



# AFCAT SOLVED PAPERS (2011-17)



WITH AFCAT 2 2017  
MEMORY BASED PAPER

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## AFCAT SYLLABUS

- **General Awareness:** History, Sports, Geography, Environment, Culture, Current Affairs, Politics, Civics, Basic Sciences, Defence, Art.
- **Verbal Ability in English:** Comprehension, Error Detection, Synonyms, Antonyms, and Testing of Vocabulary, Sentence Completion etc.
- **Numerical Ability:** Decimal Fraction, Simplification, Average, Percentage, Ratio & Proportion, and Simple Interest, Profit & Loss
- **Reasoning and Military Aptitude Test:** Verbal Skills and Spatial Ability.

### AFCAT Exam Pattern

The Air Force Common Admission Test will consist of 100 questions and each question will be of three marks. So total marks for all questions will be 300. As far as negative marking is concerned, there is one-third negative marking in AFCAT exam. For every wrong answer, 1 mark will be deducted as penalty.

### AFCAT paper has of four sections:

- General Awareness
- Verbal Ability
- Numerical Ability
- Reasoning & Military Aptitude Test

There will be Multiply Choice Based Questions of 3 marks each. The candidates will be penalized in the form of deduction of 1 marks for every wrong answers attempted by them. Three wrong answers will take away one correct answer.

## AFCAT 2017 - II – SOLVED PAPER[Memory Based]

1. Ratio of boys and girls in a school is 3:2. If 20% boys and 25% girls have scholarships. What's the total percentage of students who have scholarship?  
(a) 20 (b) 22  
(c) 24 (d) 26
2. A is thrice efficient than B. A takes 40 days less than B to complete a work. If they both work together. How many days it will take to finish the work?  
(a) 15 days (b) 12 days  
(c) 18 days (d) 10 days
3. A train cover a tunnel 90 km/hr. in 36 sec and other train which is 100m shorter at 45 km/hr. How much time will it take to go through the Tunnel?  
(a) 60 sec (b) 90 sec  
(c) 120 sec (d) 64 sec
4. A and B can finish a work in 12 days, B and C can finish in 15 days, A and C can finish in 20 days. If they all work together. How many days?  
(a) 10 days (b) 5 days  
(c) 15 days (d) 25 days
5. A 40% of number exceeds 25% of it by 53. What is the number?  
(a) 352 (b) 286  
(c) 353 (d) 223
6. Average temperature on Tuesday, Wednesday, and Thursday is 38 degree. Average temperature on Wednesday, Thursday and Friday is 37 degree and temperature on Friday is 39 degree. What is the temperature on Tuesday?  
(a) 28 degree (b) 32 degree  
(c) 42 degree (d) 36 degree
7. Two watches of Rs.560 one sold at 15% profit and another at 10% loss. Person suffers no loss and no profit condition. Then calculate the price of both the watches.  
(a) Rs.224 & Rs.336 (b) Rs.220 & Rs.340  
(c) Rs.240 & Rs.320 (d) Rs.260 & Rs.300
8. A spends  $\frac{1}{3}$  of his income on rent and from remaining  $\frac{1}{4}$  on food,  $\frac{1}{5}$  on movie, he left with savings of Rs.1760. Find his total income.  
(a) Rs.8123 (b) Rs.4800  
(c) Rs.6049 (d) Rs.5045
9. If there is a ratio 12:13, then 20 get subtracted from both, then the ratio is 2:3 what the numbers are?  
(a) 24, 26 (b) 48, 52  
(c) 36, 39 (d) 60, 65
10. A train takes 18 sec to cross a man running at a speed of 6km/s. How much time it takes to cross a person running at 9km/s?  
(a) 15s (b) 12s  
(c) 21s (d) 9s
11. A train crosses a man standing on 150m platform in 10sec and crosses the platform consequently in 22 sec. Find the length of the train.  
(a) 220 m (b) 70 m  
(c) 90 m (d) 180 m
12.  $\frac{1}{5}$  tank is full and if 22l fuel poured in then  $\frac{3}{4}$  tank is full, then find the capacity of tank.  
(a) 60l (b) 50l  
(c) 40l (d) 30l
13. A person distributes his pens among four friends A, B, C and D in the ratio  $\frac{1}{3} : \frac{1}{4} : \frac{1}{5} : \frac{1}{6}$ . What is the minimum number of pens that the person should have?  
(a) 57 (b) 60  
(c) 53 (d) 66
14. A 75m long train passes a person running at 6 km/h in 18s and another person in 22s. Find the average speed of the train.  
(a) 8.9 m/s (b) 5.7 m/s  
(c) 1.2 m/s (d) 3.8 m/s
15. A sum is lent for 4 years on SI. Had he lent for 2% more he would have earned more Rs.56. Find the sum.  
(a) Rs.756 (b) Rs.644  
(c) Rs.700 (d) Rs.556
16. Where is Lothal located?  
(a) Gujarat (b) Madhya Pradesh  
(c) Andhra Pradesh (d) Manipur
17. Which movie won the Oscar Award in 2017 for best picture?  
(a) Spotlight (b) Manchester by the sea  
(c) Hidden Figures (d) Moonlight
18. Which navy ship was decommissioned in 2017?  
(a) INS Mumbai (b) INS Viraat  
(c) INS Vikrant (d) INS Khukri
19. What is the other name of Sahyadri?  
(a) Western Ghats (b) Eastern Ghats

- (c) Northern Ghats (d) Southern Ghats
- 20.** Where Mahatma Gandhi started his first Satyagraha in India?  
 (a) Lahore (b) Kanpur  
 (c) Champaran (d) Porbander
- 21.** Who got Nobel Prize for 'The Old Man and the Sea'?  
 (a) Walt Whitman (b) Mark Twain  
 (c) Ernest Hemingway (d) Toni Morrison
- 22.** The most famous player Mr. Michael Ferreira is related to which sport?  
 (a) Squash (b) Snooker  
 (c) Chess (d) Billiards
- 23.** Jeev Milkha Singh related to which sport?  
 (a) Golf (b) Bowling  
 (c) Table Tennis (d) Swimming
- 24.** Thomas trophy related to which sport?  
 (a) Volley Ball (b) Basket Ball  
 (c) Boxing (d) Badminton
- 25.** Where is the headquarters of WHO located?  
 (a) New York (b) Geneva  
 (c) Paris (d) Rome
- 26.** Prairies grasslands are situated in which country?  
 (a) Australia (b) South America  
 (c) North America (d) Central Asia
- 27.** Who was awarded as best cricketer in the year 2016?  
 (a) Sachin Tendulkar (b) Virat Kohli  
 (c) Ravichandran Ashwin (d) Steve Smith
- 28.** How many players are there in the court for a basketball team?  
 (a) Nine (b) Eleven  
 (c) Seven (d) Five
- 29.** Which state won Vijay Hazare Trophy in 2016-17?  
 (a) Tamil Nadu (b) Bihar  
 (c) Karnataka (d) Andhra Pradesh
- 30.** Which one among the following is the capital of Syria?  
 (a) Beirut (b) Damascus  
 (c) Maseru (d) Seoul
- 31.** P.V. Sindhu defeated whom in India Open Super Series in April 2017?  
 (a) Carolina Marin (b) Saina Nehwal  
 (c) Ashwini Ponnappa (d) Jwala Gutta
- 32.** Who was the Defense Secretary during Indo-China war 1962?  
 (a) V. K. Krishna Menon (b) Baldev Singh  
 (c) Yashwantrao Chavan (d) Swaran Singh
- 33.** Where is the headquarters of UNESCO located?  
 (a) Paris (b) Geneva  
 (c) Brazil (d) New York
- 34.** Who proposed the Preamble before the Drafting Committee of the Constitution?  
 (a) Ambedkar (b) Jawaharlal Nehru  
 (c) Mahatma Gandhi (d) None of these
- 35.** International Date Line passes through which strait?  
 (a) Palk Strait (b) Torres Strait  
 (c) Cook Strait (d) Bering Strait
- 36.** Who is the present chief of the Air staff in India?  
 (a) Birender Singh (b) Arup Raha  
 Dhanoa (c) Anil Tipnis (d) Pradeep Vasant Naik
- 37.** The 2018 Asian Games will be hosted by which country?  
 (a) China (b) Indonesia  
 (c) Japan (d) South Korea
- 38.** Keoladeo Ghana National Park is located in which place?  
 (a) Bihar (b) Maharashtra  
 (c) Mizoram (d) Rajasthan
- 39.** Who was the first Deputy Prime Minister of India?  
 (a) Charan Singh (b) Morarji Desai  
 (c) Sardar Vallabhbhai Patel (d) Jagjivan Ram
- 40.** Who was the author of the book 'Animal farm'?  
 (a) Charles Dickens (b) Oscar Wilde  
 (c) George Orwell (d) Lewis Carroll
- 41.** Razia sultan belongs to which dynasty?  
 (a) Chalukya Dynasty (b) Slave Dynasty  
 (c) Maurya Dynasty (d) Gupta Dynasty
- 42.** Sattriya Nritya dance belongs to which state?  
 (a) Assam (b) Goa  
 (c) Kerala (d) Bihar
- 43.** Tehri dam is located on which river?  
 (a) Brahmaputra (b) Bhagirathi  
 (c) Narmada (d) Tapti
- 44.** Who won the Nobel Peace Prize Award in 2016?  
 (a) Malala Yousafzai (b) Leymah Gbowee  
 (c) Barack Obama (d) Juan Manuel Santos
- 45.** Which country won the Kabaddi World Cup 2016?

- (a) Iran (b) Japan  
(c) India (d) Australia
46. Satpura Range is located in which state?  
(a) Andhra Pradesh (b) Haryana  
(c) Jharkhand (d) Gujarat
47. Cue and Cannon belong to which sports?  
(a) Billiards/Snooker (b) Snooker/Golf  
(c) Billiards/Tennis (d) Badminton/Snooker
48. Which one among the following is the most abundant element on the Earth?  
(a) Hydrogen (b) Oxygen  
(c) Nitrogen (d) Sodium
49. Who among the following was awarded Bharat Ratna, before he died?  
(a) K. Kamaraj (b) Lal Bahadur Shastri  
(c) Jawaharlal Nehru (d) Vinoba Bhave
50. The first meeting of Indian national congress was held in which place?  
(a) Pune (b) Jaipur  
(c) Mumbai (d) Varanasi
51. Who is the Chairman of Rajya Sabha?  
(a) Hamid Ansari (b) Venkaiah Naidu  
(c) Krishan Kant (d) None of these
52. Who is the Ambassador of Women Cricket World Cup 2017?  
(a) Virat Kohli (b) Kamal Haasan  
(c) Rajinikant (d) Sachin Tendulkar
53. Why Gandhiji decided to withdraw the Non-cooperation movement?  
(a) Jallian Wallah Bagh (b) Non-compliance  
(c) Chauri chaura (d) Violence
54. What is the approximate degree of Tropic of Capricorn?  
(a) 23.5° North (b) 23.5° South  
(c) 23.5° West (d) 23.5° East
55. Which equipment is used to measure Blood Pressure?  
(a) Ventilator (b) Thermometer  
(c) Sphygmomanometer (d) Barometer
56. Upanishads are \_\_\_\_ books  
(a) Medical (b) Philosophy  
(c) Social (d) Law
57. Pampas Grasslands are located in which country?  
(a) South America (b) New Zealand  
(c) Africa (d) North America
58. Which among following is the capital of Uzbekistan?

- (a) Fukuoka-shi (b) Bishkek  
(c) Tashkent (d) Astana
59. Caddie and Bogey are related to which sports?  
(a) Climbing (b) Boxing  
(c) Golf (d) Swimming

60. Baglihar dam is built across which river?  
(a) Ravi (b) Chenab  
(c) Beas (d) Jhelum

**Directions (Q.No.61–68): Which word or words explains the meaning of the following idioms:-**

**61. Living hand to mouth**

- (a) To come up to expectations (b) To present a counter argument  
(c) To go to bed (d) To live on only basic necessities

**62. To run riot**

- (a) To get out of control (b) To keep something away  
(c) To share information that was previously concealed (d) To happen very rarely

**63. Paint the town red**

- (a) To deceive someone into thinking well of them (b) To go out and enjoy oneself flamboyantly  
(c) To lessen someone's force or authority (d) I don't know

**64. Breathing down his neck**

- (a) To further a loss with indignity (b) To take on a task that is way to big  
(c) To monitor someone closely (d) To work late into the night

**65. Eat his heart out**

- (a) To show dislike through facial expressions (b) To be sorrowful  
(c) To be kind and compassionate to someone in distress (d) To find a source of great troubles and problems

**66. Sitting on the fence**

- (a) To reveal the secret carelessly (b) To initiate a social conversation  
(c) To make peace (d) To delay making a decision

**67. The gift of the gab**

- (a) Ability to speak easily and fluently (b) To apologize humbly

- (c) Something that is easy to understand or do
- (d) Something that happens very rarely

**68. Meet one's Waterloo**

- (a) To ignore
- (b) To do the correct thing
- (c) To experience a final and resounding defeat
- (d) To be exactly right about something

**Directions (Q. No. 69-72): Find the odd one out:-**

**69.**

- (a) Physics
- (b) Chemistry
- (c) Botany
- (d) Geography

**70.**

- (a) Tomato
- (b) Potato
- (c) Cucumber
- (d) Peas

**71.**

- (a) Lamb
- (b) Cot
- (c) Bitch
- (d) Farrow

**72.**

- (a) Pharynx
- (b) Alveoli
- (c) Auricle
- (d) Bronchiole

**Directions (Q. No. 73-80): Choose the word which is nearly opposite in meaning to the given word:-**

**73. Paucity**

- (a) Famine
- (b) Rarity
- (c) Plenty
- (d) Poverty

**74. Abdicate**

- (a) Challenge
- (b) Abandon
- (c) Quit
- (d) Yield

**75. Audacious**

- (a) Bold
- (b) Uncurbed
- (c) Nervy
- (d) Timid

**76. Candid**

- (a) Devious
- (b) Bluff
- (c) Equal
- (d) Blunt

**77. Obstinate**

- (a) Resolved
- (b) Obdurate
- (c) Amenable
- (d) Steadfast

**78. Unconscionably**

- (a) Greatly
- (b) Moderately
- (c) Inordinately
- (d) Strikingly

**79. Ephemeral**

- (a) Fleeting
- (b) Episodic
- (c) Fugitive
- (d) Enduring

**80. Profane**

- (a) Religious
- (b) Abusive
- (c) Coarse
- (d) Idolatrous

**Directions (Q. No. 81-83): In each of the following questions, find out the alternative which will replace the question mark.**

**81. Horse: foal:: dog : ?**

- (a) Pup
- (b) Fawn
- (c) Squab
- (d) Calf

**82. IRAN: MAJLIS; FINLAND: ?**

- (a) Knesset
- (b) Eduskunta
- (c) Diet
- (d) Kongreso

**83. Oil: Seed: Butter: ?**

- (a) Cow
- (b) Ghee
- (c) Milk
- (d) Goat

**Directions (Q. No. 84-90): Choose the correctly spelt word:-**

**84.**

- (a) Effloresence
- (b) Eflorescence
- (c) Efflorescence
- (d) Efflorescene

**85.**

- (a) Liaison
- (b) Laison
- (c) Liason
- (d) Liasion

**86.**

- (a) Enterpreneur
- (b) Entreprneur
- (c) Entrepreneur
- (d) Entrepreneur

**87.**

- (a) Equinimity
- (b) Equanmity
- (c) Equanimity
- (d) Equenimity

**88.**

- (a) Lackadaisical
- (b) Lackadasical
- (c) Lackedaisical
- (d) Lackadaiscl

**89.**

- (a) Satelite
- (b) Satellite
- (c) Satelliite
- (d) Satillite

**90.**

- (a) Embarassment
- (b) Emberrassment
- (c) Embarasment
- (d) Embarrassment

**Directions (Q. No. 91-96): Choose the word which is nearest in meaning to the given word:-**

**91. Precarious**

- (a) Definite
- (b) Delicate
- (c) Stable
- (d) Guarded

**92. Blithe**

- (a) Misfortune
- (b) Heavyhearted
- (c) Unconcerned
- (d) Imperious

**93. Taciturn**

- (a) Recompense
- (b) Disdainful
- (c) Reticent
- (d) Desire

**94. Ameliorate**

- (a) Abate (b) Keen  
(c) Enhance (d) Alleviate

95. Hagggle

- (a) Zestful (b) Concur  
(c) Quibble (d) Foster

96. Deceitful

- (a) Deceptive (b) Valid  
(c) Squalor (d) Trivial

**Directions (Q. No.97-100):** Each of these questions given below contains three elements. These elements may or may not have some inter-linkage. Each group of elements may fit into one of these diagrams at (a), (b), (c) or (d). You have to indicate the group of elements which correctly fits into the diagrams.

97. Parents, Friends, Uncles



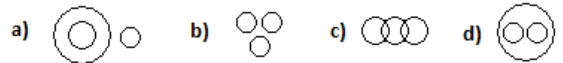
98. Doctor, Engineer, Person



99. Grams, Beans, Legumes



100. Criminals, Thieves, Lawyers



1. Sol: (b)

If we assume no. of student=100

Number of boys=60

And number of girls=40

Given that 20% of boys and 25% of girls are getting scholarship.

So, 20% of 60 =12

And 25% of 40 =10

So, total number of students who are scholarship holders = 12+10= 22.

2. Sol: (a)

Ratio of times taken by A and B = 1 : 3

The time difference is (3 - 1) 2 days, while B take 3 days and A takes 1 day.

If the difference of time is 2 days, B takes 3 days.

If the difference of time is 40 days, B takes

$$\left(\frac{3}{2} \times 40\right) = 60 \text{ days}$$

So, A takes 20 days to do the work.

$$A's \text{ 1 day's work} = \frac{1}{20}$$

$$B's \text{ 1 day's work} = \frac{1}{60}$$

$$(A + B)'s \text{ 1 day's work} = \left(\frac{1}{20} + \frac{1}{60}\right) = \frac{4}{60} = \frac{1}{15}$$

Therefore, A and B together can do the work in 15 days

3. Sol: (d)

Speed of the first train = 90 km/hr = 90 ×

$$\left(\frac{5}{18}\right) m/sec = 25 m/sec$$

## Hints & Solutions

Then the length of the train is,

$$\therefore L = 25 \times 36 = 900 \text{ m} \dots (1)$$

$$\text{Speed of the second train} = 45 \frac{km}{hr} = 45 \times \left(\frac{5}{18}\right) = \frac{25}{2} m/sec.$$

Length of the second train is 100 m shorter than the first train.

So, length of the second train is = 900 - 100 = 800m

$$\text{Time taken to cover the tunnel by second train} = 800 \times \frac{2}{25} = 64 \text{ sec}$$

4. Sol: (a)

$$(A + B)'s \text{ 1 day work} = \frac{1}{12} \dots (i)$$

$$(B + C)'s \text{ 1 day work} = \frac{1}{15} \dots (ii)$$

$$(A + C)'s \text{ 1 day work} = \frac{1}{20} \dots (iii)$$

Adding (i), (ii) and (iii)

$$(A + B) + (B + C) + (A + C) = \left(\frac{1}{12} + \frac{1}{15} + \frac{1}{20}\right)$$

$$2(A + B + C) = \frac{12}{60}$$

$$2(A + B + C) = \frac{1}{5}$$

$$A + B + C = \frac{1}{10}$$

$$\text{Hence, } (A+B+C)'s \text{ 1 day work} = \frac{1}{10}$$

So, it will take 10 days for them to do the work together.

5. Sol: (c)

$$\text{Required number} = \frac{53}{40-25} \times 100 = 353.33 \approx 353$$



**6. Sol: (c)**

(Tuesday + Wednesday + Thursday)/3=38  
 Tuesday + Wednesday + Thursday= 114 ... (1)  
 (Wednesday + Thursday + Friday)/3=37  
 (Wednesday + Thursday + Friday) =111 ... (2)  
 Given Friday is 39.

Then, (1) - (2) => Tuesday - Friday = 114-111=3  
 So, Tuesday - 39 = 3  
 Tuesday = 3+39 = 42 degree.

**7. Sol: (a)**

Let the cost price be x and y.

$$x + y = 560 \dots (i)$$

$$y = 560 - x$$

$$\text{Selling price of one watch} = \frac{115x}{100} \text{ (sold at 15\% gain)}$$

$$\text{Selling price of another watch} = \frac{90y}{100} \text{ (sold at 10\%}$$

loss)

$$\frac{115x}{100} + \frac{90(560-x)}{100} = 560$$

$$\frac{115x + 50400 - 90x}{100} = 560$$

$$25x = 56000 - 50400$$

$$25x = 5600$$

$$x = 224$$

$$y = 560 - 224 = 336$$

Cost price of the watches are Rs.224 and Rs.336.

**8. Sol: (b)**

Suppose, A's total income is Rs.x

A spends 1/3 of his income on rent.

$$\text{Remaining} = x - \frac{1}{3}x = \frac{2}{3}x$$

From remaining he spend 1/4 on food 1/5 on movie.

So, money spent on food and movie

$$= \frac{1}{4} \text{ of } \frac{2}{3}x + \frac{1}{5} \text{ of } \frac{2}{3}x = \frac{1}{6}x + \frac{2}{15}x$$

$$= \frac{5x+4x}{30} = \frac{9x}{30} = \frac{3x}{10}$$

$$\text{Remaining money in salary} = x - \left(\frac{1}{3} + \frac{3}{10}\right)x$$

$$= x - \left(\frac{19}{30}\right)x = \frac{30-19}{30}x = \frac{11x}{30}$$

$$\text{Now, } \frac{11x}{30} = 1760$$

$$\Rightarrow x = 4800$$

Hence, A's total income is Rs.4800

**9. Sol: (a)**

Let the numbers be 12x and 13x

$$\frac{12x - 20}{2} = \frac{2}{3}$$

$$\frac{13x - 20}{3} = \frac{2}{3}$$

$$\Rightarrow 3(12x - 20) = 2(13x - 20)$$

$$\Rightarrow x = 2$$

Hence, the numbers are 24 & 26

**10. Sol: (b)**

Speed of the train = 6km/s

Train takes 18s to cross a man

Length of the train = 6 × 18 = 108m

Time takes to cross a person running at 9km/s = 108/9 = 12s

**11. Sol: (d)**

Length of the platform = 150m

Length of the train = l

(150 + l) covered in 22s.

$$\text{Speed of the train, } = \frac{150}{10} = 15m/s$$

$$15 = \frac{150 + l}{22}$$

$$150 + l = 330$$

$$l = 330 - 150 = 180m$$

Therefore the length of the train is 180m.

**12. Sol: (c)**

Let x = tank capacity

$$\frac{1}{5}x + 22 = \frac{3}{4}x$$

$$22 = \frac{11}{20}x$$

$$x = 40 \text{ litres.}$$

**13. Sol: (a)**

The ratio among A, B, C and D =  $\frac{1}{3} : \frac{1}{4} : \frac{1}{5} : \frac{1}{6}$

$$\text{On rearranging the ratio} = \frac{60}{3} : \frac{60}{4} : \frac{60}{5} : \frac{60}{6} \\ = 20 : 15 : 12 : 10$$

So number of pens can be minimum when the common ratio is 1.

So minimum number of pen = 20+ 15 + 12 + 10=57

**14. Sol: (d)**

Speed = Distance/Time

$$\frac{75}{18} = 4.16 \text{ m/s}$$

$$\frac{18}{75} = 3.41 \text{ m/s}$$

$$\text{Average speed of the train} = \frac{4.16+3.41}{2}$$

$$= \frac{7.57}{2} = 3.785 \text{ m/s}$$

**15. Sol: (c)**

Let the principle amount be Rs.P.

Number of years = 4

Let the rate of interest be x%.

$$SI = \frac{PNR}{100} = \frac{P \times 4 \times x}{100}$$

If he had lent for 2% more he would have earned more Rs.56

$$\Rightarrow \frac{P \times 4 \times (x+2)}{100} - \frac{P \times 4 \times x}{100} = 56$$

$$\Rightarrow \frac{4Px+8P}{100} - \frac{4Px}{100} = 56$$

$$\Rightarrow \frac{8P}{100} = 56$$

$$\Rightarrow 8P = 5600$$

$$\Rightarrow P = \text{Rs.}700$$

Therefore the sum is Rs.700

**16. Sol: (a)**

Lothal is one of the most prominent cities of the ancient Indus valley civilization, located in the Bhal region of the modern state of Gujarat. Lothal was surrounded by a massive brick wall, which was probably used for flood protection.

**17. Sol: (d)**

Moonlight took home Oscars 2017 Best Picture honors after a mishap had La La Land being declared the winner by presenters Warren Beatty and Faye Dunaway. Moonlight is a 2016 American coming-of-age drama film written and directed by Barry Jenkins, based on Tarell Alvin McCraney's unpublished semi-autobiographical play In Moonlight Black Boys Look Blue.

**18. Sol: (b)**

INS Viraat was a Centaur-class aircraft carrier of the Indian Navy. INS Viraat was the flagship of the Indian Navy before INS Vikramaditya was commissioned in 2013.

**19. Sol: (a)**

Western Ghats (also known as Sahyadri, meaning - The Benevolent Mountains) is a mountain range that runs parallel to the western coast of the Indian peninsula, located entirely in India.

**20. Sol: (c)**

The Champaran Satyagraha of 1917, in the Champaran district of Bihar, India during the period of the British Raj, was the first Satyagraha movement inspired by Mohandas Gandhi and a major revolt in the Indian Independence Movement. Another important Satyagraha just after this revolt was Kheda Satyagraha.

**21. Sol: (c)**

The Nobel Prize in Literature 1954 was awarded to Ernest Hemingway for his mastery of the art of narrative, most recently demonstrated in "The Old Man and the Sea", and for the influence that he has exerted on contemporary style.

**22. Sol: (d)**

Michael Ferreira, nicknamed "The Bombay Tiger", is notable amateur player of English Billiards from India, and a three-time Amateur World Champion.

**23. Sol: (a)**

Jeev Milkha Singh (born 15 December 1971) is an Indian Professional Golfer who became the first player from India to join the European Tour in 1998. He has won four events on the European Tour, becoming the most successful Indian on tour.

**24. Sol: (d)**

The Thomas Cup, sometimes called the World Men's Team Championships, is an international badminton competition among teams representing member nations of the Badminton World Federation (BWF), the sport's global governing body.

**25. Sol: (b)**

The World Health Organization (WHO) is a specialized agency of the United Nations that is concerned with international public health. It was established on 7 April 1948, headquartered in Geneva, Switzerland.

**26. Sol: (c)**

Temperate grassland regions include the Pampas of Argentina, southern Brazil and Uruguay as well as the steppes of Eurasia. Lands typically referred to as "Prairie" tend to be in North America.

**27. Sol: (c)**

Ravichandran Ashwin has become the third Indian player and 12th player overall to win the prestigious Sir Garfield Sobers Trophy after being named as the ICC Cricketer of the Year 2016.

**28. Sol: (d)**

Basketball is played with two teams, with 5 players from each team on the court at one time. The maximum number of players on the bench differs by league. In international play, a maximum of 7 players are allowed on the bench, resulting in a roster of 12 players.

**29. Sol: (a)**

2016–17 Vijay Hazare Trophy was the 15th season of the Vijay Hazare Trophy, a List A cricket tournament in India. It was contested by the 28 domestic cricket teams of India. Tamil Nadu won the tournament, beating Bengal by 37 runs in the final.

**30. Sol: (b)**

Damascus, one of the world's oldest continuously inhabited cities, is the capital city of Syria.

**31. Sol: (a)**

P.V. Sindhu produced a brilliant performance to clinch the India Open title after beating Olympic

champion Carolina Marin 21-19, 21-16 in the summit clash.

**32. Sol: (a)**

Vengalil Krishnan Krishna Menon (3 May 1896 – 6 October 1974) was an Indian nationalist, diplomat and politician. He was the Defense Secretary during Indo-China war.

**33. Sol: (a)**

The United Nations Educational, Scientific and Cultural Organization (UNESCO) is a specialized agency of the United Nations (UN) based in Paris.

**34. Sol: (b)**

Jawaharlal Nehru was the first Prime Minister of India and a central figure in Indian politics before and after independence.

**35. Sol: (d)**

Wrangel Island lies directly on the meridian at 71°32'N 180°0'E, also noted as 71°32'N 180°0'W. It then passes through the Bering Strait between the Diomed Islands at a distance of 1.5 kilometres (0.93 mi) from each island at 168°58'37" W.

**36. Sol: (a)**

Air Chief Marshal Birender Singh Dhanoa is the 25th Chief of the Air Staff of the Indian Air Force. He assumed the post on 31 December 2016 after Air Chief Marshal Arup Raha retired.

**37. Sol: (b)**

Indonesia was approved as the host of the Games by Olympic Council of Asia executive board on 19 September 2014. They will host the Games in 2018 rather than the originally planned 2019 to avoid conflict with the Indonesian presidential election.

**38. Sol: (d)**

Keoladeo National Park, located in Bharatpur, the State of Rajasthan, is an important wintering ground of Palaearctic migratory waterfowl and is renowned for its large congregation of non-migratory resident breeding birds.

**39. Sol: (c)**

The first Deputy Prime Minister of India was Sardar Vallabhbhai Patel, who was also home minister in Jawaharlal Nehru's cabinet.

**40. Sol: (c)**

Animal Farm is an allegorical novella by George Orwell, first published in England on 17 August 1945. According to Orwell, the book reflects events leading

up to the Russian Revolution of 1917 and then on into the Stalinist era of the Soviet Union.

**41. Sol: (b)**

The first women to sit on the Delhi throne Razia Begum, sultan name, Razia al-Din, throne name Jalalat-ud-Din Razia, usually referred to in history as Razia Sultan who was the Sultan of Delhi from 10 November 1236 – 14 October 1240.

**42. Sol: (a)**

Sattriya is a classical Indian dance that originated in its eastern state of Assam.

**43. Sol: (b)**

The Tehri Dam is the highest dam in India and one of the highest in the world. It is a multi-purpose rock and earth-fill embankment dam on the Bhagirathi River near Tehri in Uttarakhand, India. It is the primary dam of the THDC India Ltd and the Tehri hydroelectric complex.

**44. Sol: (d)**

Juan Manuel Santos Calderón, GColIH is a Colombian politician and the President of Colombia, in office since 2010. He was the sole recipient of the 2016 Nobel Peace Prize.

**45. Sol: (c)**

The 2016 Kabaddi World Cup, the third standard-style Kabaddi World Cup, was an International Kabaddi Tournament governed by the International Kabaddi Federation, contested from 7 to 22 October 2016 in Ahmedabad, India. Twelve countries had competed in the tournament. The tournament was won by India, who defeated Iran 38-29 in the championship game to win their third Kabaddi World Cup.

**46. Sol: (d)**

The Satpura Range is a range of hills in central India. The range rises in eastern Gujarat state running east through the border of Maharashtra and Madhya Pradesh to the east till Chhattisgarh.

**47. Sol: (a)**

Cue and Cannon belongs to Billiards/Snooker games.

**48. Sol: (b)**

The most abundant element in the Earth's crust is oxygen, making up 46.6% of the Earth's mass. Silicon is the second most abundant element (27.7%), followed by aluminum (8.1%), iron (5.0%), calcium (3.6%), sodium (2.8%), potassium (2.6%) and magnesium (2.1%).

**49. Sol: (c)**

On July 15th 1955, Pandit Jawaharlal Nehru, India's first Prime Minister, was awarded the Bharat Ratna (India's highest civilian honour) by then President Rajendra Prasad.

**50. Sol: (c)**

Due to a cholera outbreak there it was moved to Bombay. Hume organized the first meeting in Bombay with the approval of the Viceroy Lord Dufferin. Womesh Chandra Bonnerjee was the first president of the Congress; the first session was attended by 72 delegates.

**51. Sol: (b)**

The Vice-President of India (currently, Venkaiah Naidu) is the ex-officio Chairman of the Rajya Sabha, who presides over its sessions. The Deputy Chairman, who is elected from amongst the house's members, takes care of the day-to-day matters of the house in the absence of the Chairman.

**52. Sol: (d)**

Indian cricketing legend Sachin Tendulkar was announced as the official ambassador of Women's Cricket World Cup 2017 by the International Cricket Council (ICC).

**53. Sol: (c)**

The Non-cooperation movement was withdrawn because of the Chauri Chaura incident. Although he had stopped the national revolt single-handedly, on March 10, 1922, Gandhi was arrested.

**54. Sol: (b)**

The Tropic of Capricorn is the circle marking the latitude 23.5 degrees south where the sun is directly overhead at noon on December 21, the beginning of winter in the northern hemisphere. The equator is the circle where the Sun is directly overhead at noon on the equinoxes.

**55. Sol: (c)**

A Sphygmomanometer, blood pressure meter, blood pressure monitor, or blood pressure gauge is a device used to measure blood pressure, composed of an inflatable cuff to collapse and then release the artery under the cuff in a controlled manner, and a mercury or mechanical manometer to measure the pressure.

**56. Sol: (b)**

The Upanishads are a collection of texts of religious and philosophical nature, written in India probably between c. 800 BCE and c. 500 BCE, during a time

when Indian society started to question the traditional Vedic religious order.

**57. Sol: (a)**

The Pampas of South America are a grassland biome. They are flat, fertile plains that covers an area of 300,000 sq. miles or 777,000 square kilometers, from the Atlantic Ocean to the Andes Mountains. It is found primarily in Argentina and extends into Uruguay.

**58. Sol: (c)**

Tashkent is the capital city of Uzbekistan. It has a population of 1,978,028, and is located on a latitude of 41.26 and longitude of 69.22. Tashkent is also the political center of Uzbekistan, which is considered a Republic, and home to its Executive head of state.

**59. Sol: (c)**

Caddie and Bogey are related to Golf games.

**60. Sol: (b)**

Baglihar Dam also known as Baglihar Hydroelectric Power Project, is a run-of-the-river power project on the Chenab River in the southern Doda district of the Indian state of Jammu and Kashmir.

**61. Sol: (d)**

The idiom "Living hand to mouth" means to live on only basic necessities.

**62. Sol: (a)**

The idiom "To run riot" means to get out of control.

**63. Sol: (b)**

The idiom "Pain the town red" means to go out and enjoy oneself flamboyantly.

**64. Sol: (c)**

The idiom "Breathing down his neck" means to monitor someone closely.

**65. Sol: (b)**

The idiom "Eat his heart out" means to be sorrowful.

**66. Sol: (d)**

The idiom "Sitting on the fence" means to delay making a decision.

**67. Sol: (a)**

The idiom "The gift of the gab" means the ability to speak easily and fluently.

**68. Sol: (c)**

The idiom "Meet one's waterloo" means to experience a final and resounding defeat.

**69. Sol: (d)**

All except Geography are Science subjects.

**70. Sol: (b)**

All except Potato can be eaten raw.

**71. Sol: (c)**

All except Bitch are young ones of animals, while bitch is a female dog.

**72. Sol: (c)**

All except Auricle are parts of lungs, while auricle is a part of the heart.

**73. Sol: (c)**

The best opposite for the word Paucity is "Plenty".

**74. Sol: (a)**

The best opposite for the word Abdicate is "Challenge".

**75. Sol: (d)**

The best opposite for the word Audacious is "Timid".

**76. Sol: (a)**

The best opposite for the word Candid is "Devious".

**77. Sol: (c)**

The best opposite for the word Obstinate is "Amenable".

**78. Sol: (b)**

The best opposite for the word unconscionably is "Moderately".

**79. Sol: (d)**

The best opposite for the word Ephemeral is "Enduring".

**80. Sol: (a)**

The best opposite for the word Profane is "Religious".

**81. Sol: (a)**

A baby horse is called a foal. Likewise, a baby of dog is called pup or puppy.

**82. Sol: (b)**

Majlis is the parliament name of Iran country. Likewise, Eduskunta is the parliament name of Finland country.

**83. Sol: (c)**

First one is made from the second one.

**84. Sol: (c)**

Efflorescence is the correct Spelling apart from other options.

**85. Sol: (a)**

Liaison is the correct Spelling apart from other options.

**86. Sol: (d)**

Entrepreneur is the correct Spelling apart from other options.

**87. Sol: (c)**

Equanimity is the correct Spelling apart from other options.

**88. Sol: (a)**

Lackadaisical is the correct Spelling apart from other options.

**89. Sol: (b)**

Satellite is the correct Spelling apart from other options.

**90. Sol: (d)**

Embarrassment is the correct Spelling apart from other options.

**91. Sol: (b)**

The nearest meaning of the word Precarious is "Delicate".

**92. Sol: (c)**

The nearest meaning of the word Blithe is "Unconcerned".

**93. Sol: (c)**

The nearest meaning of the word Taciturn is "Reticent".

**94. Sol: (d)**

The nearest meaning of the word Ameliorate is "Alleviate".

**95. Sol: (c)**

The nearest meaning of the word Hagggle is "Quibble".

**96. Sol: (a)**

The nearest meaning of the word Deceitful is "Deceptive".

**97. Sol: (b)**

Uncles, parents, friends are entirely different from each other.

**98. Sol: (d)**

Both engineer and doctor are persons. But, both of them are different from each other.

**99. Sol: (d)**

Grams and Beans are entirely different. But, both are Legumes.

**100. Sol: (a)**

All thieves are criminals. But, lawyers are entirely different.

## AFCAT 2017 - I – SOLVED PAPER

1. If  $A/B=4/3$ , then what is the value of  $(9A-3B)/(9A+3B)$ .  
(a)  $2/3$  (b)  $3/5$   
(c)  $1/5$  (d)  $5/9$
2. The speed of a boat in river is 8 km/hr in still water, rate of river is 2km/hr. If boat takes 3hr 12 minutes to back and fro to a place then what is distance?  
(a) 10Km (b) 6Km  
(c) 24Km (d) 15Km
3. A train 110m long running at the speed of 60km/hr, how long it will take to cross a man running in the opposite direction at the speed if 10km/hr.  
(a) 5.65 sec (b) 6.27 sec  
(c) 11.32 sec (d) 1.20 sec
4. 240 chocolates were brought at 9 per dozen, and was sold at 1 rs each, find the % loss or gain?  
(a) 24.3% loss (b) 30.57% gain  
(c) 47.3 %loss (d) 33.33% gain
5. If 50% of a number is added to 84 gives the number, what is number?  
(a) 84 (b) 134  
(c) 168 (d) 184
6. 10 years ago the average age of a family of 4 member was 24, In mean time two child born by a gap of two years, what is the age of younger child if the average age family is same as it was 10 years ago.  
(a) 3 (b) 1  
(c) 2 (d) 4
7. If a sum doubles in 4 year, how long it will take to become 4 times of sum on compound interest.  
(a) 4 (b) 8  
(c) 6 (d) 12
8. If 30% of a number is subtracted from 91 gives the same number, find the number.  
(a) 95 (b) 121  
(c) 39 (d) 70
9. If 445boys and 356 has to be divided in section of same no of students either boy or girl alone then total no of section.  
(a) 14 (b) 10  
(c) 9 (d) 5
10. A shopkeeper sell a TV 3000 on gain of 15%, he sells a different TV at loss of 10%. Over all he neither gain or loss. What is cost price or Selling Price of second TV?  
(a) 3910 (b) 3565  
(c) 4120 (d) 3725
11. Biku and mahtre fought election, Biku got 55% vote and 25% vote were declared invalid. Population of village is 6000. Find the vote given to mahtre.  
(a) 2474 (b) 3425  
(c) 1525 (d) 4500
12. A shopkeeper sold one tablet and one smartphone of 12000 each, on smartphone he lost 25%, and gained 20% on the price of tablet. What is its total loss and gain?  
(a) 31.72% (b) 45.83%  
(c) 57.34% (d) 27.51%
13. If one student got 77/100, 96/150, 103/350 in various subjects, what is the percentage average?  
(a) 45% (b) 57%  
(c) 60% (d) 65%
14. XXXA is divisible by 9, what is the least natural no at A?  
(a) 0 (b) 1  
(c) 3 (d) 6
15. Who was the first governor general of India after independence?  
(a) Jawaharlal Nehru (b) Balagangadhar tilak  
(c) C. Rajagopalachari (d) Gopal Krishna Gokhale
16. Who was the Army Chief in October 2016?  
(a) General Bipin Rawat (b) General Dalbir Singh  
(c) General Bikrarsingh (d) Deepak Kapoor
17. Name the Port made in Iran by India.  
(a) Chabahar Port (b) Gwadar Port  
(c) Port of Bandar (d) Bushire Port Mahshahr
18. Which state is the largest Production of Banana in India?  
(a) Kerala (b) Gujarat  
(c) Maharashtra (d) Tamil Nadu
19. Who defeated P.V.Sindhu in finals in Rio Olympics?  
(a) Wang yihan (b) Iris Wang  
(c) Carolina Marin (d) Kirsty Gilmour
20. Where is the Head Quarters of International court of justice located?  
(a) Geneva (b) Hague  
(c) New York (d) Paris
21. Oldest active volcano of the world?  
(a) Mayon (b) Taal

- (c) Kanlaon (d) Etna
- 22.** Who was given out first time by a third umpire in test?  
 (a) Virat Kohli (b) Sachin Tendulkar  
 (c) Saurav Ganguly (d) Virender seh wag
- 23.** Jamini Roy is related to which field?  
 (a) Painting (b) Tennis  
 (c) Cricket (d) Musician
- 24.** Which is not an inert gas –  
 (a) Xenon (b) Argon  
 (c) Hydrogen (d) Helium
- 25.** Name the port made in Pakistan by china?  
 (a) Karachi port (b) Gwadar Port  
 (c) NLC Dry Port (d) Qasim Port
- 26.** Salal project is on which river?  
 (a) Ganga (b) Waikato  
 (c) Chenab (d) Krishna
- 27.** Which is the classical dance of Kerala?  
 (a) Kathakali (b) Kuchipudi  
 (c) Dumhal (d) Baharathanatyam
- 28.** What is the score Of Dipa Kamarakar in the final round in Rio Olympics?  
 (a) 14.866 (b) 13.076  
 (c) 15.066 (d) 17.25
- 29.** Which is the oldest refinery in India?  
 (a) Haldia Refinery (b) Paradip refinery  
 (c) Barauni Refinery (d) Digboi Refinery
- 30.** The character of Aladdin belongs to which book?  
 (a) Castle Richmond (b) Arabian Nights  
 (c) The glaverings (d) Magic
- 31.** Who had become Prime Minister of India after the death of Rajiv Gandhi?  
 (a) V.P.Singh (b) Chandra Shekhar  
 (c) Charan Singh (d) P.V.Narasimha Rao
- 32.** Which is the Diamond city of the world?  
 (a) Yokohama (b) Antwerp  
 (c) Argos (d) Seoul
- 33.** Who was the first Tirthankara of Jainism?  
 (a) Vardhamaan (b) Abhinandan  
 (c) Rishabhdev (d) Arhanath
- 34.** Which Cuban racer is called the horse?  
 (a) Dayron Robles (b) Javier  
 (c) Alberto Juantorena (d) Ivan Pedroso
- 35.** Which is the highest tower in world?  
 (a) Burj Khalifa (b) Lotte World Tower  
 (c) Shanghai Tower (d) Zifeng Tower
- 36.** What is the Old name of USA?  
 (a) Colonial America (b) Thirteen Colonies  
 (c) Maryland (d) Georgia
- 37.** Name the Indian Sports person who is a member of IOC (International Olympic committee)?  
 (a) P.V. Sindhu (b) Virat Kohli  
 (c) Saina Nehwal (d) Ganguly
- 38.** Yarlung Zangbo is the name of which river?  
 (a) Brahmaputra (b) Krishna  
 (c) Godavari (d) Ganga
- 39.** Who is the First black to lead the Olympic contingent of USA in 1960 Olympics?  
 (a) Walt Bellamy (b) Jar Arnette  
 (c) Allen Kelley (d) Rafer Johnson
- 40.** Who is Satyajit ray?  
 (a) Painter (b) Film maker  
 (c) Athlete (d) Singer
- 41.** Who was the National Security Adviser (NSA) of USA in 2016?  
 (a) Michael Flynn (b) Samuel R. Berger  
 (c) Susan Rice (d) Stephen Hadley
- 42.** Who was the Navy Chief in Oct 2016?  
 (a) Robin K Dhowan (b) Sunil Lanba  
 (c) Sureesh Mehta (d) Arun Prakash
- 43.** Which religion is founded by Akbar?  
 (a) Bahai (b) Taoism  
 (c) Din-e-Ilahi (d) Shintoism
- 44.** Which PM gave mandal commission?  
 (a) Jawaharlal Nehru (b) Gulzarilal Nanda  
 (c) Indhira Gandhi (d) Morarji Desai
- 45.** In which South Korean city Asian games 2014 was conducted?  
 (a) Andong (b) Incheon  
 (c) Cheonan (d) Dangjin
- 46.** Who was the 23<sup>rd</sup> Tirthankara of Jainism?  
 (a) Parsva Natha (b) Rishabha  
 (c) Vasupujya (d) Malinath
- 47.** Who wrote padmavat?  
 (a) Jai Shankar Prasad (b) Rani Padmini  
 (c) Malik Muhammad (d) Tulsidas Jayasi
- 48.** Which is deepest trench in the world?  
 (a) Tonga Trench (b) Galathea Depth  
 (c) Kuril-Kamchatka (d) Mariana Trench Trench
- 49.** Macedonian empire belongs to which age?  
 (a) Stone Age (b) Iron Age  
 (c) Middle Age (d) Neolithic Age

50. Who was the first governor general of India?

- (a) Charles Cornwallis (b) George Barlow  
(c) Warren Hastings (d) John Shore

51. What is the Old name of Myanmar?

- (a) Rangoon (b) Yangon  
(c) Bagan (d) Burma

52. What is sin bin in ice hockey?

- (a) To leave the playing area for a short period of time for an Offence.  
(b) Reward given to a player for his good performance.  
(c) Extra Points given to a team.  
(d) Eliminate from the game.

53. Who was the First National Security Advisor (NSA) of India?

- (a) M.K.Narayanan (b) Ajit Doval  
(c) Brajesh Mishra (d) Shivshankar Menon

**Directions (Q. No. 54-59): In each of the following questions find out the alternative which will replace the question mark.**

54. Kandla : Gujarat :: Kochi : ?

- (a) Andhra Pradesh (b) Karnataka  
(c) Kerala (d) Tamil Nadu

55. Hemoglobin: Iron::Chlorophyll:?

- (a) Copper (b) Magnesium  
(c) Cobalt (d) Calcium

56. Elephant : Howdah :: Horse : ?

- (a) Saddle (b) Hump  
(c) Hoof (d) Loange

57. Aryabhata : Mathematician :: Varahamihira : ?

- (a) Physician (b) Astronomer  
(c) Scientist (d) Architect

58. Assam : bihu :: Kerala : ?

- (a) Garba (b) Dalkhai  
(c) Kummi (d) Padayani

59. Ruby : Red :: Sapphire : ?

- (a) Indigo (b) Green  
(c) Blue (d) Violet

**Direction (Q. No. 60 -64): In each of the following questions, four words have been given out of which three are alike in some manner, while the fourth one is different. Choose the word which is different from the rest.**

60. Cabbage, sweet gourd, Pumpkin, Brinjal

- (a) Cabbage (b) sweet gourd  
(c) Pumpkin (d) Brinjal

61. May, August, December, July

- (a) August (b) July

(c) May (d) December

62. Igloo, Yatch, Canoe, Dinghy

- (a) Dinghy (b) Igloo  
(c) Canoe (d) Yatch

63. Leo, Equator, Scorpio, Cancer

- (a) Scorpio (b) Leo  
(c) Cancer (d) Equator

64. Yellow, Violet, Green, Black

- (a) Black (b) Violet  
(c) Yellow (d) Green

**Directions (Q. No.65-68): Each of these questions given below contains three elements. These elements may or may not have some inter-linkage. Each group of elements may fit into one of these diagrams at (a), (b) (c) or (d). You have to indicate the group of elements which correctly fits into the diagrams.**

65. Practice, Exam, Question



66. Train, Bus, Traveler



67. Rabi crops, Paddy, Wheat

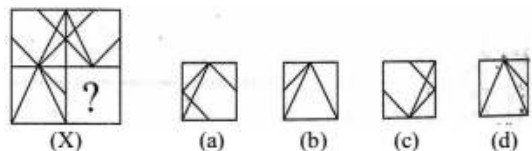


68. Basketball, Player, Court



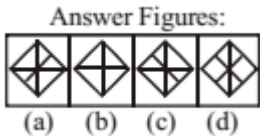
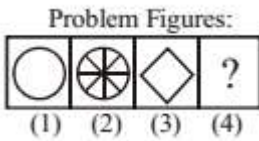
**Directions (Q. No. 69 -71): In each of the following questions, select a figure from amongst the four alternatives, which when placed in the blank space of figure (X) would complete the pattern.**

69.

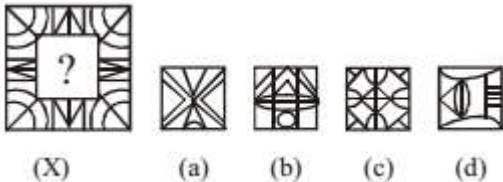




70.



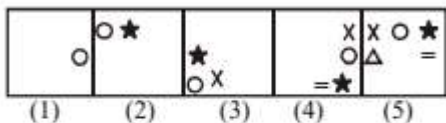
71.



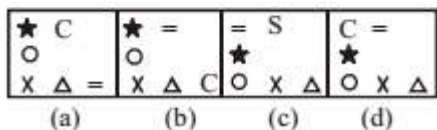
Directions (Q. No. 72 – 74. ) Each of the following questions consists of five figures marked 1,2,3,4 and 5 called the Problem Figures followed by four other figures marked a, b, c and d called the Answer Figures. Select a figure from amongst the Answer Figures which will continue the same series as established by the five Problem Figures

72.

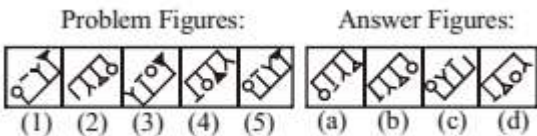
Problem Figures :



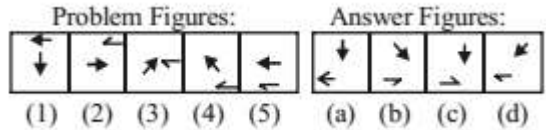
Answer Figures :



73.



74.



Directions (Q. No. 75-81): Choose the word which is nearest in meaning to the given word:-

75. Simpleton

- (a) Dunce
- (b) Tattler
- (c) Genius
- (d) Quack

76. Spry

- (a) Doubtful
- (b) Nimble
- (c) Prognosticate
- (d) Leave

77. Louse

- (a) Lukewarm
- (b) Beast
- (c) Parasitic Insect
- (d) Infant

78. Harbinger

- (a) Forerunner
- (b) Reel
- (c) Epic
- (d) Footstool

79. Passe

- (a) Rude
- (b) Old-Fashioned
- (c) Modern
- (d) Chic

80. Utopia

- (a) Hell
- (b) Reel
- (c) Paradise
- (d) Fool

81. Idiocy

- (a) Wisdom
- (b) Farce
- (c) Crap
- (d) Lunacy

Directions (Q. No. 82-85): Choose the word which is nearly opposite in meaning to the given word:-

82. Applaud

- (a) Encourage
- (b) Dignify
- (c) Blame
- (d) Scatter

83. Silence

- (a) Stillness
- (b) Agitation
- (c) Reserve
- (d) Convert

84. Angelical

- (a) Magnanimous
- (b) Critical
- (c) Benevolent
- (d) Diabolical

85. Apocryphal

- (a) Authentic
- (b) Fictitious
- (c) Adore
- (d) Loyalty

Directions (Q.No.86–93): Which word or words explains the meaning of the following idioms:-

86. Hit the nail right on the head

- (a) To be absolutely right.
- (b) Do what is expected or promised.

- (c) Agreeing with someone. (d) Not feel well.
- 87. Let bygones be bygones**  
 (a) To do something badly or cheaply. (b) To ignore or disregard a past offense  
 (c) Putting up a plan or idea into action. (d) Lose the Job
- 88. Halcyon days**  
 (a) Hard days (b) Of mental Pressure  
 (c) Happy days (d) Days of Preparation
- 89. One Who Eats one's Word**  
 (a) An event that happens infrequently. (b) Clever or expert way of doing something.  
 (c) Works very well or has the desired effect. (d) Take a statement back
- 90. To Keep the Wolf from Door**  
 (a) To make a situation worse. (b) To accidentally reveal a secret.  
 (c) To maintain oneself at a minimal level. (d) Being successful in doing something without difficulty.
- 91. Bury the hatchet**  
 (a) A good invention or innovation. (b) To make peace with someone.  
 (c) To take on a task that is way too big. (d) To present a counter argument.
- 92. To pick a hole in one's Coat**  
 (a) To find fault with one. (b) To solve two problems at once.  
 (c) Putting up a plan or idea into action. (d) Looking in the wrong place.
- 93. To Burn candles from both the ends.**  
 (a) Getting your things well organized. (b) To live at a hectic pace.  
 (c) To take on a task that is way too big. (d) Someone who lacks intelligence.

**Directions (Q. No. 94 – 97): Choose the correctly spelt word:-**

- 94.**  
 (a) Accreditation (b) Accredetation

- (c) Accreditation (d) Accredition
- 95.**  
 (a) Vecarious (b) Vicarious  
 (c) Vicorious (d) Vicarious
- 96.**  
 (a) Porsimonious (b) Parsimonious  
 (c) Parcimonious (d) Parsimonous
- 97.**  
 (a) Ostentatious (b) Ostantatious  
 (c) Ostentitious (d) Ostantatious

**Directions (Q. No. 98 -100) Read the following passage carefully and answer the questions given below it:-**

In spring, polar bear mothers emerge from dens with three months old cubs. The mother bear has fasted for as long as eight months but that does not stop the young from demanding full access to her remaining reserves. If there are triplets, the most persistent stands to gain an extra meal at the expense of others. The smallest of the cubs forfeits many meals to stronger siblings. Females are protective of their cubs but tend to ignore family rivalry over food. In 21 years of photographing polar bears, I have only once seen the smallest of triplets survive till autumn.

- 98. Female polar bears give birth during**  
 (a) Spring (b) Summer  
 (c) Autumn (d) Winter
- 99. Mother bear**  
 (a) Takes sides over cubs. (b) Lets the cubs fend for themselves.  
 (c) Feeds only their favourites. (d) Sees that all cubs get an equal share.
- 100. With reference to the passage, the following assumptions have been made:-**  
 I. Polar bears fast as long as eight months due to non-availability of prey.  
 II. Polar bears always give birth to triplets.  
 Which of the assumptions given above is/ are true?  
 (a) I only (b) II only  
 (c) Both I and II (d) Neither I nor II

### Hints & Solutions

**1. Sol: (b)**

Given,  $A/B = 4/3$

$$\Rightarrow (3A/B) = 4$$

$$\frac{9A-3B}{9A+3B} = \frac{3(3A-B)}{3(3A+B)}$$

$$= \frac{\left(\frac{3A}{B}-1\right)}{\left(\frac{3A}{B}+1\right)} = \frac{4-1}{4+1} = 3/5$$

**2. Sol: (c)**

Given: Speed of Boat in Still water = 8Km/hr  
 River speed = 2Km/hr

Downstream speed =  $8 + 2 = 10$  Km/hr

Upstream Speed =  $8 - 2 = 6$  Km/hr

Let Distance travelled = X

$$\left(\frac{X}{10}\right) + \left(\frac{x}{6}\right) = \left(\frac{16}{5}\right) \text{Hr}$$

$$\Rightarrow X = 12 \text{ Km}$$

$$\Rightarrow \text{Total distance} = 12 + 12 = 24 \text{ Km.}$$

**3. Sol: (a)**

Distance (Train Length) = 110m

Since Train and man are moving in opposite direction,

Relative Speed = Speed of train + Man's Speed

$$= 60 + 10 = 70 \text{ Km/hr}$$

$$= 70 * (5/18) \text{ m/sec}$$

$$= \left(\frac{175}{9}\right) \text{ m/sec}$$

Therefore, Time taken to pass the man

$$= \left(110 * \frac{9}{175}\right)$$

$$= 5.65 \text{ sec}$$

**4. Sol: (d)**

240 chocolates =  $240/12 = 20$  dozens

1 dozen = Rs.9  $\Rightarrow$  20 dozens = Rs.180

Cost price = Rs.180

Selling price =  $240 * 1 =$  Rs.240

Gain =  $240 - 180 = 60$

$$\text{Gain \%} = \left(\frac{60}{180}\right) * 100 = 33.33\%$$

**5. Sol: (c)**

$$\frac{50}{100} X + 84 = X$$

$$\frac{X}{2} - X = -84$$

$$\Rightarrow X - 2X = -168$$

$$\Rightarrow X = 168$$

**6. Sol: (a)**

Total age of 4 members, 10 years ago =  $(24 * 4)$  years = 96 years.

Total age of 4 members now =  $[96 + (10 * 4)]$  years = 136 years.

Total age of 6 members now =  $(24 * 6)$  years = 144 years.

Sum of the ages of 2 children =  $(144 - 136)$  years = 8 years.

Let the age of the younger child be X years.

Then, age of the elder child =  $(X+2)$  years.

So, Age of younger child = 3 years.

**7. Sol: (b)**

X becomes 2X in 4 years

2X becomes 4X in next 4 years

Thus, X becomes 4x in  $= 4 + 4 = 8$  years

**8. Sol: (d)**

Let the number be X

$$91 - (30X/100) = X$$

$$9100 - 30X = 100X$$

$$\Rightarrow 9100 = 130X$$

$$\Rightarrow x = 9100/130$$

Hence, X = 70.

**9. Sol: (c)**

$$445 = 5 * 89$$

$$356 = 2 * 2 * 89$$

HCF = 89

$$\text{Hence, Number of classes required} = \frac{445}{89} + \frac{356}{89}$$

$$= 5 + 4 = 9$$

**10. Sol: (a)**

SP of First TV = Rs. 3000

Profit = 15%

$$\text{Thus, CP of First TV} = \left(\frac{100}{115} * 3000\right) = \text{Rs. } 2609$$

Therefore, Profit of First TV = SP - CP

$$= 3000 - 2609 = \text{Rs. } 391$$

Loss % on Second TV = 10%

$$\text{Thus, CP of Second TV} = \left(\frac{100}{10} * 391\right) = \text{Rs. } 3910$$

**11. Sol: (c)**

Total number of Votes = 6000

$$\text{Number of valid votes} = \left(\frac{75}{100} * 6000\right) = 4500$$

Bikhu got 55% vote.

$$= \left(\frac{55}{100} * 4500\right) = 2475$$

Therefore Mahtre got remaining vote,

$$= 4500 - 2475 = 1525.$$

**12. Sol: (b)**

SP of one Tablet = Rs.12000

SP of Smartphone = Rs.12000

$$\text{Cost price of Smartphone} = \left(\frac{12000 * 100}{75}\right) = 16000$$

$$\text{Cost price of Tablet} = \left(\frac{12000 * 100}{120}\right) = 10000$$

Total Cost price =  $16000 + 10000 = 26000$

Loss =  $26000 - 24000 = 2000$

$$\text{Loss \%} = \left(\frac{2000}{26000}\right) * 100 \approx 7.7\%$$

**13. Sol: (b)**

$$77/100 = 77\%$$

$$96/150 = 64\%$$

$$103/350 \approx 30\%$$

$$\text{Percentage average} = \frac{77\% + 64\% + 30\%}{3} = 57\%$$

**14. Sol: (c)**

A number is divisible by 9 if the sum of the digits of a number is divisible by 9.

Sum of the digits of a given number  $X+X+X+A=3X+A$ .  $3X+A$  should be divisible by 9.

Also A should be a least natural number.

If we choose  $X = 1$ , A should be replaced by 6.

If we choose  $X = 2$ , A should be replaced by 3.

If we choose  $X = 3$ , A should be replaced by 0 (a whole number).

If we choose  $X = 4$ , A should be replaced by 6.

If we choose  $X = 5$ , A should be replaced by 3.

If we choose  $X = 6$ , A should be replaced by 0 (a whole number).

From this we can say that A should be replaced by the cyclic number 6, 3, 0

Among these 3 numbers, 3 is the least natural number.

**15. Sol: (c)**

Upon independence in August 1947, the title of Viceroy was abolished. The representative of the British Sovereign became known once again as the Governor-General. C. Rajagopalachari became the only Indian Governor-General.

**16. Sol: (b)**

The Chief of the Army Staff is the commander and usually the highest-ranking officer of the Indian Army.

The Army Chief in October 2016 was General Dalbir Singh

**17. Sol: (a)**

India signed a historic three-nation deal on Monday to develop the strategic port of Chabahar in Iran and build a transport-and-trade corridor through Afghanistan that could halve the time and cost of doing business with Europe.

**18. Sol: (d)**

The major banana growing states are in the northeastern and southern parts of the country. Tamil Nadu has the largest area followed by Maharashtra and Karnataka. Tamil Nadu also ranks first in production.

**19. Sol: (c)**

Carolina Marin defeated P.V.Sindhu in finals in Rio Olympics

**20. Sol: (b)**

The International Court of Justice (ICJ) is the principal judicial organ of the United Nations (UN). It was

established in June 1945 by the Charter of the United Nations and began work in April 1946. The seat of the court is at the Peace place in The Hague (Netherland).

**21. Sol: (d)**

Volcanic activity first took place at Etna about 500,000 years ago, with eruptions occurring beneath the sea off the ancient coastline of Sicily. Mount Etna is one of the most active volcanoes in the world and is in an almost constant state of activity.

**22. Sol: (b)**

Sachin Tendulkar became the first ever cricketer to be adjudged run out by a third umpire. It was a game-changing moment in cricket as it was the first time technology played a significant role in dismissing a cricketer. It was November 14, 1992, and the third umpire was Karl Liebenberg who made the decision.

**23. Sol: (a)**

Jamini Roy (11 April 1887 – 24 April 1972) was an Indian painter. He was honoured with the State award of Padma Bhushan in 1955. He was one of the most famous pupils of Abanindranath Tagore, whose artistic originality and contribution to the emergence of modern art in India remains unquestionable.

**24. Sol: (c)**

An inert gas is a gas which does not undergo chemical reactions under a set of given conditions.

Hydrogen is a gas that easily catches fire and can be explosive.

**25. Sol: (b)**

Gwadar Port is a tax free, warm-water, deep-sea port situated on the Arabian Sea at Gwadar in Balochistan province of Pakistan. The port features prominently in the China–Pakistan Economic Corridor (CPEC) plan, and is considered to be a crucial link between the ambitious One Belt, One Road and Maritime Silk Road projects. Gwadar Port became formally operational on 14 November 2016.

**26. Sol: (c)**

Salal Dam also known as Salal Hydroelectric Power Station, is a run-of-the-river power project on the Chenab River in the Reasi district of the Indian state of Jammu and Kashmir.

**27. Sol: (a)**

Kathakali is one of the major forms of classical Indian dance. It is another "story play" genre of art, but one distinguished by the elaborately colorful make-up, costumes and facemasks that the traditionally male

actor-dancers wear. Kathakali primarily developed as a Hindu performance art in the Malayalam-speaking southwestern region of India (Kerala).

**28. Sol: (c)**

The score Of Dipa Kamarakar in the final round in Rio Olympics was 15.066.

**29. Sol: (d)**

Digboi is a town and a town area committee in Tinsukia district in the north-eastern part of the state of Assam, India. Crude oil was discovered here in late 19th century. Digboi is known as the Oil City of Assam where the first oil well in Asia was drilled. The first refinery was started here as early as 1901. Digboi has the oldest oil well in operation.

**30. Sol: (b)**

Aladdin is a Middle Eastern folk tale. It is one of the tales in The Book of One Thousand and One Nights ("The Arabian Nights"), and one of the best known—although it was not part of the original Arabic text, but was added in the 18th century by Frenchman Antoine Galland.

**31. Sol: (d)**

P.V.Narasimha Rao had become Prime Minister of India after the death of Rajiv Gandhi

**32. Sol: (b)**

Antwerp is by far the most important diamond city in the world.

**33. Sol: (c)**

In Jainism, a tirthankara is a saviour and spiritual teacher of the dharma (righteous path). According to Jains, a tirthankara is a rare individual who has conquered the saṃsāra, the cycle of death and rebirth, on his own and made a path for others to follow. The first Tirthankara of Jainism was Rishabdev

**34. Sol: (c)**

Alberto Juantorena, in full Alberto Juantorena Danger (born December 3, 1950, Santiago de Cuba, Cuba), Cuban runner who won gold medals in both the 400- and 800-metre races at the 1976 Olympics in Montreal, becoming the first athlete to win both races in one Olympics. A member of the Cuban national basketball team, Juantorena switched to track at age 20. Standing 1.88 metres (6 feet 2 inches) tall with a powerful 2.75-metre (9-foot) stride, Juantorena became known as "El Caballo" ("The Horse")

**35. Sol: (a)**

The world's tallest artificial structure is the 829.8 m (2,722 ft) tall Burj Khalifa in Dubai (of the United Arab Emirates). The building gained the official title of "Tallest Building in the World" and the tallest self-supported structure at its opening on January 9, 2010.

**36. Sol: (b)**

The Old name of USA was "Thirteen colonies".

**37. Sol: (c)**

In a rare honour for an Indian sportsperson, star shuttler Saina Nehwal has been appointed as a member of the International Olympic Committee's (IOC) Athletes' Commission. "Following your candidature for the elections of the IOC Athletes' Commission during the Olympic Games Rio 2016, it is with great pleasure to appoint you in consultation with the Chair, as Member of the Athletes' Commission," the letter said.

**38. Sol: (a)**

Yarlung Tsangpo or Yalu Zangbu River is the longest river of Tibet. The part Tsangpo probably originates from the fact that the river flows from or through Tsang- encompassing the Tibet west of Lhasa. It is the upper stream of the Brahmaputra River.

**39. Sol: (d)**

Rafer Johnson is the First black to lead the Olympic contingent of USA in 1960 Olympics.

**40. Sol: (b)**

Satyajit Ray was an Indian filmmaker and author, widely regarded as one of the greatest filmmakers of the 20th century. Ray directed 36 films, including feature films, documentaries and shorts. He was also a fiction writer, publisher, illustrator, calligrapher, music composer, graphic designer and film critic.

**41. Sol: (c)**

The Assistant to the President for National Security Affairs (APNSA), commonly referred to as the National Security Advisor (NSA) or at times informally termed the NSC advisor. Susan Rice was the National Security Adviser (NSA) of USA in 2016.

**42. Sol: (b)**

The Chief of the Naval Staff is the commander and the highest-ranking officer in the Indian Navy. The position is abbreviated CNS in Indian Navy cables and communication, and usually held by a four-star officer in the rank of Admiral. The current CNS is Admiral Sunil Lanba. The 23rd Navy Chief, he took

over from Admiral Robin K. Dhowan, who retired on 31 May 2016 after four decades of service from the navy.

**43. Sol: (c)**

The Dīn-i Ilāhī ("Religion of God") was a syncretic religion propounded by the Mughal emperor Akbar the Great in 1582 AD, intending to merge the best elements of the religions of his empire, and thereby reconcile the differences that divided his subjects. The elements were primarily drawn from Islam and Hinduism, but some others were also taken from Christianity, Jainism, Sikhism and Zoroastrianism.

**44. Sol: (d)**

The Mandal Commission was established in India in 1979 by the Janata Party government under Prime Minister Morarji Desai with a mandate to "identify the socially or educationally backward.

**45. Sol: (b)**

The 2014 Asian Games opening ceremony was held on Friday, 19 September 2014. It began at 6:00pm Korea Standard Time (UTC+9) and ended at 11:29pm. The ceremony took place at newly built Incheon Asiad Main Stadium.

**46. Sol: (a)**

In Jainism, a tirthankara is a saviour and spiritual teacher of the dharma (righteous path). According to Jains, a tirthankara is a rare individual who has conquered the saṃsāra, the cycle of death and rebirth, on his own and made a path for others to follow. The 23<sup>rd</sup> Tirthankara of Jainism was Parsva Natha

**47. Sol: (c)**

Malik Muhammad Jayasi was an Indian poet who wrote in the Avadhi language. His most famous work is Padmavat (1540), a poem describing the story of the historic siege of Chittor by Alauddin Khilji in 1303 CE who attacked Chittor after hearing of the beauty of Queen Rani Padmini, the wife of King Rawal Ratan Singh.

**48. Sol: (d)**

The Mariana Trench or Marianas Trench is the deepest part of the world's oceans. It is located in the western Pacific Ocean, an average of 200 kilometres (124 mi) to the east of the Mariana Islands, in the Western Pacific East of Philippines.

**49. Sol: (b)**

Macedonian empire belongs to Iron Age.

**50. Sol: (c)**

The Governor-General of India (or, from 1858 to 1947, the Viceroy and Governor-General of India, commonly shortened to Viceroy of India) was originally the head of the British administration in India. Warren Hastings was the first governor general of India.

**51. Sol: (d)**

The ruling military junta changed its name from Burma to Myanmar in 1989, a year after thousands were killed in the suppression of a popular uprising.

**52. Sol: (a)**

The penalty box or sin bin (sometimes called the bad box, or simply bin or box) is the area in ice hockey, roller derby, rugby league, rugby union and some other sports where a player sits to serve the time of a given penalty, for an offence not severe enough to merit outright expulsion from the contest. Teams are generally not allowed to replace players who have been sent to the penalty box.

**53. Sol: (c)**

The National Security Advisor (NSA) is the chief executive of the National Security Council (NSC), and the primary advisor to the Prime Minister of India on national and international security. Brajesh Mishra the First National Security Advisor (NSA) of India.

**54. Sol: (c)**

Kandla, also known as the Kandla Port Trust is a seaport in Kutch District of Gujarat state in western India, near the city of Gandhidham. Kochi also known as Cochin, is a major port city on the south-west coast of India by the Arabian Sea and the Laccadive Sea and is part of the district of Ernakulam in the state of Kerala.

**55. Sol: (b)**

70 percent of your body's iron is found in the red blood cells of your blood called hemoglobin.

Magnesium is bound as the central atom of the porphyrin ring of the green plant pigment chlorophyll.

**56. Sol: (a)**

Howdah is a carriage which is positioned on the back of an elephant, used most often in the past to carry wealthy people or for use in hunting or warfare

Saddle is a seat fastened on the back of a horse or other animal for riding, typically made of leather and raised at the front and rear.

**57. Sol: (b)**

'Aryabhata' was the famous 'Mathematician' of the ancient period in the same way 'Varahamihira' was a famous 'Astronomer' of ancient period.

**58. Sol: (d)**

The Bihu dance is a folk dance from the Indian state of Assam related to the Bihu festival.

Padayani, also called Padeni, (from the Malayalam word for military formations) is a traditional folk dance and a ritual art from the central portion of the Indian state of Kerala.

**59. Sol: (c)**

Ruby is a Gemstone which is Red in colour. Similarly Sapphire is also a gemstone which is Blue in colour.

**60. Sol: (a)**

Cabbage is a multilayered Vegetable. Others are not.

**61. Sol: (c)**

Except May, all other are either followed or preceded by a month of 31 days.

**62. Sol: (b)**

All except Igloo are types of boats, while igloo is a kind of houses found in polar system.

**63. Sol: (d)**

Except Equator, all other are Zodaic Signs.

**64. Sol: (a)**

Except Black, all other are Rainbow Colours.

**65. Sol: (c)**

Some questions are asked in examination and some in practice but examination and practice are different from each other.

**66. Sol: (c)**

Bus and Train are different from each other but some travelers travel by bus and some travel by train.

**67. Sol: (a)**

Wheat and Paddy are different from each other but Wheat is the Rabi-Crop.

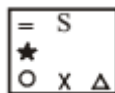
**68. Sol: (b)****69. Sol: (b)****70. Sol: (a)**

The whole figure is divided into eight sections.

**71. Sol: (c)****72. Sol: (c)**

Form (1) to (2) Small circle shifts three steps anticlockwise. New image gets added behind small circle. From (2) to (3). Small circle and star shifts two steps anticlockwise. New image gets added ahead of small circle. From (3) to (4) Small circle, star and cross

shifts three steps anticlockwise and new image added behind of small circle. From (4) to (5) Small circle, star, cross and equal to shifts two steps anticlockwise and new image added ahead of small circle. From (5) to answer will be

**73. Sol: (b)**

The whole figures inverts alternatively upside and downside • figure which is 4th position in problem figure 1 change its position 1st, 2nd, 3rd, 4th and again 1st places. • T figure shifts 1st and 2nd place alternatively. • Y figure goes from 2nd to 3rd, 3rd to 4th, 4th to 1st and 1st to 2nd • T figure shifts 3rd and 4th place alternatively.

**74. Sol: (a)**

Upper arrow becomes half and rotates clockwise by 45° middle arrow rotates anticlockwise by 45°.

**75. Sol: (a)**

Simpleton -a foolish or gullible person.

Dunce -a person who is slow at learning; a stupid person.

**76. Sol: (b)**

Spry - (especially of an old person) active; lively.

Nimble -quick and light in movement or action; agile.

**77. Sol: (c)**

Louse - either of two small wingless parasitic insects that live on the skin of mammals and birds.

**78. Sol: (a)**

Harbinger - a person who goes ahead and makes known the approach of another; herald.

Forerunner - a person who goes or is sent in advance to announce the coming of someone or something that follows; herald; harbinger.

**79. Sol: (b)**

Passe-no longer fashionable; out of date.

**80. Sol: (c)**

Utopia is a perfect "place" that has been designed so there are no problems.

**81. Sol: (d)**

Idiocy means extremely stupid behaviour.

Similarly lunacy means extreme folly or eccentricity.

**82. Sol: (c)**

Applaud means show approval or praise by clapping. Opposite to that is Blame.

**83. Sol: (b)**

Silence means complete absence of sound.

Opposite to that is Agitation.

**84. Sol: (d)**

Angelical -One who manifests goodness, purity, and selflessness.

Diabolical - characteristic of the Devil, or so evil as to recall the Devil.

**85. Sol: (a)**

Apocryphal means doubtful authenticity.

Authentic means Genuine.

**86. Sol: (a)**

“Hit the nail right on the head” means to say or do exactly the right thing.

**87. Sol: (b)**

“Let bygones be bygones” means to ignore or disregard a past offense

**88. Sol: (c)**

Halcyon Days means a very happy or successful period in the past.

**89. Sol: (d)**

“One who eats One’s Word” means to retract something that one has said.

**90. Sol: (c)**

“To keep the wolf from Door” means to maintain oneself at a minimal level.

**91. Sol: (b)**

“Bury the hatchet” means end a quarrel or conflict and become friendly.

**92. Sol: (a)**

“To pick a hole in One’s Coat” means to find mistakes in something someone has done or said.

**93. Sol: (b)**

“To Burn Candles from both the ends” means to overwork or exhaust oneself by doing too many Things, especially both late at night and early in the morning.

**94. Sol: (c)**

Accreditation is the process in which certification of competency, authority, or credibility is presented.

**95. Sol: (d)**

Vicarious means experienced in the imagination through the feelings or actions of another person.

**96. Sol: (b)**

Parsimonious means very unwilling to spend money or use resources.

**97. Sol: (a)**

Ostentatious means characterized by pretentious or showy display; designed to impress.

**98. Sol: (d)****99. Sol: (b)****100. Sol: (d)**



## AFCAT 2016 - II – SOLVED PAPER

**Directions (1-5) - Which word or words explains the meaning of the following idioms:-**

1. All Agog  
(a) Almighty (b) Unmoved  
(c) Praise someone (d) Full of interest and excitement
2. To the manner born  
(a) One of low birth (b) Naturally at ease  
(c) Place of one's birth (d) Caesarean birth
3. Lose one's marbles  
(a) Lose something dear to you (b) Suffer a setback  
(c) Become insane (d) Become drunk
4. Bolt from the blue  
(a) Sea Swimming (b) Complete surprise  
(c) Reckless (d) Careless
5. Be like a bear with a sore head  
(a) Be in a full mood (b) Have headache  
(c) Powerful and arrogant (d) Restless

**Directions (6-9) – Choose the word which is nearly opposite in meaning to the given word:-**

6. Beguile  
(a) Deceive (b) Honest  
(c) Charm (d) Cheat
7. Ameliorate  
(a) Deteriorate (b) Procrastinate  
(c) Stagnate (d) Deviate
8. Feckless  
(a) Spotted (b) Fatuous  
(c) Strong (d) Fawning
9. Cacophonous  
(a) Tamed (b) Harmonious  
(c) Silent (d) Domestic

**Directions (10-14) – Select the most appropriate word from the options against each number:-**

About sixty percent of the human body is water. If you could **(10)** out a human being like a **(11)**, you would obtain about fifty liters of water. This water which is not like **(12)** water because of the substance it **(13)** is necessary to the life of the human being. About a gallon of it is in the blood vessels and is **(14)** circulating by temperature.

10.  
(a) Work (b) Wrench  
(c) Press (d) Squeeze

11.  
(a) Mango (b) Lemon  
(c) Fruit (d) Banana

12.  
(a) Usual (b) Ordinary  
(c) Common (d) Normal

13.  
(a) Dissolves (b) Carries  
(c) Contains (d) Includes

14.  
(a) Continued (b) Made  
(c) Got (d) Kept

**Directions (15-18) – Choose the correctly spelt word:-**

15.  
(a) Ascendancy (b) Ascendncy  
(c) Ascandency (d) Acscendancy

16.  
(a) Hegamony (b) Hegemony  
(c) Hegemoney (d) Hegamoney

17.  
(a) Parpetuate (b) Perpetuete  
(c) Perpetuate (d) Perpatuate

18.  
(a) Apocaleptic (b) Apocalaptic  
(c) Apocalyptic (d) Apacalyptic

**Directions (19-22) – Choose the word which is nearest in meaning to the given word:-**

19. Preposterous  
(a) Formal (b) Judicious  
(c) Ridiculous (d) Ceremonious

20. Dissemble  
(a) Disagree (b) Shake  
(c) Impeccable (d) Conceal

21. Raucous  
(a) Flavourful (b) Jarring  
(c) Boisterous (d) Evil

22. Abrogate  
(a) Put an end to (b) Elope  
(c) Gatecrash (d) Send away

**Directions (23-25) – Read the following passage carefully and answer the questions given below it:-**

The great Acharya's have said that having discovered a great goal, surrender yourself to that goal and act towards it, drawing your inspiration from that goal whereby you will get a new column of energy. Do not

allow this energy to be dissipated in the futile memories of the past regrets or failures, nor in the imagined sorrow of the future, nor in the excitement of the present, and thus bring that entire energy focused into activity. That is the highest creative action in the world outside. Thereby the individual who is till now considered most inefficient finds his way to the highest achievement and success. This is said easily in a second. But in order to train our mind to this attitude it needs considerable training because we have already trained the mind wrongly to such an extent that we have become perfect in imperfections. Not knowing the art of action, we have been master artists in doing the wrong things. The totality of activity will bring the country to a wrong end, indeed. The point is, intellect is very powerful and everyone is driving but nobody seems to know how to control the mental energy and direct it properly, or guide it to the proper destination.

**23.** Which of the following is the source of energy?

- |  |  |
|--|--|
| (a) A column that supports a building. | (b) Stimulation obtained from a set aim.               |
| (c) Highest creative action            | (d) Proper training of the mind to achieve perfection. |

**24.** The author's chief concern is

- |   |  |
|---|--|
| (a) Establishment of socialistic pattern.         | (b) Discovery of great goal in the life. |
| (c) Regulation of energy in the proper direction. | (d) Training of the mind.                |

**25.** What is the effect of training of the wrong mind?

- |  |   |
|--|---|
| (a) We have become perfect in all aspects.   | (b) Art of action is too much emphasized. |
| (c) Each of us could become a master artist. | (d) None of these.                        |

**Directions (26-50) – Choose the most appropriate answer:-**

**26.** The book, 'On My Terms: From the Grassroots to the Corridors of Power,' is the autobiography of

- |                   |                       |
|-------------------|-----------------------|
| (a) Lal Thanhawla | (b) Ram Jethmalani    |
| (c) Sharad Pawar  | (d) Okram Ibobi Singh |

**27.** 21<sup>st</sup> Conference of Parties (COP21) on Climate Change was held in Nov-Dec 2015 at

- |            |               |
|------------|---------------|
| (a) London | (b) Singapore |
| (c) Paris  | (d) New York  |

**28.** Artificial rain is produced by seeding clouds with

- |                     |                       |
|---------------------|-----------------------|
| (a) Silver Iodide   | (b) Potassium Nitrate |
| (c) Copper Sulphate | (d) Silver Nitrate    |

**29.** Which of the following parts of India receives rainfall from retreating monsoon?

- |                      |                      |
|----------------------|----------------------|
| (a) North East India | (b) Tamil Nadu Coast |
| (c) Mahanadi Delta   | (d) Malabar Coast    |

**30.** Who was honored with the Order of Australia, the highest Civilian Award in January this year?

- |                    |                    |
|--------------------|--------------------|
| (a) Yashwant Sinha | (b) Vashu Bhagnani |
| (c) Sanjeev Koshy  | (d) Sanjeev Kapoor |

**31.** Who among the following was awarded India's highest peacetime gallantry award, Ashoka Chakra posthumously on 26 January, 2016?

- |                                     |                            |
|-------------------------------------|----------------------------|
| (a) Lance Naik Mohan Nath Goswami   | (b) Lance Naik Albert Ekka |
| (c) Lance Naik Hanamanthappa Koppad | (d) Lance Naik Hemraj      |

**32.** Which one of the following best explains the occurrence of the solar eclipse?

- |  |  |
|--|--|
| (a) Position of the Moon between Sun and Earth | (b) Position of the Moon between Sun and Earth on a new moon |
| (c) Both (a) and (b)                           | (d) one of the above   |

**33.** Highest Civilian Award, Bharat Ratna was conferred in 2015 to

- |                          |                          |
|--------------------------|--------------------------|
| (a) Atal Bihari Vajpayee | (b) L.K. Advani          |
| (c) Jai Prakash Narayan  | (d) Madan Mohan Malaviya |

**34.** The indigenously developed Navigational Satellite system is known as

- |           |             |
|-----------|-------------|
| (a) IRGPS | (b) Galileo |
| (c) IRNSS | (d) GLONASS |

**35.** Bajirao was appointed as Peshwa at the age of 20 years under the reign of

- |                          |                         |
|--------------------------|-------------------------|
| (a) Sambhaji             | (b) Chhatrapati Shahu   |
| (c) Rajaram II of Satara | (d) Rajaram Chhatrapati |

**36.** Which cricketer has been conferred with Col. C.K. Naidu lifetime achievement award in 2015?

- |                       |                  |
|-----------------------|------------------|
| (a) Bishen Singh Bedi | (b) Kapil Dev    |
| (c) Mohinder Amarnath | (d) Syed Kirmani |

**37.** Besides the Qutab Mosque and Qutab Minar, Qutab-ud-din Aibak is said to have built

- |                         |  |
|-------------------------|--|
| (a) Adhai-din-ka Jhopra | (b) Khirki masjid at mosque at Ajriler |
| (c) Jahan-Panath        |  |

- (c) Mausoleum of Khan-i-Jahan Tilangani (d) Kila-i-Kuhna mosque at Delhi
38. Indian Ruler who defeated British in their early stage of rule in India was  
 (a) Maharaja Ranjit Singh (b) Mahadaji Scindhia  
 (c) Hyder Ali (d) Tipu Sultan
39. Who among the following will head the Judicial Committee on One Rank One Pension (OROP) scheme?  
 (a) Y.V. Reddy (b) L. Narasimha Reddy  
 (c) Sanjay Mishra (d) N.S. Reddy
40. The mascot of the South Asian Games conducted in February 2016 was  
 (a) Chikor (b) Shera  
 (c) Tikhor (d) Appu
41. Who among the following shooters clinched the 50 m pistol gold at the ISSF World Cup in Bangkok in March 2016?  
 (a) Jitu Rai (b) Pang Wei  
 (c) Wang Zhiwei (d) Potent Warren
42. Which country will host Commonwealth Games in 2018?  
 (a) New Zealand (b) Australia  
 (c) Scotland (d) Malaysia
43. The largest concentration of Harappan sites has been found along the  
 (a) Sutlej (b) Ghaggar-Hakra  
 (c) Indus (d) Ravi
44. Heavy water is called heavy because  
 (a) It is denser than ordinary water (b) It is an oxide of deuterium  
 (c) It has a heavy (or bad) taste (d) It has a heavier isotope of hydrogen
45. Which of the following soils is most conducive for the growth of cotton?  
 (a) Alluvial (b) Red  
 (c) Laterite (d) Black
46. India has inked a deal with France to acquire fighter aircraft, Dassault Rafale. Which is the other French fighter aircraft in the inventory of Indian Air Force?  
 (a) MiG 21 (b) Mirage 2000  
 (c) AJT Hawk (d) Su-30 MKI
47. Resolution of Puma Swaraj was passed on 26, January, 1930 at  
 (a) Haripur (b) Lahore
- (c) Karachi (d) Calcutta
48. Deepika Padukone has received Filmfare award 2016 for the Best Actress in the movie  
 (a) Bajirao Mastani (b) Happy New Year  
 (c) Tamasha (d) Piku
49. The largest Oil Field of Gujarat is in  
 (a) Senand (b) Kadi  
 (c) Ankleshwar (d) Kalol
50. Fundamental Rights are enshrined in the Constitution of India in  
 (a) Part I (b) Part III  
 (c) Part IV (d) Part V
51. A worker may claim Rs.1.5 for each km which he travels by taxi and 50 paise for each km he drives his own car. If in one week he claimed Rs.50 for travelling 80 km, how many Kms did he travel by taxi?  
 (a) 20 Km (b) 14 Km  
 (c) 12 Km (d) 10 Km
52. In an examination, a student was asked to find  $\frac{3}{14}$  of a certain number. By mistake, he found  $\frac{3}{4}$  of it. His answer was 150 more than the correct answer. Find the number.  
 (a) 180 (b) 280  
 (c) 380 (d) 480
53. An amount of Rs.735 are divided among A,B and C. If each of them receives Rs.25 less, their shares would have been in the ratio 1:3:2. The money received by C was?  
 (a) Rs.195 (b) Rs.200  
 (c) Rs.225 (d) Rs.245
54. 20 litres of a mixture contains milk and water in the ratio 5 : 3. If 4 litres of this mixture be replaced by 4 litres of milk, the ratio of milk to water in the new mixture would be  
 (a) 2:1 (b) 7:3  
 (c) 8:3 (d) 4:3
55. A man rows upstream a distance of 9km or downstream a distance of 18 km taking 3 hours each time. The Speed of the boat in still water is  
 (a)  $7\frac{1}{2} km/h$  (b)  $6\frac{1}{2} km/h$   
 (c)  $5\frac{1}{2} km/h$  (d)  $4\frac{1}{2} km/h$

56. A can do a piece of work in 10 days. He works at it for 4 days and then B finishes it in 9 days. In how many days can A and B together finish the work?

- (a) 6 days (b) 8 days  
(c)  $8\frac{1}{2}$  days (d)  $7\frac{1}{2}$  days

57. A crate of mangoes contains one bruised mango for every 30 mango in the crate. If 3 out of every 4 bruised mango are considerably unsalable and there are 12 unsalable mangoes in the crate, how many mangoes are there in the crate?

- (a) 480 (b) 500  
(c) 420 (d) 520

58. A man can row 30 km upstream and 44 km downstream in 10 hours. He can row 40 km upstream and 55 km downstream in 13 hours. Find the rate of current.

- (a) 3 Km/h (b) 2 Km/h  
(c) 4 Km/h (d) 5 Km/h

59. How long will it take for a sum of money invested at 5%p.a. at Simple Interest to increase its value by 40%?

- (a) 5 years (b) 6 years  
(c) 7 years (d) 8 years

60. The mean of 50 observations was 36. It was found later that an observation 48 was wrongly taken as 23. The corrected new mean is

- (a) 35.2 (b) 34.1  
(c) 36.5 (d) 39.1

61. The average score of a cricketer for ten matches is 38.9 runs. If the average for the first six matches is 42, the average for the last four matches is

- (a) 33.25 (b) 33.5  
(c) 34.25 (d) 35

62. On a certain sum, the simple interest at the end of  $6\frac{1}{4}$  years becomes  $\frac{3}{8}$ th of the sum. The rate percent is

- (a) 7% (b) 6%  
(c) 5% (d)  $5\frac{1}{2}$  %

63. A horse is sold at a profit of 25%. If both the cost price and selling price are Rs.200 less, the profit will be 5% more. The cost price is

- (a) Rs.1100 (b) Rs.1200  
(c) Rs.1000 (d) Rs.900

64. Two trains travel in opposite directions at 36Km/h and 45 Km/h respectively. A man sitting in slower train passes the faster train in 8 seconds. The length of the faster train is

- (a) 80 m (b) 120 m  
(c) 160 m (d) 180 m

65. By selling a chair for Rs.368, a man lost 8%. For how much should he have sold it to gain 15%?

- (a) Rs.450 (b) Rs.475  
(c) Rs.460 (d) Rs.500

66. A Train 110 metres long is running with a speed of 60Km/h. In what time will it pass a man who is running at 6Km/h in the direction opposite to that of train?

- (a) 5 sec (b) 6 sec  
(c) 7 sec (d) 10 sec

67. If 3 men or 4 women can plough a field in 43 days, in how many days 7 men and 5 women can plough the same field?

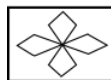
- (a) 18 days (b) 10 days  
(c) 12 days (d) 15 days

68. A man sold two watches for Rs.3750 each: on one he gain 5% and on other he lost 5%. What was his total gain or loss as a percentage?

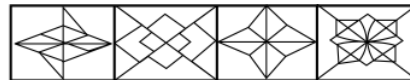
- (a) 0.25% loss (b) 2.5% loss  
(c) 25% gain (d) 12.5% gain

**Directions (Q. No. 69-73):** In each of the following questions, figure (X) is given followed by four alternative figures (a), (b), (c) and (d). Figure(X) is embedded in one of the alternative figures. Trace out the alternative which contains figure (X) as its part.

69.



(a)



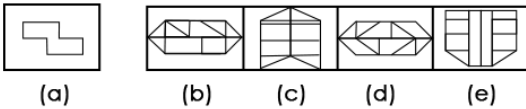
(b)

(c)

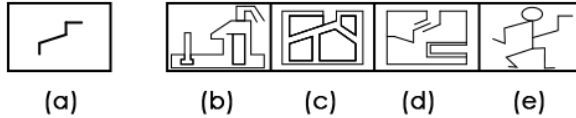
(d)

(e)

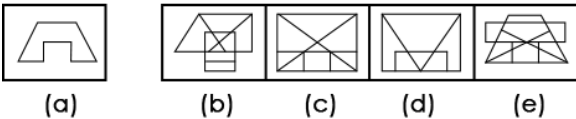
70.



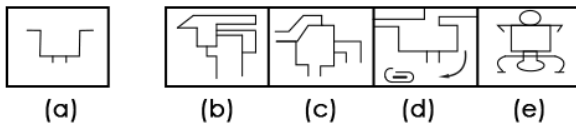
71.



72.

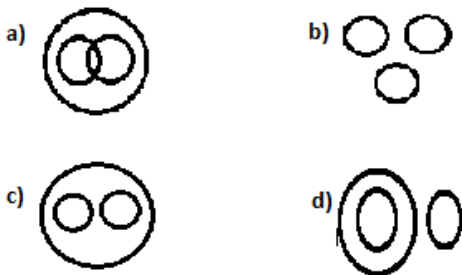


73.

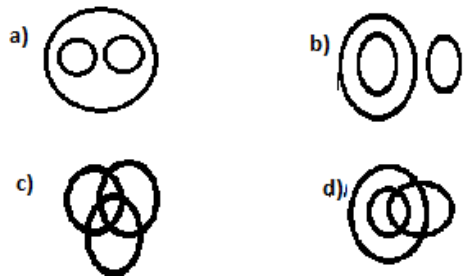


**Directions (Q. No. 74-77):** Each of these questions given below contains three elements. Three elements may or may not have some inter-linkage. Each group of elements may fit into one of these diagrams at (a), (b), (c) or (d). You have to indicate the group of elements which correctly fits into the diagrams:

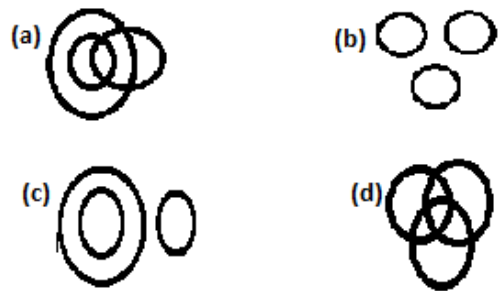
74. Which of the following diagrams indicates the best relation between Mountains, Earth and Forests?



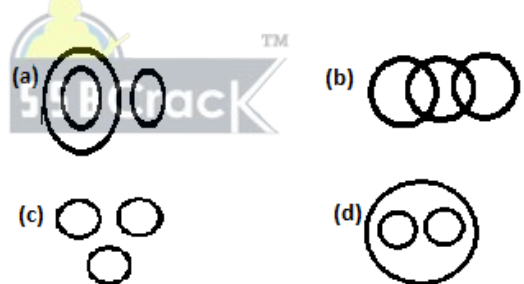
75. Which of the following diagrams indicates the best relation between Sun, Planets and Earth?



76. Which of the following diagrams indicates the best relation between Graduates, Teacher and Player?

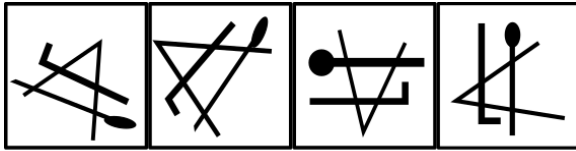


77. Which of the following diagrams indicates the best relation between Leaf seed and Root?



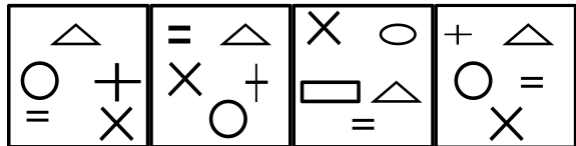
**Directions (Q.No.78-80):** In each problem, out of the four figures marked (a) (b) (c) and (d), three are similar in a certain manner. However, one figure is not like the other three. Choose the figure which is different from the rest.

78.



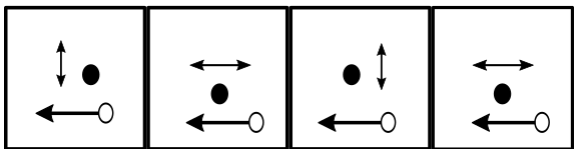
(a) (b) (c) (d)

79.



(a) (b) (c) (d)

80.



(a) (b) (c) (d)

Directions (Q. No. 81-85): In each of the following questions, four words have been given out of which three are alike in some manner, while the fourth one is different. Choose the word which is different from the rest:

81.

- (a) Bogota
- (b) Sydney
- (c) Doha
- (d) Brussels

82.

- (a) Retina
- (b) Pupil
- (c) Vision
- (d) Cornea

83.

- (a) Udayagiri & Khandagiri
- (b) Badami
- (c) Elephanta
- (d) Doddabetta

84.

- (a) Tibia
- (b) Cortex
- (c) Cranium
- (d) Cerebellum

85.

- (a) Salto Kangri
- (b) Kongka
- (c) Zoji La
- (d) Kumbharli Ghat

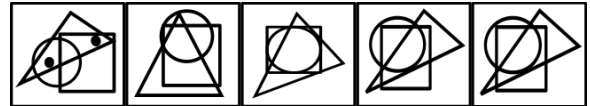
Directions (Q. 86-90): In each of the following questions, select a figure from amongst the four alternatives, which satisfies the same conditions of placement of the dots as in figure (X):

86.



(X) (a) (b) (c) (d)

87.



(X) (a) (b) (c) (d)

88.



(X) (a) (b) (c) (d)

89.



(X) (a) (b) (c) (d)

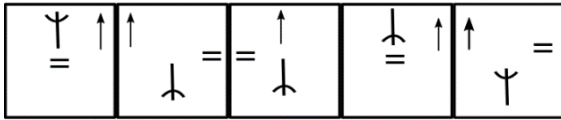
90.



(X) (a) (b) (c) (d)

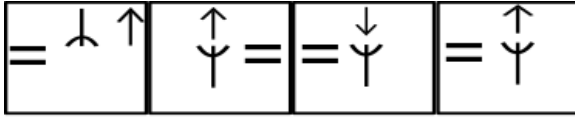
Direction (Q.No.91-95) Each of the following questions consists of five figures marked 1,2,3,4 and 5 called the problem figures followed by four other figures marked (a), (b), (c) and (d) called the answer figures. Select a figure from amongst the Answer figures which will continue the same series as established by the five problem figures.

91. Problem Figures:



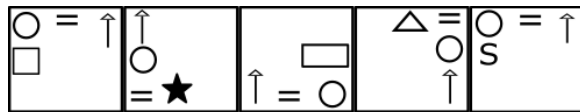
(X) (a) (b) (c) (d)

Answer Figure:



(a) (b) (c) (d)

92. Problem Figures:



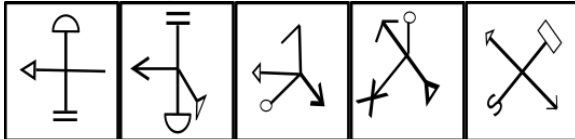
(1) (2) (3) (4) (5)

Answer Figure:



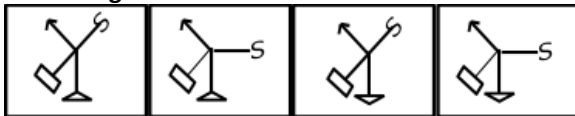
(a) (b) (c) (d)

93. Problem Figures:



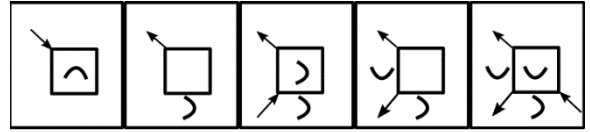
(1) (2) (3) (4) (5)

Answer figure



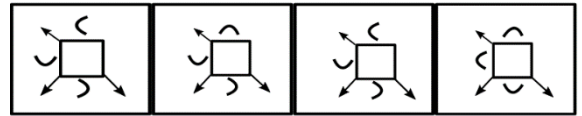
(a) (b) (c) (d)

94. Problem Figures:



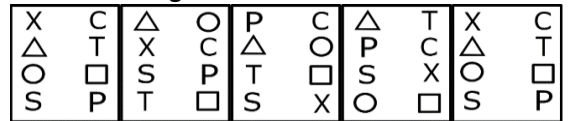
(1) (2) (3) (4) (5)

Answer figure:



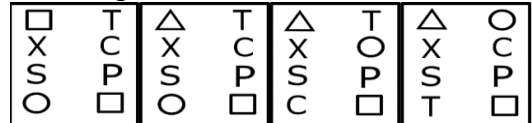
(a) (b) (c) (d)

95. Problem Figures:



(1) (2) (3) (4) (5)

Answer figure:



(a) (b) (c) (d)

Directions (Q. No. 96-100): In Each of the following questions, find out the alternative which will replace the question mark:

96. Anatomy : Zoology :: Paediatrics : ?

- (a) Chemistry (b) Medicine  
(c) Palaeontology (d) Mechanics

97. Eccrinology : Secretions :: Selenography : ?

- (a) Sun (b) Moon  
(c) Crust (d) Mantle

98. Virology : Virus :: Semantics : ?

- (a) Amoeba (b) Language  
(c) Nature (d) Society

99. Tectonics : Building :: Taxidermy : ?

- (a) Classification (b) Conserving  
(c) Stuffing (d) Collecting

100. Annihilation : Fire :: Cataclysm : ?

- (a) Emergency (b) Tribulation  
(c) Anxiety (d) Flood

## Hints & Solutions

1. (d) All Agog- Full of interest and excitement.

**Sentence:** The audience was all agog as the speaker recounted tales of his experience as a stunt car driver.

2. (b) To the manner born- Naturally at ease.

**Sentence:** Although he never lost his lower-class accent, he lived the life of a rich and successful businessman as to the manner born.

3. (c) Lose one's marbles- become insane.

**Sentence:** When he started ranting about how the government was out to get him, I thought he'd lost his marbles.

4. (b) Bolt from the blue- complete surprise.

**Sentence:** Salim return to India was a bolt from the blue.

5. (a) Be like a bear with a sore head- be in a full mood.

**Sentence:** Diya was like a bear with a sore head when she found out she had missed her connecting flight.

6. (d) The best opposite for the word beguile is cheat.

**Sentence:** Government is using media to beguile the public.

7. (a) The best opposite for the word Ameliorate is Deteriorate.

**Sentence:** After the last accident, he is ameliorating considerably.

8. (c) The best opposite for the word Feckless is strong.

9. (b) The best opposite for the word Cacophonous is Harmonious.

10. (d) About sixty percent of the human body is water. If you could **squeeze** out

11. (b) A human being like a **lemon**,

12. (b) You would obtain about fifty liters of water. This water which is not like **ordinary** water

13. (a) Because of the substance it **dissolves** is necessary to the life of the human being.

14. (d) About a gallon of it is in the blood vessels and is **kept** circulating by temperature.

15. (a) **Correct spelling:** Ascendancy

16. (b) **Correct spelling:** Hegemony

17. (c) **Correct spelling:** Perpetuate

18. (c) **Correct spelling:** Apocalyptic

19. (c) The most nearly synonym for the word Preposterous is ridiculous.

**Sentence:** The new laws are preposterous and will not solve the real crime issue.

20. (d) The most nearly synonym for the word dissemble is conceal.

**Sentence:** He began to tremble, and could not dissemble.

21. (c) The most nearly synonym for the word Raucous is boisterous.

**Sentence:** The beat was fast and raucous.

22. (a) The most nearly synonym for the word Abrogate is put an end to.

**Sentence:** The government has formally abrogated the 1977 treaty.

23. (b) From the passage, the source of energy is stimulation obtained from a set aim.

24. (c) The author's chief concern is regulation of energy in the proper direction.

25. (d) none of the options are correct.

26. (c) The book, 'On My Terms: From the Grassroots to the Corridors of Power,' is the autobiography of Sharad Pawar.

27. (c) 21<sup>st</sup> Conference of Parties (COP21) on Climate Change was held in Nov-Dec 2015 at Paris.

28. (a) Artificial rain is produced by seeding clouds with **Silver** Iodide.

29. (b) In India, Tamil Nadu Coast receives rainfall from retreating monsoon.

30. (c) Sajeev Koshy was honored with the Order of Australia, the highest Civilian Award in January this year.

31. (a) Lance Naik Mohan Nath Goswami awarded India's highest peacetime gallantry award, Ashoka Chakra posthumously on 26 January, 2016.

32. (b) The Solar eclipse occurs on the position of the Moon between Sun and Earth on a new moon.

33. (a & D) Highest Civilian Award, Bharat Ratna was conferred in 2015 to Atal Bihari Vajpayee and Madan Mohan Malaviya.

34. (c) The indigenously developed Navigational Satellite system is known as IRNSS.

35. (b) Bajirao was appointed as Peshwa at the age of 20 years under the reign of Chhatrapati Shahu.

36. (d) Syed Kirmani has been conferred with Col. C.K. Naidu lifetime achievement award in 2015.



**37. (a)** Besides the Qutab Mosque and Qutab Minar, Qutab-ud-din Aibak is said to have built Adhai-din-ka jhopra mosque at Ajriler.

**38. (c)** Indian Ruler who defeated British in their early stage of rule in India was Mahadaji Scindhia.

**39. (b)** L. Narasimha Reddy head the Judicial Committee on One Rank One Pension (OROP)' scheme.

**40. (c)** The mascot of the South Asian Games conducted in February 2016 was Tikhor.

**41. (a)** Jitu Rai, clinched the 50 m pistol gold at the ISSF World Cup in Bangkok in March 2016.

**42. (b)** Australia will host Commonwealth Games in 2018.

**43. (b)** The largest concentration of Harappan sites has been found along the Ghaggar-Hakra.

**44. (b)** Heavy water is called heavy because it is an oxide of deuterium.

**45. (d)** Black soil is the most conducive for the growth of cotton.

**46. (b)** India has inked a deal with France to acquire fighter aircraft, Dassault Rafale. The other French fighter aircraft in the inventory of Indian Air Force is Mirage 2000.

**47. (b)** Resolution of Purna Swaraj was passed on 26, January, 1930 at Lahore.

**48. (d)** Deepika Padukone has received Filmfare award 2016 for the Best Actress in the movie Piku.

**49. (c)** The largest Oil Field of Gujarat is in Ankleshwar.

**50. (b)** Fundamental Rights are enshrined in the Constitution of India in Part III.

**51. Sol: (d)**

Assume that, he travelled  $x$  Kilometers by taxi and hence he must have travelled  $80-x$  Kilometers by car. Then we have,

$$50 = 1.5x + 0.5(80 - x)$$

$$50 = 1.5x + 40 - 0.5x$$

$$x = 10 \text{ Km}$$

**52. Sol: (b)**

Let the number be  $x$ .

From the given question, we get

$$\left(\frac{3}{4}x - \frac{3}{14}x\right) = 150$$

$$\frac{21x - 6x}{28} = 150$$

$$\Rightarrow 15x = 4200$$

$$x = 280$$

**53. Sol: (d)**

Given that each of them have received Rs.25 Less. Therefore from the total amount Rs.75 will be reduced.

$$\text{Total amount} = 735 - 75 = 660$$

Assume the amount distributed as  $x$ ,  $3x$  and  $2x$ .

$$x + 3x + 2x = 660$$

$$\Rightarrow 6x = 660$$

$$\Rightarrow x = 110$$

$$\text{Amount received by C} = 2x + 25$$

$$= 220 + 25$$

$$= \text{Rs.}245$$

**54. Sol: (b)**

Quantity of milk in 16 litres of mix.

$$= 16 \times \frac{5}{8} = 10 \text{ litres.}$$

Quantity of milk in 20 litres of new mix.

$$= (10 + 4) \text{ litres.}$$

Quantity of water in it =  $(20 - 14)$  litres = 6 litres.

Therefore,

$$\text{Ratio of milk and water in the new mix.} = 14 : 6 \\ = 7 : 3.$$

**55. Sol: (d)**

Speed of Upstream =  $9/3 = 3$  Km/hr

Speed of Downstream =  $18/3 = 6$  Km/hr

$$\text{Speed of boat in still water} = \frac{1}{2}(6 + 3) = \frac{9}{2} \\ = 4\frac{1}{2} \text{ km/hr}$$

**56. Sol: (a)**

Work done by A in 4 days =  $\frac{1}{10} \times 4 = \frac{2}{5}$

Remaining Work =  $1 - \frac{2}{5} = \frac{3}{5}$

Now  $3/5$  work is done by B in 9 days.

Whole work will be done by B in  $\frac{5}{3} \times 9 = 15$  days.

A's 1 day work =  $1/10$

B's 1 day work =  $1/15$

(A+B)'s 1 day work =  $\frac{1}{10} + \frac{1}{15} = \frac{5}{30} = 1/6$

Hence A and B will together complete the work in 6 days.

**57. Sol: (a)**

Let the total no of mangoes in the crate be  $x$

Then the no of bruised mango =  $\frac{1}{30}x$

Let the no of unsalable mangoes =  $\frac{3}{4} \times \frac{1}{30}x$

$$\frac{1}{40}x = 12$$

$$\Rightarrow x = 480.$$

**58. Sol: (a)**

Assume, Rate of upstream = X kmph

Rate of downstream = Y kmph

$$\text{Then } \frac{30}{X} + \frac{44}{Y} = 10 \text{ ----(i)}$$

$$\text{And } \frac{40}{X} + \frac{55}{Y} = 13 \text{ ----(ii)}$$

On solving (i) and (ii), we get X = 5 and Y = 11

So, Rate of upstream = 5 km/hr

Rate of downstream = 11 km/hr

Rate of current =  $\frac{1}{2} \times (11 - 5)$  km/hr = 3 km/hr

**59. Sol: (d)**

Let the sum be x.

Then, Simple Interest = 40% of x =  $2x/5$ ;

Rate = 5%

**Simple Interest = PNR/100**

$$\begin{aligned} \text{Time} &= 100 \times \frac{2x}{5} \times \frac{1}{(x \times 5)} \\ &= 8 \text{ years.} \end{aligned}$$

**60. Sol: (c)**

Correct Sum =  $(36 \times 50 + 48 - 23) = 1825$ .

Correct mean =  $1825/50 = 36.5$

**61. Sol: (c)**

$$\begin{aligned} \text{Average of last 4 matches} &= \frac{(38.9 \times 10) - (42 \times 6)}{4} \\ &= \frac{(389) - (252)}{4} = 34.25 \end{aligned}$$

**62. Sol: (b)**

From the given question,

$$\begin{aligned} \frac{P \times \frac{25}{4} \times R}{100} &= \frac{3}{8} P \\ \Rightarrow \frac{25R}{400} &= \frac{3}{8} \Rightarrow R = 6\% \end{aligned}$$

**63. Sol: (b)**

Assume, Cost price = x

Selling price =  $1.25x$

New Cost price =  $x - 200$

Selling price =  $1.25x - 200$

Now,

$$1.3(x - 200) = 1.25x - 200$$

$$x = 1200$$

**64. Sol: (d)**

Relative Speed =  $(36 + 45)$  Km/hr

$$= 81 \text{ Km/hr}$$

$$= (81 \times \frac{5}{18}) \text{ m/sec}$$

$$= (45/2) \text{ m/sec}$$

$$\text{Length of the train} = \frac{45}{2} \times 8$$

$$= 180 \text{ m}$$

**65. Sol: (c)**

Let the Cost Price be x.

Then 92% of x = 368

$$\frac{92}{100} \times x = 368$$

$$\Rightarrow x = 368 \times \frac{25}{23} = 400$$

Cost Price = Rs.400: Gain = 15%

Selling Price =  $\frac{115}{100} \times 400 = \text{Rs. } 460$

**66. Sol: (b)**

Distance = 110 m.

Relative speed =  $60 + 6 = 66$  Kmph

$$= 66 \times \frac{5}{18} \text{ m/sec}$$

$$= \frac{55}{3} \text{ m/sec}$$

$$\begin{aligned} \text{Therefore time taken to pass the train} &= 100 \times \frac{3}{55} \\ &= 5.45 \approx 6s \end{aligned}$$

**67. Sol: (c)**

3 men or 4 women can plough the field in 43 days.

That is, 3 men = 4 women.

1 man =  $4/3$  women.

7 men =  $28/3$  women.

7 men and 5 women =  $(28/3) + 5 = 43/3$  women.

Given: 4 women can plough field in 43 days.

So, 1 woman can plough in =  $43 \times 4$  days.

Hence,

$43/3$  women can plough =  $(43 \times 4 \times 3)/43 = 12$  days.

**68. Sol: (a)**

Let the cost price of two watches be x and y

For 1<sup>st</sup> watch,

$$x \times \frac{105}{100} = 3750$$

$$x = 3572$$

For 2<sup>nd</sup> watch,

$$y \times \frac{95}{100} = \text{Rs. } 3750$$

$$y = \text{Rs. } 3947$$

Total cost price =  $3572 + 3947$

$$= \text{Rs. } 7519$$

Total selling price =  $3750 + 3750$

$$= \text{RS. } 7500$$

Loss =  $7519 - 7500 = \text{Rs. } 19$

$$\text{Loss \%} = \frac{19}{7519} \times 100$$

$$= 0.25\% \text{ loss}$$

**69. Sol: (d)**

**70. Sol: (c)**

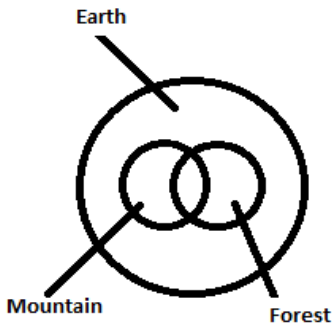
**71. Sol: (d)**

**72. Sol: (d)**

**73. Sol: (d)**

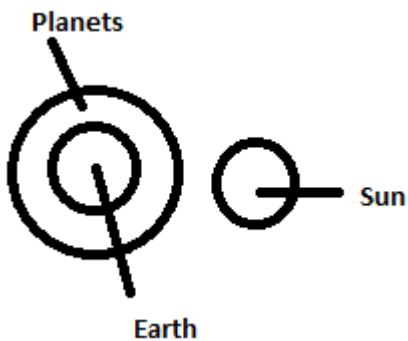
**74. Sol: (a)**

Mountains and forests are parts of Earth. But, some mountains are forested and some forests are mountainous.



**75. Sol: (b)**

Earth belongs to the class of Planets. But, Sun is entirely different from the two.



**76. Sol: (d)**

Some of the graduates are Teachers and players and Vice versa.

**77. Sol: (c)**

Three are different from each other.

**78. Sol: (a)**

**79. Sol: (c)**

**80. Sol: (d)**

**81. Sol: (b)**

Except Sydney all other are capitals.

**82. Sol: (c)**

The cornea, retina, and pupil are all parts of the **eye**.

**83. Sol: (d)**

Except Dottabetta, all others are caves.

**84. Sol: (a)**

Tibia related to bones.

**85. Sol: (a)**

Saltoro Kangri is a highest peak. All other are mountain pass.

**86. Sol: (d)**

**87. Sol: (a)**

**88. Sol: (c)**

**89. Sol: (d)**

**90. Sol: (c)**

**91. Sol: (d)**

**92. Sol: (c)**

**93. Sol: (a)**

**94. Sol: (a)**

**95. Sol: (d)**

**96. Sol: (b)**

Anatomy is a part of Zoology. Similarly Paediatrics is a part of Medicine.

**97. Sol: (b)**

Eccrinology is the study of secretions. Similarly, Selenography is the study of moon.

**98. Sol: (b)**

Virology deals with the effects of virus. Similarly, Semantics deals with the effects of language.

**99. Sol: (c)**

Tectonics is the Process related with the art of building. Similarly, Taxidermy is the art of preparing, stuffing, and mounting the skins of animals.

**100. Sol: (d)**

Annihilation means complete destruction or obliteration. It refers that First one is the result of second one.

## AFCAT – I 2016: Solved Paper

**Directions (Qs 1-4)** choose the word that best defines the given phrase

1. Beats me  
(a) To hit someone  
(b) To quarrel with a person  
(c) To not understand  
(d) To be silent
2. Cloak and dagger  
(a) To fight to a finish  
(b) To get into unexpected trouble  
(c) To end the hostility  
(d) Like a spy
3. To be at the end of ones tether  
(a) To feel offended  
(b) To draw moral attention  
(c) To have no resources left  
(d) To think deeply
4. I don't buy it  
(a) To refuse to purchase something  
(b) To give up  
(c) To decline an offer  
(d) To not be convinced

**Directions (Qs 5-10).** Select the most appropriate word from the options against is number

life is an (5) series of challenges and opportunities to be seized. You have to line for exercising the right career choice and (6) the right opportunities. Planned (7) rather than a hasty decision is (8) as far as your career is concerned. You need to (9) what occupational groups, (10) and types of organisations are suitable for you.

5. (a) Enticing (b) Exciting  
(c) Encharming (d) Enhancing
6. (a) Catching (b) Offsetting  
(c) Grabbing (d) Conceiving

7. (a) Delay (b) Hindrance  
(c) Application (d) Execution
8. (a) Desirable (b) Deciphered  
(c) Inevitable (d) Acceptable
9. (a) Check (b) Classify  
(c) Divide (d) Analyse
10. (a) Specifications (b) Limitations  
(c) Qualifications (d) Identification

**Directions (Qs 11-14).** Choose the correct spelt word

11. (a) Omminous (b) Omineous  
(c) Ominous (d) Omenous
12. (a) Hindrance (b) Hinderance  
(c) Hindrence (d) Hinderence
13. (a) Prejery (b) Perjury  
(c) Purjury (d) Perjary
14. (a) Reminiscene (b) Reminiscence  
(c) Reminincence (d) Remeniscence

**Directions (Qs 15-17).** Read the following passage carefully and answer the questions given below it

Recently, a newspaper article mourned the total disappearance of Common House Sparrow.

This was a comment on the city's perceptible move towards edging out the flora and fauna of the city. In the Rapid urbanisation, multi storied apartments grew and large-scale felling of trees became necessary. Last week, However seven pairs of the sparrow spotted in a suburb. Possibly the greenery of this place have created a new habitat for these birds which like their proximity to human beings and have made a comeback. A systematic development of trees and shurbs all over the city could woo the absentee house Sparrow to our midst.

## AFCAT – I 2016: Solved Paper

15. The passage the term 'urbanisation' has been used to refer
- (a) The destruction of greenery in the City
  - (b) Construction of concrete structures on large scale
  - (c) Change over from the rural life to the city life
  - (d) The movement of people from villages to cities
16. The phrase "absentee house Sparrow" refers to
- (a) The Sparrow that makes infrequent visits
  - (b) The Sparrow that has forgotten its habitat
  - (c) The Sparrow that has gone away from urban areas
  - (d) The Sparrow that has become extinct
17. According to the passage, the bird have made a comeback to the suburb because they
- (a) Have been hunted down by the village people
  - (b) Love to be amidst human beings
  - (c) Get food only where human beings live
  - (d) They have been deliberately brought back by biologists

**Directions (Qs 18-21) choose the word which is nearest in meaning of given word**

18. Abdicate
- (a) Join
  - (b) Search
  - (c) Advance
  - (d) Renounce
19. Acrimony
- (a) Spleen
  - (b) Courtesy
  - (c) Oriented
  - (d) Scarce
20. Embellish
- (a) Employ
  - (b) Arrange
  - (c) Decorate
  - (d) Design
21. Damp squib

- (a) Insignificant happening
- (b) An Old technique
- (c) Unsuccessful attempt
- (d) Short shrill cry

**Directions (Qs 22-25) choose the word which is nearly opposite in meaning to the given word**

22. Sporadic
- (a) Rare
  - (b) Frequent
  - (c) Sharp
  - (d) Coordinated
23. Exonerate
- (a) Rejected
  - (b) Contract
  - (c) Accuse
  - (d) Admit
24. Exodus
- (a) Homecoming
  - (b) Influx
  - (c) Restoration
  - (d) Return
25. Relinquish
- (a) Cede
  - (b) Abdicate
  - (c) Deny
  - (d) Posses

**Directions (Qs. 26-30) choose the word explains the meaning of following idioms**

26. all and sundry
- (a) Everybody without distinction
  - (b) Only rich person
  - (c) Together
  - (d) Selected people
27. To play second fiddle
- (a) To be happy cheerful and healthy
  - (b) To be in a subordinate position to someone
  - (c) To do back seat Driving
  - (d) To reduce importance of Once senior
28. A wolf in sheep's clothing
- (a) A hypocrite
  - (b) A wolf in woollen clothes
  - (c) A coward
  - (d) Proud man

## AFCAT – I 2016: Solved Paper

29. A blue stocking  
(a) Stocking which is blue in colour  
(b) A clean cheat  
(c) An unreliable person  
(d) A woman having literacy tastes and learning
30. Yeoman's service  
(a) Lip Service  
(b) To Serve Like A Slave  
(c) To Play God Father  
(d) Efficient Or Useful Help

**Directions (Qs 31-50)** choose the most appropriate answer

31. The book "China passage" was written by

- (a) Mj Akbar  
(b) Hello Jagmohan  
(c) Anees Jung  
(d) John Kenneth Galbraith

32. Global 500 awards are given for outstanding achievement in which of the following fields?

- (a) Population control  
(b) Elimination of illiteracy  
(c) Campaigning against aids  
(d) Protection of environment

33. Pulitzer Prize is awarded for the outstanding work in the field of

- a) Science And Technology  
b) Environmental Studies  
c) Literature And Journalism  
d) International Understanding

34. The national emblem viz four lions standing back to back is an adaptation from which of the following

- (a) Sarnath lions (b) Gir lions  
(c) Khajuraho (d) Ajanta Caves

35 which of the following books is written by Arnold Toynbee

- (a) Mankind And Mother Earth  
(b) Tom Sawyer  
(c) The Future Of Freedom  
(d) The Moon's Last Sigh

36. Which one of the following is the petroleum wax?

- (a) Paraffin Wax  
(b) Jonoba Wax  
(c) Carnauba Wax  
(d) Bees Wax

37. Who among the following is not a recipient of 'Bharatiya Jnanpith' Award?

- (a) Ashapurna Devi  
(b) MF Hussain  
(c) Raghupati Sahay  
(d) V K Gokak

38. Which city will host the 2022 Commonwealth Games?

- (a) Gold Coast, Australia  
(b) Durban, South Africa  
(c) Lusaka, Zambia  
(d) Nairobi, Kenya

39. Who was the person behind conversion of East India Company from A trading company into regional power?

- (a) Lord Warren Hastings  
(b) Lord Clive  
(c) Lord Dalhousie  
(d) Lord Wellesley

40. Which of the following Asian countries celebrates its independence day on 4th February?

- (a) Sri Lanka (b) Bahrain  
(c) Cambodia (d) Bangladesh

41 Natural radioactivity was discovered by?

- (a) Marie Curie  
(b) Ernest Rutherford  
(c) Henry Becquerel  
(d) Enrico Fermi

## AFCAT – I 2016: Solved Paper

42. The present Chairman of ISRO is?  
(a) MYS Prasad  
(b) Shailesh Nayak  
(c) A S Kiran Kumar  
(d) K Radhakrishnan
43. Who was the victory Boisar when the Simon Commission visited India?  
(a) Lord Chelmsford  
(b) Lord Reading  
(c) Lord Irvin  
(d) Lord Wellington
44. Mahatma Gandhi left South Africa to return to India in  
(a) 1911 (b) 1915  
(c) 1917 (d) 1919
45. Battle of Plassey was fought in  
(a) 1757 (b) 1782  
(c) 1748 (d) 1764
46. 'Mangalyaan' Mars Orbiter mission was launched in  
(a) January 2013 (b) October 2012  
(c) October 2013 (d) November 2013
47. 'Ruhr of India' known for its rich coal deposits is in the state of  
(a) Uttar Pradesh (b) Jharkhand  
(c) West Bengal (d) Bihar
48. The Indian space programme began in  
(a) 1951 (b) 1962  
(c) 1965 (d) 1969
49. Bachpan Bachao Andolan and organisations to protect the rights of children's was founded by  
(a) Amir Khan  
(b) Kailash satyarthi  
(c) Om Prakash Gurjar  
(d) Santa Sinha
50. The language of discourses of Gautama Buddha was  
(a) Bhojpuri (b) Magadhi  
(c) Pali (d) Sanskrit
51. Anmol sold 2 items for rupees 1000 each. On one, he gained 10% and on other he lost 10%. How much did a gain or lost in the whole transaction?  
(a) Profit 0.95 % (b) Loss 1%  
(c) Profit 10% (d) Loss 10%
52. The price of an item is decreased by 25%. What percent increase must be done in new price to get the original price?  
(a)  $33\frac{1}{3}\%$  (b)  $43\frac{3}{4}\%$   
(c)  $55\frac{2}{3}\%$  (d)  $65\frac{1}{4}\%$
53. A's Salary is 50% more than B's. How much percent is B's Salary less than A's?  
(a)  $63\frac{1}{4}\%$  (b)  $43\frac{1}{4}\%$   
(c)  $53\frac{1}{3}\%$  (d)  $33\frac{1}{3}\%$
54. In Arun's opinion, his weight is greater than 65 kgs but less than 72 kgs. His brother does not agree with Arun and he is things that Arun weight is greater than 60 kgs but less than 70 kg. His mother's view is that his weight can't be greater than 68 kgs. If all of them are correct and their estimation, what is the average of different probable rates of Arun?  
(a) 67 kgs (b) 68 kgs  
(c) 69 kgs (d) Data Inadequate
55. A train 150 metres long is running with a speed of 68 kmph. And what time will it pass a man who is running at 8 kilometres per hour in the same direction in which the train is going.  
(a) 8 seconds (b) 8.5 seconds  
(c) 9 seconds (d) 9.5 seconds
56. a and b can do a piece of work and 30 days while B and C can do the same work in 24 days and C and A in 20 days. They all work together for 10 days when B and C leave. How many days more will A take to finish the work?  
(a) 18 days (b) 24 days  
(c) 30 days (d) 36 days

## AFCAT – I 2016: Solved Paper

57. A sum was invested for 3 years at simple interest at a certain rate. Had it been invested at 4% higher rate of interest, it would have fetched 600 more. The sum is

- (a) Rupees 4000 (b) Rupees 4950  
(c) Rupees 5000 (d) Rupees 5150

58. The difference between simple and compound interest compounded annually on a certain sum of money for 2 years at 4% per annum is Rupee 1. The sum is

- (a) 625 (b) 630  
(c) 640 (d) 650

59. A man rows to a place 48 kilometres distance and come back in 14 hours. He finds that he can Row 4 kilometre with the stream in the same time as three kilometres against the stream. The rate of stream is

- (a) 1 kilometre per hour  
(b) 1.5 kilometre per hour  
(c) 2 kilometre per hour  
(d) 2.5 kilometre per hour

60. Income of Ram and Shyam are in the ratio of 3:4 and their expenditures and the ratio of 4:5, find the ratio of their savings, given that shyam saves a third of his income.

- (a) 10: 15 (b) 13:20  
(c) 15:20 (d) 13:15

61. A does  $\frac{1}{2}$  as much as B and C does  $\frac{1}{2}$  as much as a and b together. If C alone can finish the work in 40 days then together all will complete the work in

- (a) 30 days (b)  $13\frac{1}{3}$  days  
(c) 15 days (d) 20 days

62. A container contains 40 litres of milk. From this container 4 litres of milk was taken out and replaced by water. This process was repeated further 2 times. How much milk is now contained by the container?

- (a) 26.34 litres (b) 27.36 litres  
(c) 28 litres (d) 29.16 litres

63. A boat travels upstream from B to A and downstream from A to B in 3 hours. If the speed of boat in still water is 9 k mph and the speed of current is 3 kmph, the distance between A and B is

- (a) 9 kilometres (b) 10 kilometres  
(c) 11 kilometres (d) 12 kilometres

64. A sum of money lent out at simple interest pounds to rupees 720 after 2 years and to Rupees 1020 after a further period of 5 years. The sum is

- (a) Rupees 500 (b) Rupees 600  
(c) Rupees 700 (d) Rupees 750

65. Present age of x and y are in the ratio of 7:5. Respectively. 4 years hence the ratio of their ages will become 11:9. Respectively. What is the present age of Y?

- (a) 1 year (b) 7 years  
(c) 5 years (d) None of these

**Directions (Qs 66-70)** In each of the following questions find out the alternative which will replace the question mark

66. Cerebrum: Brain::?:?

- (a) Aorta: Hand  
(b) Ligament: Blood  
(c) Ventricle: Heart  
(d) Country: Universe

67. Wife: Marriage::?:?

- (a) Bank: Money  
(b) Nationality: Citizenship  
(c) Service: Qualification  
(d) Attendance: Register

68. Sadist: Injury::?:?

- (a) Opportunity: Generosity  
(b) Priest: Church  
(c) Dentist: Teeth  
(d) Thief: Robbery



# AFCAT – I 2016: Solved Paper

69. Lecherous: Cernel::?:?

- (a) Virile: Feeble
- (b) Diatribe: Abuse
- (c) Impede: Begin
- (d) Sunder: Link

70. Ignominy: Disloyalty::?:?

- (a) Death: Victory
- (b) Martyr: Man
- (c) Fame: Heroism
- (d) Destruction: Victory

**Directions (Qs 71-75)** In each of the following questions, four words have been given out of which 3 are alike in same manner, while fourth one is different. Choose the word which is different from the rest

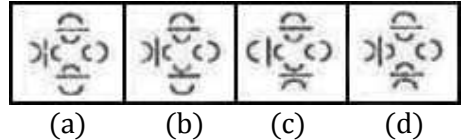
- 71. (a) Moth                      (b) Bee  
      (c) Lizard                (d) Aphid
- 72. (a) Tomato                (b) Gourd  
      (c) Brinjal                (d) Potato
- 73. (a) Gold                    (b) Silver  
      (c) Bronze                (d) Iron
- 74. (a) Mandicant            (b) Ascetic  
      (c) Pious                 (d) Hermit
- 75. (a) Bardoli                (b) Bhadravathi  
      (c) Porbandar            (d) Champaran

**DIRECTIONS (Qs 76-80):** For each of the following questions contains of five images marked 1,2,3,4,5 called the Problem figures followed by four other images marked (a), (b), (c) and (d) called Answer Figures. Select the Figures from the Answer Figures which will contain a range of four amongst the Answer.

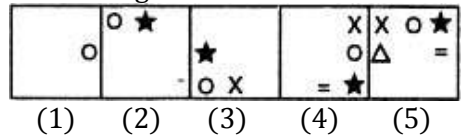
76. Problem Figures:



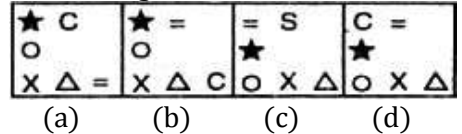
Answer Figures:



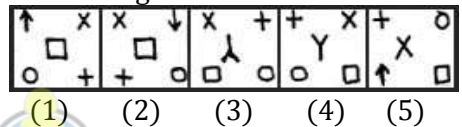
77. Problem Figures:



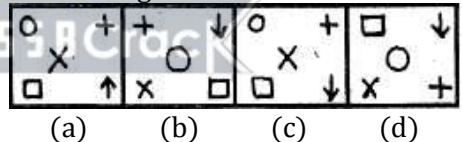
Answer Figures:



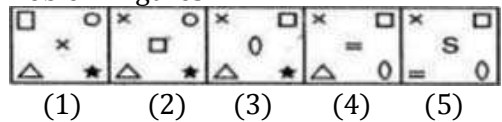
78. Problem Figures:



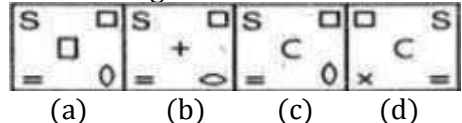
Answer Figures:



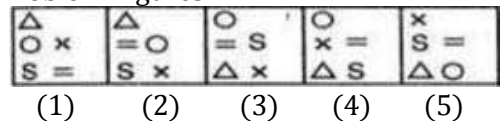
79. Problem Figures:



Answer Figures:

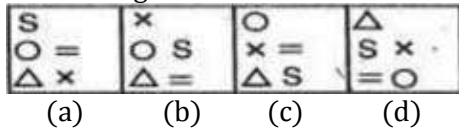


80. Problem Figures:



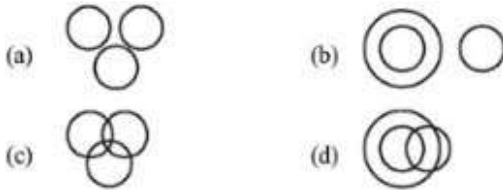
# AFCAT – I 2016: Solved Paper

Answer Figures:

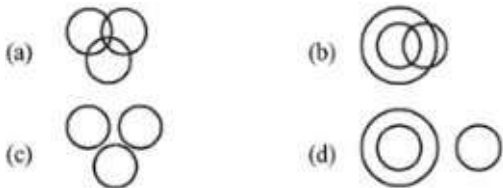


**DIRECTIONS (Qs 81-85):** Each of these questions given below contains three elements. These elements may or may not have some inter-linkage. Each group of elements may fit into one of these diagrams at (a), (b), (c) and (d). You have to indicate the group of elements which correctly fits into the diagrams.

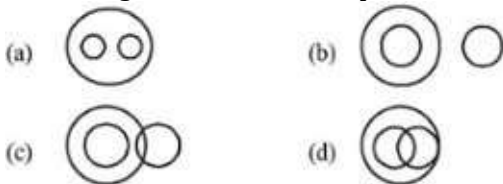
81. Which of the following diagrams indicates the best relation between Biology, Zoology and Physics?



82. Which of the following diagrams indicates the best relation between Stamp, Pen and Chalk?



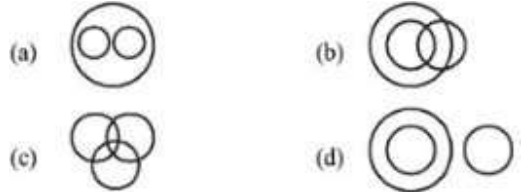
83. Which of the following diagrams indicates the best relation between Doctor, Human Beings and Married People?



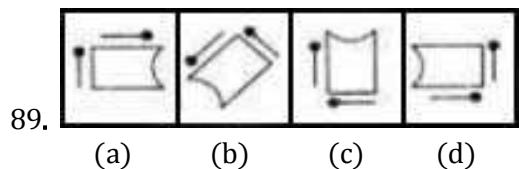
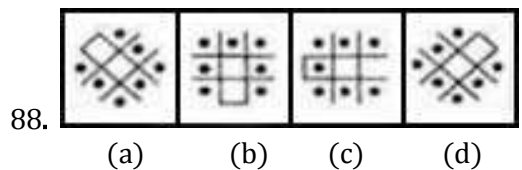
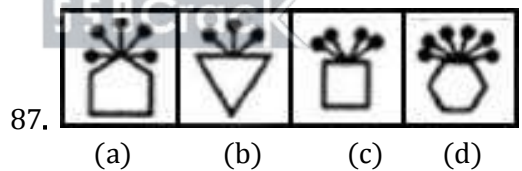
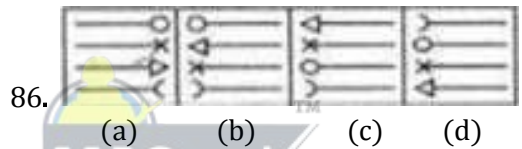
84. Which of the following diagrams indicates the best relation between Factory, Product and Machinery?



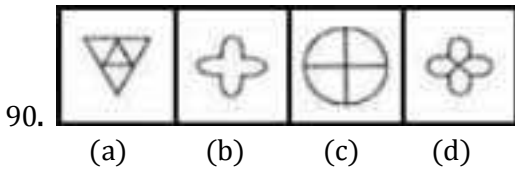
85. Which of the following diagrams indicates the best relation between Singers, Athletes and Girls?



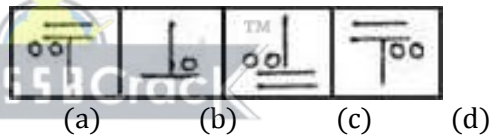
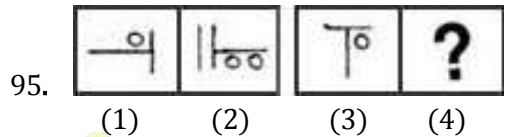
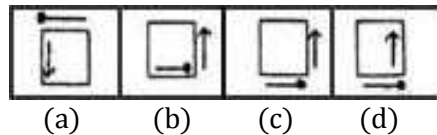
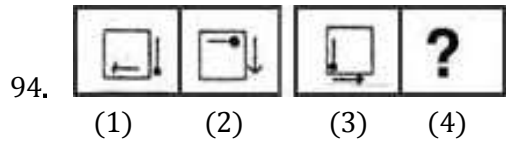
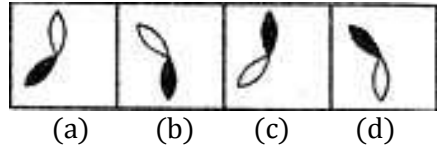
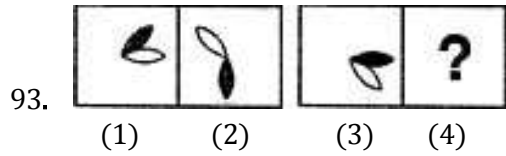
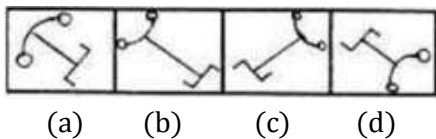
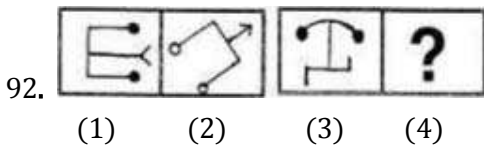
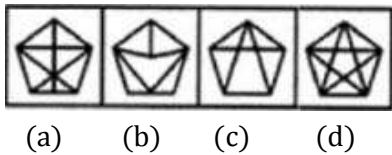
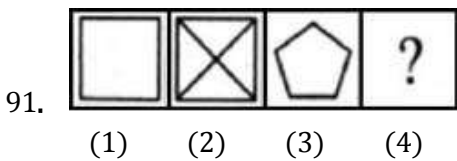
**DIRECTIONS (Qs 86-90):** In each problem, out of the four figures marked (a), (b), (c) and (d) three are similar in a certain manner. However, one figure is not like the other three. Choose the figure which is different from the rest.



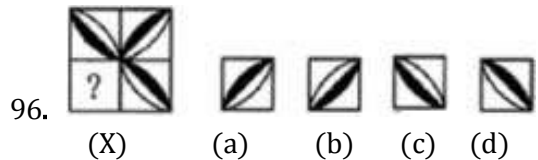
## AFCAT – I 2016: Solved Paper



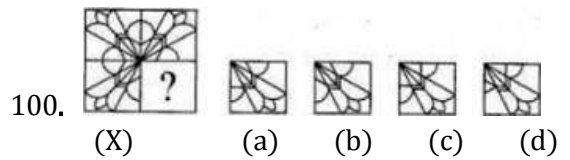
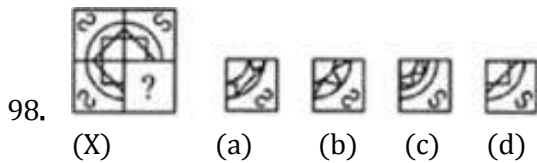
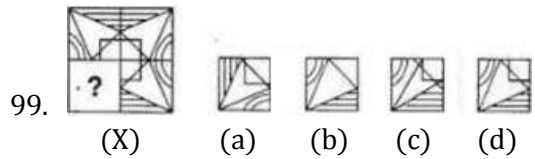
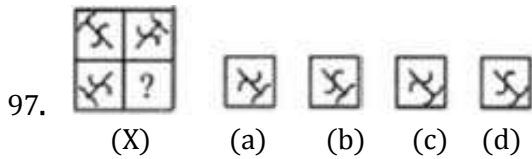
**DIRECTIONS (Qs 91-95):** Each of the following questions consists of two sets of figures. Figures (1), (2), (3) and (4) constitute the Problem Set while figures (a), (b), (c) and (d) constitute the Answer Set. There is a definite relationship between figures (1) and (2). Establish a similar relationship between figures (3) and (4) by selecting a suitable figure from the Answer set that would replace the question mark (?) in fig.(4).



**DIRECTIONS (Qs 96-100):** In each of the following questions, select a figure from amongst the four alternatives which when placed in the blank space of figure (X) would complete the pattern.



## AFCAT – I 2016: Solved Paper



### ANSWER KEY

|        |        |        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1. (c) | 2. (d) | 3. (d) | 4. (d) | 5. (b) | 6. (c) | 7. (d) | 8. (a) | 9. (a) | 10.(c) |
| 11.(c) | 12.(a) | 13.(b) | 14.(b) | 15.(b) | 16.(c) | 17.(b) | 18.(d) | 19.(a) | 20.(c) |
| 21.(a) | 22.(b) | 23.(c) | 24.(b) | 25.(d) | 26.(a) | 27.(b) | 28.(a) | 29.(d) | 30.(d) |
| 31.(d) | 32.(d) | 33.(c) | 34.(a) | 35.(a) | 36.(a) | 37.(b) | 38.(b) | 39.(b) | 40.(a) |
| 41.(a) | 42.(c) | 43.(c) | 44.(c) | 45.(a) | 46.(d) | 47.(b) | 48.(b) | 49.(b) | 50.(c) |
| 51.(b) | 52.(a) | 53.(d) | 54.(a) | 55.(c) | 56.(a) | 57.(c) | 58.(a) | 59.(a) | 60.(b) |
| 61.(b) | 62.(d) | 63.(d) | 64.(d) | 65.(c) | 66.(c) | 67.(c) | 68.(d) | 69.(b) | 70.(c) |
| 71.(c) | 72.(d) | 73.(c) | 74.(c) | 75.(b) | 76.(b) | 77.(c) | 78.(c) | 79.(c) | 80.(b) |
| 81.(b) | 82.(c) | 83.(d) | 84.(d) | 85.(c) | 86.(a) | 87.(a) | 88.(c) | 89.(d) | 90.(a) |
| 91.(d) | 92.(d) | 93.(d) | 94.(d) | 95.(c) | 96.(b) | 97.(d) | 98.(d) | 99.(d) | 100(b) |

# Air Force Common Admission Test

## Solved Paper AFCAT – 2/2015

**Directions:** Read the following passage carefully and answer the questions given below it:-

Patience is better than wisdom: An ounce of patience is worth a pound of brains. All men praise patience, but few can practise it. It is a medicine which is good for all diseases, but it is not every garden that grows the herbs to make it with. Many people are born crying, live complaining and die disappointed. They think every other person's burden to be light and their own feathers to be heavy as lead, and yet if the truth were known, it is their fancy rather than their fate that makes things go so hard with them. Many would be well off than what they think of.

**Q1.** Which of the following is the most suitable explanation to the author's remark that an "ounce of patience is worth a pound of brains"?

- (a) Wisdom can only be attained by practising patience.
- (b) Patience comes first, wisdom next.
- (c) Patience is essential for every achievement in life.
- (d) Without patience wisdom cannot be used properly.

**Answer (d)**

**Q2.** Which one is the most likely explanation, among the following, of the author's metaphorical statement that "it is not every garden that grows the herbs to make it with"?

- (a) Patience is a must for solving all our problems in life.
- (b) Patience is a rare herb that cures all diseases.
- (c) Patience is virtue of a highest order.
- (d) It is only a small number of people that are found observing patience in life.

**Answer (d)**

**Q3.** The writer's remarks, "They think every person's burden to be light and their own feathers to be as heavy as lead" is very significant. It means

- (a) They are always worried and dejected.
- (b) They consider their own problems to be difficult to solve as compared with problems of other people.
- (c) They feel that they alone face serious problems while others have a nice time.
- (d) They remain very much worried about their own problem.

**Answer (c)**

**Directions:** Select the most appropriate word from the options against each number:-

Life is an (4) series of challenges and opportunities to be seized. You have to plan for exercising the right career choices and (5) the right opportunities. Planned (6) rather than a hasty decision is (7) as far as your career is concerned. You need to (8) what occupational groups, (9) and type of organizations are suitable for you.

**Q4.** (a) Enticing                      (b) exciting                      (c) encharming                      (d) Enhancing

**Answer (b)**

- Q5. (a) catching (b) offsetting (c) grabbing (d) conceiving  
**Answer (c)**
- Q6. (a) delay (b) hindrance (c) application (d) execution  
**Answer (d)**
- Q7. (a) Desirable (b) deciphered (c) inevitable (d) acceptable  
**Answer (a)**
- Q8. (a) check (b) classify (c) divide (d) analyse  
**Answer (d)**
- Q9. (a) specifications (b) limitations (c) qualifications (d) identification  
**Answer (a)**

**Directions:** Choose the word which is nearest in meaning to the given word:-

- Q10. Nebulous (a) Tiny (b) Vague (c) Insignificant (d) Inadequate  
**Answer (b)**
- Q11. Debilitate (a) Weaken (b) Attack (c) Surmount (d) Destroy  
**Answer (a)**
- Q12. Anathema (a) Religious Chant (b) Pun (c) Musical Subject (d) Curse  
**Answer (d)**
- Q13. Penchant (a) Liking (b) Eagerness (c) Disability (d) Keeness  
**Answer (a)**

**Directions:** Choose the word which is nearly opposite in meaning to the given word:-

- Q14. Refractory (a) Refreshing (b) Burdensome (c) Privileged (d) Manageable  
**Answer (d)**
- Q15. Insolent (a) Sullen (b) Affable (c) Determined (d) Rich  
**Answer (b)**
- Q16. Acrimous (a) Legal (b) Severe (c) Cursive (d) Harmonious  
**Answer (d)**
- Q17. Sceptic (a) Cryptic (b) Believer (c) Support (d) Eminent  
**Answer (b)**

**Directions:** Choose the word that best defines the given phrases:-

**Q18.** To hold something in leash  
(a) To restrain (b) To disappoint (c) To dismiss (d) To discourage  
**Answer (a)**

**Q19.** To talk through one's hat  
(a) To speak fluently (b) To talk nonsense (c) To talk wisdom (d) To speak at random  
**Answer (b)**

**Q20.** To throw up the sponge  
(a) To surrender or give up a contest  
(b) To offer a challenge  
(c) To become utterly disappointed  
(d) To maintain grit and enthusiasm until the end  
**Answer (a)**

**Q21.** To get into hot waters  
(a) To be impatient  
(b) To suffer a huge financial loss  
(c) To get into trouble  
(d) To be in a confused state of mind  
**Answer (c)**

**Directions:** Choose the correctly spelt word:-

**Q22.** (a) Dolorous (b) Dolurous (c) Doloreus (d) Delorinous  
**Answer (a)**

**Q23.** (a) Condiut (b) Conduit (c) Connduit (d) Condeut  
**Answer (b)**

**Q24.** (a) Gragarious (b) Gragerious (c) Gregarious (d) Grigareous  
**Answer (c)**

**Q25.** (a) Intrensic (b) Intrinsic (c) Entrensic (d) Entrinsec  
**Answer (b)**

**Q26.** (a) Sepulchral (b) Sepalchrle (c) Sepalchral (d) Sepulchrle  
**Answer (a)**

**Directions:** Which word or words explains the meaning of the following Idioms:-

**Q27.** To flog a dead horse  
(a) To act in a foolish way (b) To waste one's efforts  
(c) To revive interest in an old subject (d) To revive old memories  
**Answer (b)**

- Q28.** A bull in a china shop  
(a) A person who is very ugly but loves the beautiful things of life  
(b) A person who takes a sadistic delight in harming innocent people  
(c) A person who becomes too excited where no excitement is warranted  
(d) A rough and clumsy person at a place where skill and care are required  
**Answer (d)**

- Q29.** The alpha and the omega  
(a) The beginning and the end  
(b) A nice act  
(c) The stars and the moon  
(d) Very costly  
**Answer (a)**

- Q30.** A fool's errand  
(a) A blunder (b) An impossible task (c) A useless undertaking (d) None of these  
**Answer (c)**

**Directions:** Choose the most appropriate answer:-

- Q31.** Serena Williams defeated \_\_\_\_\_ to win the women's singles title of Australian Open 2015.  
(a) Venus Williams (b) Sania Mirza (c) Maria Sharapova (d) Ana Ivanovic  
**Answer (c)**

- Q32.** Vinod Mehta an eminent Indian journalist and founder editor-in-chief of 'Outlook' published his autobiography by the name of  
(a) Lucknow Boy: A Memoir (b) One Life is Not Enough  
(c) Accidental Prime Minister (d) The Substance and the Shadow  
**Answer (a)**

- Q33.** Which city will host the 2022 Common Wealth Games?  
(a) Gold Coast, Australia (b) Durban, South Africa  
(c) Lusaka, Zambia (d) Nairobi, Kenya  
**Answer (b)**

- Q34.** What is the name of 'Innovative Council' proposed in the Rail Budget 2015 to promote innovation?  
(a) Rail Tech (b) Sankalp (c) Kayakalp (d) Navachar  
**Answer (c)**

- Q35.** Which of the following Asian countries celebrates its Independence Day on 4<sup>th</sup> February?  
(a) Sri Lanka (b) Bahrain (c) Cambodia (d) Bangladesh  
**Answer (a)**

- Q36.** Animals active at night are called  
(a) Diurnal (b) Nocturnal (c) Parasites (d) Nacto-diurnal  
**Answer (b)**

- Q37.** Think-tank of Government of India that replaced Planning Commission on 01 January 2015 is  
(a) NITI Vakya (b) NITI Dharma (c) NITI Vajpayee (d) NITI Aayog  
**Answer (d)**

- Q38.** The book, 'Born Again on the Mountain' is authored by  
(a) Pooja Rani (b) Arunima Sinha (c) Bachendri Pal (d) Urbashi Lal  
**Answer (b)**



- Q39.** The present chairman of ISRO is  
 (a) MYS Prasad (b) Shailesh Nayak (c) AS Kiran Kumar (d) K Radhakrishnan  
**Answer (c)**
- Q40.** Natural radioactivity was discovered by  
 (a) Marie Curie (b) Earnest Rutherford (c) Henry Bacquerel (d) Enrico Fermi  
**Answer (c)**
- Q41.** Sir C.V. Raman was awarded Noble Prize for his work connected with which of the following phenomenon of radiation?  
 (a) Scattering (b) Diffraction (c) Interference (d) Polarization  
**Answer (a)**
- Q42.** In which atmospheric layer are the communication satellites located?  
 (a) Stratosphere (b) Ionosphere (c) Troposphere (d) Mesosphere  
**Answer (b)**
- Q43.** Who was the Viceroy when the Simon Commission visited India?  
 (a) Lord Chelmsford (b) Lord Reading (c) Lord Irwin (d) Lord Wellington  
**Answer (c)**
- Q44.** Mahatma Gandhi left South Africa to return to India in  
 (a) 1911 (b) 1915 (c) 1917 (d) 1919  
**Answer (b)**
- Q45.** Todar Mal was associated with \_\_\_\_\_ in Akbar's durbar.  
 (a) Music (b) Literature (c) Finance (d) Law Reforms  
**Answer (c)**
- Q46.** Lines joining places of equal temperature are called  
 (a) Isotherms (b) Isohyets (c) Isomers (d) Isobars  
**Answer (a)**
- Q47.** Who has been awarded the Dada Saheb Phalke Award for the year 2014?  
 (a) Pran (b) Shashi Kapoor (c) Dilip Kumar (d) Amitabh Bachchan  
**Answer (b)**
- Q48.** How many days moon takes to revolve around the earth?  
 (a)  $26\frac{1}{3}$  (b)  $27\frac{1}{3}$  (c)  $28\frac{2}{3}$  (d)  $29\frac{1}{2}$   
**Answer (b)**
- Q49.** Indian-American music composer, Ricky Kej has won the Grammy Award for the album  
 (a) In the Lonely Hour (b) Morning Phase (c) Beyonce (d) Winds of Samsara  
**Answer (d)**
- Q50.** Recently tested Agni-V missile is capable of carrying nuclear payload of  
 (a) 1000 Kg (b) 1500 Kg (c) 2000 Kg (d) 2500 Kg  
**Answer (b)**
- Q51.** The Russian name of INS Vikramaditya is  
 (a) Admiral Groshkov (b) Admiral Gorbachev  
 (c) Admiral Nakhimov (d) Admiral Petr Bezobrazov  
**Answer (a)**

- Q52.** A boat travels upstream from B to A and downstream from A to B in 3 hours. If the speed of the boat in still water is 9 Km/h and the speed of the current is 3 Km/h, the distance between A and B is  
 (a) 9 km (b) 10 km (c) 11 km (d) 12 km  
**Answer (d)**
- Q53.** A steamer moves with a speed of 4.5 km/h in still water to a certain upstream point and comes back to the starting point in a river which flows at 1.5 km/h. The average speed of steamer for the total journey is  
 (a) 12 km/h (b) 9 km/h (c) 6 km/h (d) 4 km/h  
**Answer (d)**
- Q54.** A can do  $\frac{1}{2}$  of a piece of work in 8 days while B can do  $\frac{1}{3}$  of the same work in 8 days. In how many days can both do it together?  
 (a) 9.6 days (b) 10.5 days (c) 11.2 days (d) 16 days  
**Answer (a)**
- Q55.** A does  $\frac{1}{2}$  as much work as B and C does  $\frac{1}{2}$  as much work as A and B together. If C alone can finish the work in 40 days, then together all will finish the work in  
 (a) 30 days (b)  $13\frac{1}{3}$  days (c) 15 days (d) 20 days  
**Answer (b)**
- Q56.** A train 150 m long is running with a speed of 68 km/h. In what time will it pass a man who is running at 8 km/h in the same direction in which the train is going?  
 (a) 8 sec (b) 8.5 sec (c) 9 sec (d) 9.5 sec  
**Answer (c)**
- Q57.** A train covers a distance of 12 km in 10 min. If it takes 6 sec to pass a telegraph post, the length of the train is  
 (a) 90 m (b) 100 m (c) 120 m (d) 140 m  
**Answer (c)**
- Q58.** A's salary is 50% more than B's. How much percent is B's salary less than A's?  
 (a)  $63\frac{1}{4}\%$  (b)  $43\frac{1}{4}\%$  (c)  $53\frac{1}{3}\%$  (d)  $33\frac{1}{3}\%$   
**Answer (d)**
- Q59.** The price of an item is decreased by 25%. What percent increase must be done in new price to get the original price?  
 (a)  $33\frac{1}{3}\%$  (b)  $43\frac{3}{4}\%$  (c)  $55\frac{2}{3}\%$  (d)  $65\frac{1}{4}\%$   
**Answer (a)**
- Q60.** Anmol sold two items for Rs 1000 each. On one, he gained 10% and on other, he lost 10%. How much did he gain or lose in the whole transaction?  
 (a) profit, 0.95% (b) loss, 1% (c) profit, 10% (d) loss, 10%  
**Answer (b)**
- Q61.** If the selling price is doubled, the profit triples. The profit percent is  
 (a)  $66\frac{1}{3}\%$  (b) 150% (c) 100% (d) 90%  
**Answer (c)**

**Q62.** A man lent a sum of money at the rate of simple interest of 4%. If the interest for 8 years is Rs 340 less than the principal, the principal is  
 (a) Rs 500 (b) Rs 520 (c) Rs 540 (d) Rs 560  
**Answer (a)**

**Q63.** A sum was invested for 3 years at simple interest at a certain rate. Had it been invested at 4% higher rate of interest, it would have fetched Rs 600 more. The sum is  
 (a) Rs 4000 (b) Rs 4950 (c) Rs 5000 (d) Rs 5150  
**Answer (c)**

**Q64.** The average weight of 50 boys in a class is 45 Kg. When one boy leaves the class, the average reduces by 100g. Find the weight of the boy who left the class  
 (a) 50 Kg (b) 50.8 Kg (c) 49 Kg (d) 49.9 Kg  
**Answer (d)**

**Q65.** In a mixture of 35 litres, the ratio of milk and water is 4:1. If 7 litres of water is added to the mixture, the ratio of milk and water of the new mixture will be  
 (a) 2:1 (b) 1:2 (c) 4:5 (d) 5:4  
**Answer (a)**

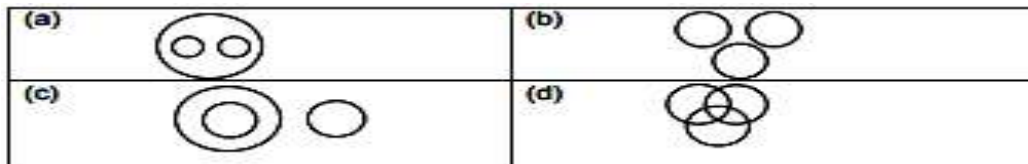
**Directions:** Each of these questions given below contains three elements. These elements may or may not have some inter-linkage. Each group of elements may fit into one of these diagrams at (a), (b), (c) or (d). you have to indicate the group of elements which correctly fits into the diagrams.

**Q66.** Which of the following diagrams indicates the best relation between Females, Doctors, and Patients?



**Answer (c)**

**Q67.** Which of the following diagrams indicates the best relation between Detectives, Spies and Men with Beards?



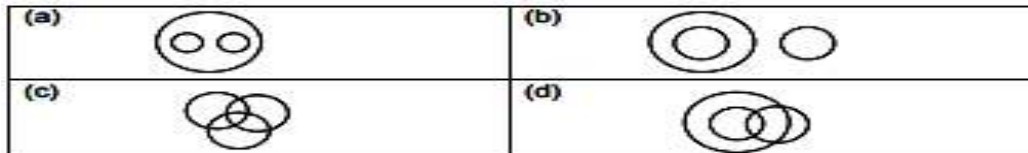
**Answer (d)**

**Q68.** Which of the following diagrams indicates the best relation between Males, Fathers and Human Being?



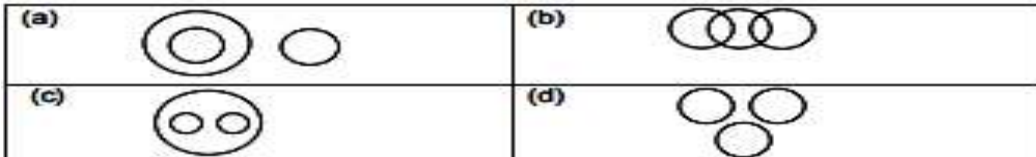
**Answer (c)**

**Q69.** Which of the following diagrams indicates the best relation between Steel, Wood, and Building Material?



**Answer (a)**

**Q70.** Which of the following diagrams indicates the best relation between Doctors, Teachers and Engineers?



**Answer (b)**

**Directions:** In each of the following questions find out the alternative which will replace the question mark

**Q71.** Blizzard : Freeze :: ??:

- (a) Insult : Humiliation  
(c) Caution : Careless

- (b) Bad : Immora  
(d) Jealousy : Respect

**Answer (a)**

**Q72.** Graceful : Clumsy :: ??:

- (a) Horror : Sympathy  
(c) Recapitulate : Synopsis

- (b) Laugh : Cry  
(d) Encumber : Burden

**Answer (b)**

**Q73.** Zenith : Nadir :: ??:

- (a) Indigent : Poverty  
(c) Success : Peak

- (b) Zeal : Eagerness  
(d) Genuine : Phony

**Answer (d)**

**Q74.** Pedagogy : Teaching :: ??:

- (a) Telepathy : Emotions  
(c) Mycology : Fossils

- (b) Radiology : Sound  
(d) Entomology : Insects

**Answer (d)**

**Q75.** Capriciousness : Reliability :: ??:

- (a) Heated : Boiling  
(c) Arbitrary : Whimsical

- (b) Tenacious : Practicality  
(d) Unreliable : Inhuman

**Answer (b)**

**Directions:** In each of the following questions, four words have been given out of which three are alike in some manner, while the fourth one is different. Choose the word which is different from the rest.

**Q76.** (a) Niagara (b) Alamere (c) Kemty (d) Andes

**Answer (d)**

- Q77. (a) Small Betrayals (b) We Indians (c) Shooting from the Hip (d) Surviving Men  
**Answer (b)**
- Q78. (a) Brass (b) Bronze (c) Silver (d) Steel  
**Answer (c)**
- Q79. (a) Documentary (b) Puppet (c) Commentary (d) Feature  
**Answer (c)**
- Q80. (a) Deccan (b) Kaas (c) Chhota Nagpur (d) Nanda Devi  
**Answer (d)**

**Directions:** In each of the following questions, select a figure from amongst the four alternatives, which when placed in the blank space of figure (X) would complete the pattern.

Q81.

(X) (a) (b) (c) (d)

**Answer (d)**

Q83.

(X) (a) (b) (c) (d)

**Answer (b)**

Q82.

(X) (a) (b) (c) (d)

**Answer (c)**

Q84.

(X) (a) (b) (c) (d)

**Answer (c)**

Q85.

(X) (a) (b) (c) (d)

**Answer (d)**

**Directions:** Each of the following questions consists of five figures marked 1,2,3,4 and 5 called the Problem Figures followed by four other figures marked (a), (b), (c) and (d) called the Answer Figures. Select a figure from amongst the Answer Figures which will continue the same series as established by the five Problem Figures.

Q86.

**Problem Figures:**

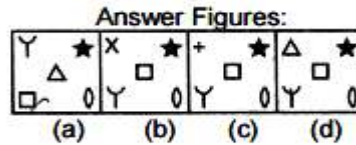
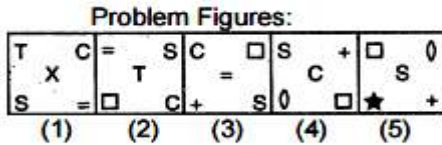
(1) (2) (3) (4) (5)

**Answer (c)**

**Answer Figures:**

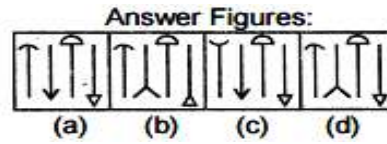
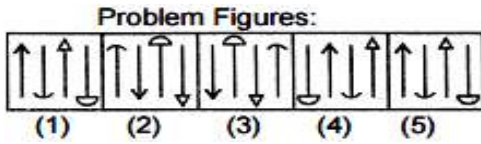
(a) (b) (c) (d)

Q87



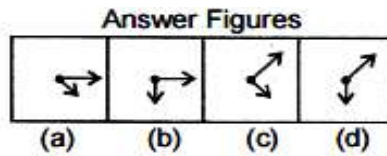
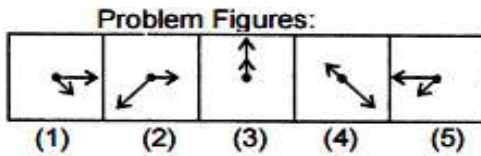
Answer (a)

Q88.



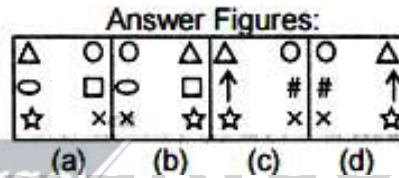
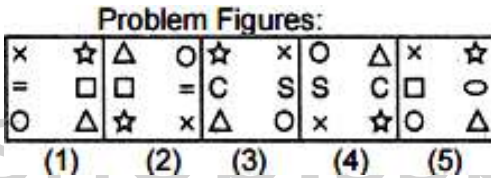
Answer (a)

Q89.



Answer (d)

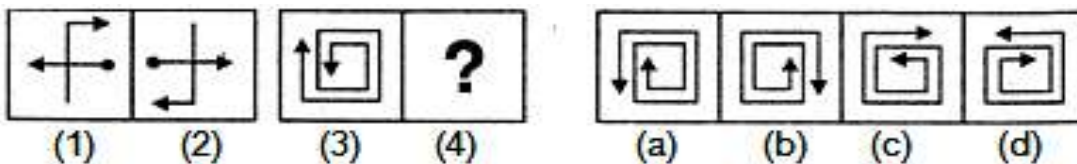
Q90.



Answer (a)

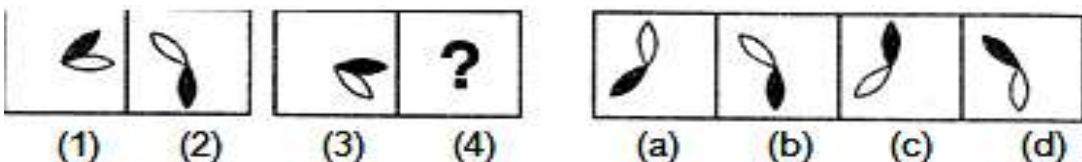
**Directions:** Each of the following questions consists of two sets of figures. Figures 1, 2, 3 and 4 constitute the Problem Set while figures (a), (b), (c) and (d) constitute the Answer Set. There is a definite relationship between figures (1) and (2). Establish a similar relationship between figures (3) and (4) by selecting a suitable figure from the Answer Set that would replace the question mark (?) in fig.(4).

Q91.



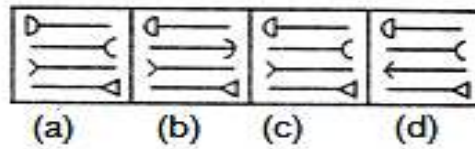
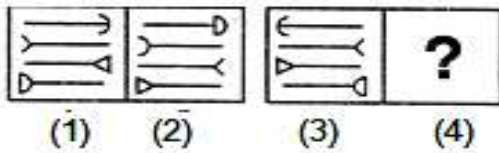
Answer (b)

Q92.



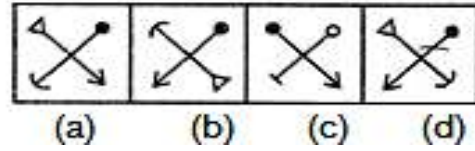
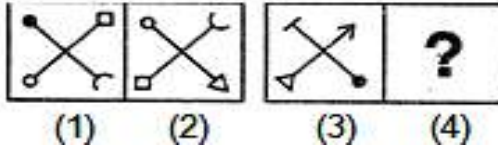
Answer (a)

Q93.



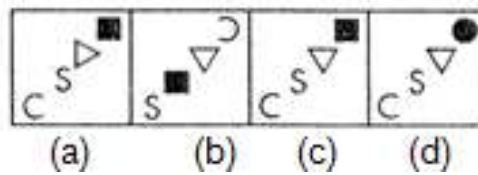
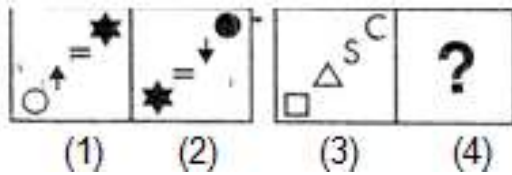
Answer (d)

Q94.



Answer (d)

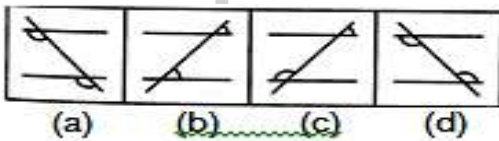
Q95.



Answer (c)

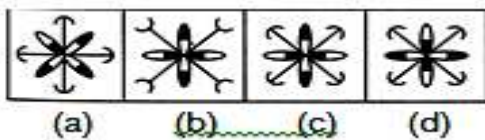
**Directions:** In each problem, out of the four figures marked (a) (b) (c) and (d), three are similar in a certain manner. However, one figure is not like the other three. Choose the figure which is different from the rest.

Q96.



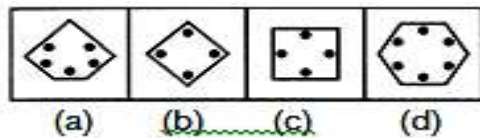
Answer (c)

Q97.



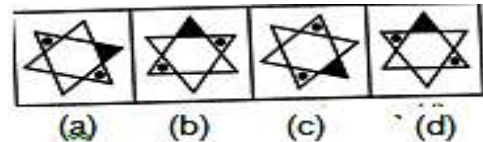
Answer (a)

Q98.



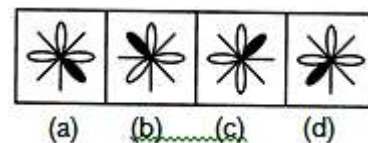
Answer (b)

Q99.



Answer (d)

Q100.



Answer (b)

# Air Force Common Admission Test

## Solved Paper AFCAT – I/2015

**Directions:** Which word or words explains the meaning of the following idioms:-

- Q1.** In a jiffy  
(a) Outstanding (b) Suddenly (c) In a fix (d) Appropriate  
**Answer (b)**
- Q2.** Upto the hilt  
(a) Completely (b) Upto the mark (c) Upto the final decision (d) None of these  
**Answer (a)**
- Q3.** Man of Letters  
(a) Who writes too many letters (b) An important person (c) A politician (d) A literary person  
**Answer (d)**
- Q4.** Sangfroid  
(a) Composure (b) Go on leave (c) Changed Suddenly (d) Make an attempt  
**Answer (a)**

**Directions:** Select the most appropriate word from the options against each number:-

As home entertainment, television is rapidly becoming more (5) than any other form. A news broadcast becomes more immediate when people (6) actually see the scene (7) question and the movement of the figures. Films could be viewed in the (8) of the home and a variety of shows are also available. One of the advantages of travel programmes is the (9) of faraway places which many viewers would not (10) see.

- Q5.** (a) interesting (b) popular (c) powerful (d) purposeful  
**Answer (c)**
- Q6.** (a) could (b) would (c) might (d) shall  
**Answer (a)**
- Q7.** (a) of (b) with (c) as (d) in  
**Answer (a)**
- Q8.** (a) surroundings (b) assistance (c) comfort (d) privilege  
**Answer (c)**
- Q9.** (a) glimpses (b) image (c) portrait (d) picture  
**Answer (a)**
- Q10.** (a) possible (b) rather (c) else (d) otherwise  
**Answer (d)**



**Directions:** Choose the word which is nearest in meaning to the given word:-

- Q11.** Sporadic  
(a) Epidemic (b) Whirling (c) Occasional (d) Stagnant  
**Answer (c)**
- Q12.** Genesis  
(a) Style (b) Beginning (c) Movement (d) Relevant  
**Answer (b)**
- Q13.** Intransigent  
(a) Authoritative (b) Impersonal (c) Strenuous (d) Unbending  
**Answer (d)**
- Q14.** Intimidate  
(a) Mislead (b) Misplace (c) Frighten (d) Demoralise  
**Answer (c)**

**Directions:** Choose the word which is nearly opposite in meaning to the given word:-

- Q15.** Clemency  
(a) Corporal (b) Intolerance (c) Compromise (d) Sensibility  
**Answer (a)**
- Q16.** Cajole  
(a) Nestle (b) Secede (c) Bully (d) Moisten  
**Answer (c)**
- Q17.** Malevolent  
(a) Kindly (b) Vacuous (c) Ambivalent (d) Primitive  
**Answer (a)**
- Q18.** Purgatory  
(a) Reward (b) Celestial (c) Flawless (d) Proximity  
**Answer (b)**

**Directions:** Read the following passage carefully and answer the questions given below it:-

### Passage

In spring, polar bear mothers emerge from dens with three months old cubs. The mother bear has fasted for as long as eight months but that does not stop the young from demanding full access to her remaining reserves. If there are triplets, the most persistent stands to gain an extra meal at the expense of others. The smallest of the cubs forfeits many meals to stronger siblings. Females are protective of their cubs but tend to ignore family rivalry over food. In 21 years of photographing polar bears, I have only once seen the smallest of triplets survive till autumn.

- Q19.** With reference to the passage, the following assumptions have been made:-  
I. Polar bears fast as long as eight months due to non-availability of prey.  
II. Polar bears always give birth to triplets.  
Which of the assumptions given above is/ are true?  
(a) I only (b) II only (c) Both I and II (d) Neither I nor II  
**Answer (d)**

**Q20.** Female polar bears give birth during  
(a) Spring (b) Summer (c) Autumn (d) Winter

**Answer (d)**

**Q21.** Mother bear  
(a) Takes sides over cubs (b) Lets the cubs fend for themselves  
(c) Feeds only their favourites (d) Sees that all cubs get an equal share

**Answer (a)**

**Directions:** Choose the word that best defines the given phrases:-

**Q22.** A Curtain Lecture  
(a) To speak plainly (b) Vulgar Ideas  
(c) Private scolding of a husband by his wife (d) Hate others

**Answer (c)**

**Q23.** Square pegs in round holes  
(a) A genuinely helpful person (b) A Clever person  
(c) People in the wrong jobs (d) To be perplexed

**Answer (c)**

**Q24.** In weal and woe  
(a) By hook or crook (b) During illness  
(c) in prosperity and adversity (d) During the operation

**Answer (c)**

**Q25.** Globetrotters  
(a) People against global philosophy (b) People indulging in treachery  
(c) Intelligent minds (d) Travellers around the world

**Answer (d)**

**Directions:** Choose the correctly spelt word:-

**Q26.** (a) Konnoisseur (b) Connoisseur (c) Connoisseur (d) Konoisseur  
**Answer (c)**

**Q27.** (a) Munifisent (b) Muneficent (c) Munificent (d) Munificent  
**Answer (c)**

**Q28.** (a) Equanimity (b) Equannimity (c) Equanimmisty (d) Equinimity  
**Answer (a)**

**Q29.** (a) Vetarinary (b) Veteninary (c) Veterinary (d) Vetniary  
**Answer (c)**

**Directions:** Choose the most appropriate answer:-

**Q30.** A, B and C can do a piece of work in 20, 30 and 60 days respectively. In how many days can A do the work if he is assisted by B and C on every third day?  
(a) 12 days (b) 15 days (c) 16 days (d) 18 days  
**Answer (b)**

- Q31.** A man can row 9/Kmph in still water and finds that it takes him thrice as much time to row up than as to row down the same distance in the river. The speed of the current is  
 (a)  $3\frac{1}{3}$  Kmph      (b)  $3\frac{1}{9}$ Kmph      (c)  $4\frac{2}{3}$  Kmph      (d)  $4\frac{1}{3}$  Kmph  
**Answer (c)**
- Q32.** The speed of a boat in still water is 10 Kmph. If it can travel 26 Km downstream and 14 Km upstream in the same time, the speed of the stream is  
 (a) 2 Kmph      (b) 2.5 Kmph      (c) 3 Kmph      (d) 4 Kmph  
**Answer (c)**
- Q33.** If a sum becomes double in 16 years, how many times will it be in 8 years?  
 (a)  $1\frac{1}{2}$  times      (b)  $1\frac{1}{3}$  times      (c)  $1\frac{3}{4}$  times      (d)  $1\frac{1}{4}$  times  
**Answer (a)**
- Q34.** In how many years will a sum of Rs 800 at 10% per annum compounded semi-annually become Rs 926.10 ?  
 (a)  $1\frac{1}{3}$       (b)  $1\frac{1}{2}$       (c)  $2\frac{1}{3}$       (d)  $2\frac{1}{2}$  times  
**Answer (b)**
- Q35.** A sells 2 TV sets, one at a loss of 15% and another at a profit of 15%. Find the loss/gain percentage in the overall transaction?  
 (a) 2.25%      (b) 3%      (c) 4%      (d) No profit, no loss  
**Answer (a)**
- Q36.** A man travelled from a point A to B at the rate of 25 Kmph and walked back at the rate of 4 Kmph. If the whole journey took 5 hrs 48 minutes, the distance between A and B is  
 (a) 30 Km      (b) 24 Km      (c) 20 Km      (d) 51.6 Km  
**Answer (c)**
- Q37.** A Train travelling at a uniform speed clears a platform 200 m long in 10 seconds and passes a telegraph post in 5 seconds. The speed of the train is  
 (a) 36 km/h      (b) 39 km/h      (c) 144 km/h      (d) 78 km/h  
**Answer (c)**
- Q38.** The price of sugar increases by 20% due to the festive season. By what percentage should a family reduce the consumption of sugar so that there is no change in the expenditure?  
 (a) 20%      (b)  $18\frac{1}{3}\%$       (c)  $16\frac{2}{3}\%$       (d)  $16\frac{1}{3}\%$   
**Answer (c)**
- Q39.** A's salary is 20% lower than B's salary, which is 15% lower than C's salary. By how much percent is C's salary more than A's salary?  
 (a) 44.05%      (b) 45.05%      (c) 46.05%      (d) 47.05 %  
**Answer (d)**
- Q40.** The average weight of 5 men is increased by 2 Kg when one of the men whose weight is 60 Kg is replaced by a new man. The weight of the new man is  
 (a) 50 Kg      (b) 65 Kg      (c) 68 Kg      (d) 70 Kg  
**Answer (d)**

- Q41.** A and B can do a piece of work in 18 days; B and C can do it in 24 days, A and C can do it in 36 days. In how many days B alone can finish the work?  
(a) 48 days (b) 45 days (c)  $28 \frac{4}{5}$  days (d) 144 days  
**Answer (c)**
- Q42.** The opposition party status is accorded to a political party in the Lok Sabha only if it captures at least  
(a) 5% Seats (b) 10% Seats (c) 15% Seats (d) 20% Seats  
**Answer (b)**
- Q43.** Who amongst the following is the author of the book 'A Bend in the River'?  
(a) Chetan Bhagat (b) VS Naipaul (c) Kiran Desai (d) Anita Desai  
**Answer (b)**
- Q44.** 'Long Walk to Freedom' is a book written by  
(a) Sonia Gandhi (b) LK Advani (c) Nelson Mandela (d) Benazir Bhutto  
**Answer (c)**
- Q45.** Which sports personality has been awarded the honorary rank of Group Captain by the IAF?  
(a) Kapil Dev (b) Sania Mirza (c) Saina Nehwal (d) Sachin Tendulkar  
**Answer (d)**
- Q46.** Which country among the following has been declared Ebola-free by WHO?  
(a) Sierra Leone (b) Liberia (c) Nigeria (d) Guinea  
**Answer (c)**
- Q47.** How many Gold medals did India win in the Incheon Asian Games held in Oct 2014?  
(a) 10 (b) 11 (c) 12 (d) 8  
**Answer (b)**
- Q48.** Who has been appointed as the new Finance Secretary of India?  
(a) Arvind Mayaram (b) Rajiv Mehrishi (c) Kaushik Basu (d) Dinesh Gupta  
**Answer (a)**
- Q49.** Which among the following is India's first long range subsonic cruise missile?  
(a) Agni II (b) Prithvi (c) Dhanush (d) Nirbhay  
**Answer (d)**
- Q50.** The branch of science that studies cells is called  
(a) Cytology (b) Entomology (c) Homoplastic (d) Hormonology  
**Answer (a)**
- Q51.** How many Vice Presidents are elected at the start of its each regular session of UN General Assembly?  
(a) Nine (b) Fifteen (c) Two (d) Twenty one  
**Answer (d)**

- Q52.** The highest civilian award of India 'Bharat Ratna' has been awarded to only two foreigners so far. One of them is Nelson Mandela. The other is  
(a) Marshal Tito (b) Mikhail Gorbachev (c) Khan Abdul Ghaffar Khan (d) Abdul Wali Khan  
**Answer (c)**
- Q53.** Sir CV Raman was awarded Nobel Prize for his work connected with which of the following phenomenon of radiation?  
(a) Scattering (b) Diffraction (c) Interference (d) Polarisation  
**Answer (a)**
- Q54.** In which city is headquarters of Asian Development Bank located?  
(a) Manila (b) Singapore (c) Bangkok (d) Jakarta  
**Answer (a)**
- Q55.** K-15 missile is  
(a) Submarine launched Ballistic Missile (SLBM) (b) Inter Continental Ballistic Missile (ICBM)  
(c) Medium Range Ballistic Missile (MRBM) (d) Short Range Ballistic Missile (SRBM)  
**Answer (a)**
- Q56.** India agreed to UN Chief Ban Ki-Moon's offer to remain as a member of the advisory board of one of the following recently.  
(a) UNCCT (b) UNICEF (c) UNEP (d) UNCTAD  
**Answer (a)**
- Q57.** Kaziranga National Park is famous for  
(a) One-horned Rhinos (b) Tigers (c) Swamp Dears ( Barasingha) (d) Elephants  
**Answer (a)**
- Q58.** Who was the first Indian to win an individual medal in Olympics?  
(a) Milkha Singh (b) PT Usha (c) Karnam Malleshwari (d) KD Jadhav  
**Answer (d)**
- Q59.** Who among the following was the Congress President at Madras Session of 1927 when it boycotted the Simon Commission?  
(a) Maulana Abul Kalam Azad (b) MA Ansari (c) Lala Lajpat Rai (d) Subhash Chandra Bose  
**Answer (b)**
- Q60.** Why did Kalinga prove to be a turning point in the life of Ashoka?  
(a) Ashoka annexed Kalinga (b) It was the starting point of the expansion of his empire  
(c) Ashoka became a zealous Buddhist (d) It enabled Mauryan Empire to reach its climax  
**Answer (c)**
- Q61.** Which of the following wings was not part of the espionage system described by Kautilya?  
(a) Crime Branch (b) Special Branch (c) Political Branch (d) None of these  
**Answer (b)**
- Q62.** Alauddin Khalji did not build  
(a) Siri Fort (b) Tomb of Jalaluddin (c) Hauz-i-Alai (d) Jamaat Khana Masjid  
**Answer (b)**

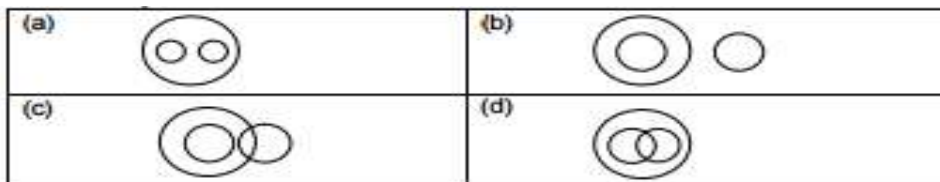
- Q63.** Which of the following dynasties was ruling over North India at the time of Alexander's invasion?  
 (a) Nanda (b) Maurya (c) Sunga (d) Kanva  
**Answer (a)**
- Q64.** Which of the following Intercontinental Ballistic Missiles (ICBMs) is under development in India?  
 (a) Agni-I (b) Agni-II (c) Agni-IV (d) Agni-VI  
**Answer (d)**
- Q65.** Who among the following was adjudged as the Most Valuable Player of the 17th Asian Games held at Incheon, South Korea?  
 (a) Mary Kom of India (b) Kosuke Hagino of Japan (c) Ning Zetao of China (d) None of these  
**Answer (b)**

**Directions:** In each of the following questions find out the alternative which will replace the question mark.

- Q66.** East : Orient :: ??  
 (a) North : Polar (b) North : Tropic (c) South : Capricorn (d) West : Occident  
**Answer (a)**
- Q67.** Ignominy : Disloyalty :: ??  
 (a) Death : Victory (b) Martyr : Man (c) Fame : Heroism (d) Destruction : Victory  
**Answer (c)**
- Q68.** Loath : Coercion :: ??  
 (a) Detest : Caressing (b) Irritate : Caressing (c) ) Irate : Antagonism (d) Reluctant : Persuasion  
**Answer (c)**
- Q69.** Trilogy : Novel :: ??  
 (a) Rice : Husk (b) Milk : Cream (c) Serial : Episode (d) Gun : Cartridge  
**Answer (c)**
- Q70.** Wife : Marriage :: ??  
 (a) Bank : Money (b) Nationality : Citizenship (c) Service : Qualification (d) Attendance : Register  
**Answer (c)**

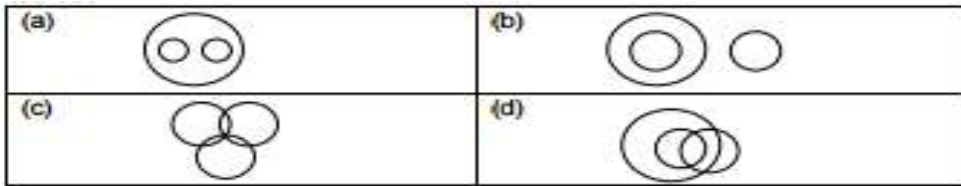
**Directions:** Each of these questions given below contains three elements. These elements may or may not have some inter-linkage. Each group of elements may fit into one of these diagrams at (a), (b), (c) or (d). You have to indicate the group of elements which correctly fits into the diagrams.

- Q71.** Which of the following diagrams indicates the best relation between Doctors, Human Beings and Married People?



**Answer (d)**

**Q72.** Which of the following diagrams indicates the best relation between Children, Naughty, and Studious?



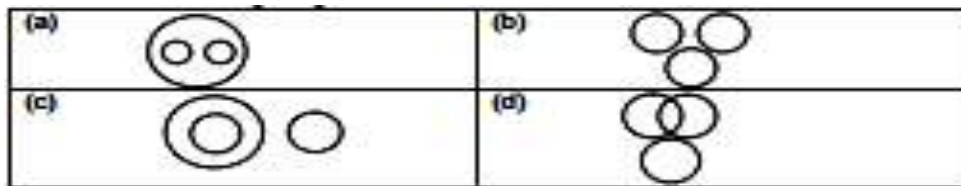
**Answer (c)**

**Q73.** Which of the following diagrams indicates the best relation between Thief, Criminal and Police?



**Answer (a)**

**Q74.** Which of the following diagrams indicates the best relation between Man, Worker and Garden?



**Answer (d)**

**Q75.** Which of the following diagrams indicates the best relation between Males, Cousins and Nephews?



**Answer (d)**

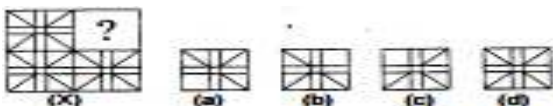
**Directions:** *In each of the following questions, select a figure from amongst the four alternatives, which when placed in the blank space of figure (X) would complete the pattern.*

**Q76.**



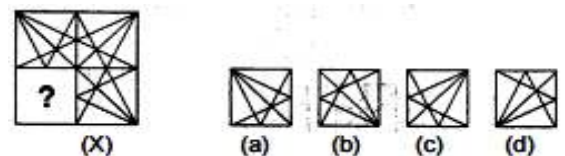
**Answer (b)**

**Q77.**



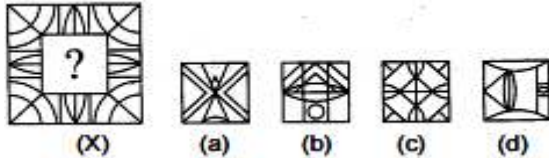
**Answer (d)**

**Q78.**



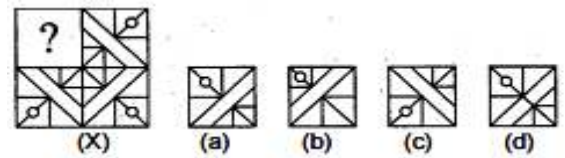
**Answer (d)**

Q79.



Answer (c)

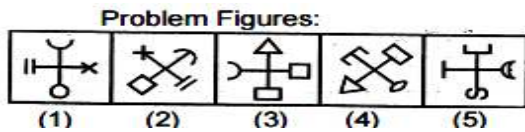
Q80.



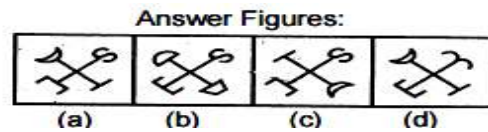
Answer (a)

**Directions:** Each of the following questions consists of five figures marked 1,2,3,4 and 5 called the Problem Figures followed by four other figures marked a, b, c and d called the Answer Figures. Select a figure from amongst the Answer Figures which will continue the same series as established by the five Problem Figures.

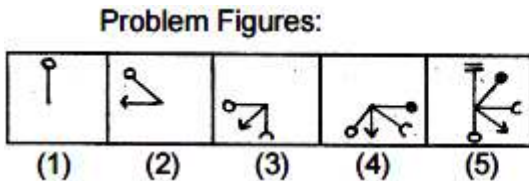
Q81.



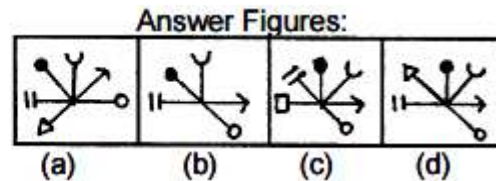
Answer (d)



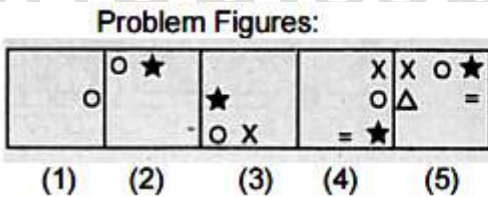
Q82.



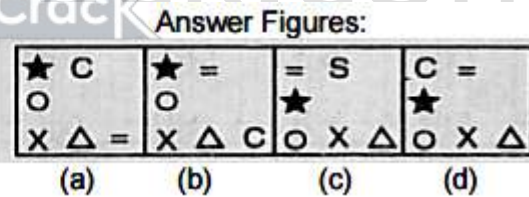
Answer (c)



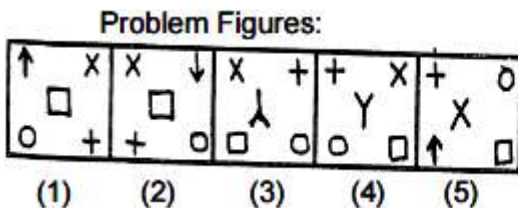
Q83.



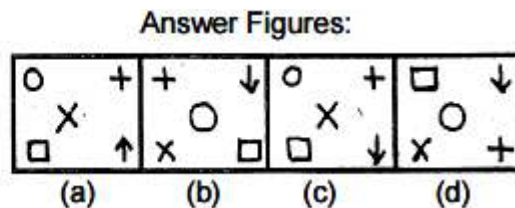
Answer (c)



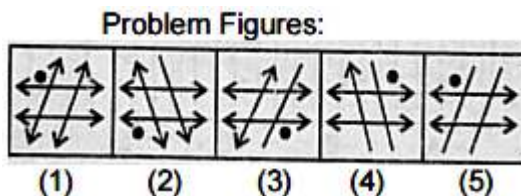
Q84.



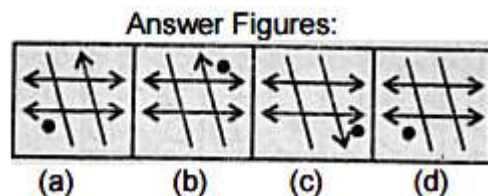
Answer (c)



Q85.



Answer (d)





**Directions:** In each of the following questions, four words have been given out of which three are alike in some manner, while the fourth one is different. Choose the word which is different from the rest.

**Q86.** (a) Othello (b) King Lear (c) Oliver Twist (d) Macbeth  
**Answer (c)**

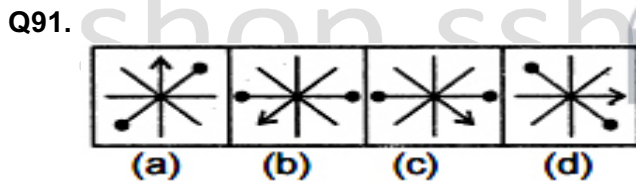
**Q87.** (a) Nimitz (b) Yamamoto (c) Nelson (d) Montgomery  
**Answer (d)**

**Q88.** (a) Blaze (b) Glint (c) Simmer (d) Shimmer  
**Answer (c)**

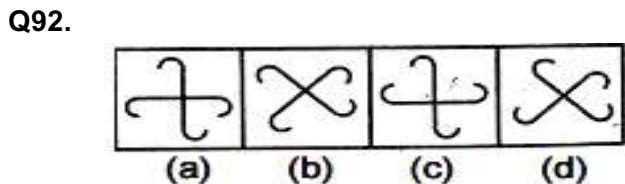
**Q89.** (a) Aravalli hills (b) Shivalik hills (c) Mole hills (d) Satpura hills  
**Answer (c)**

**Q90.** (a) Beaver (b) Alpaca (c) Walrus (d) Koala  
**Answer (c)**

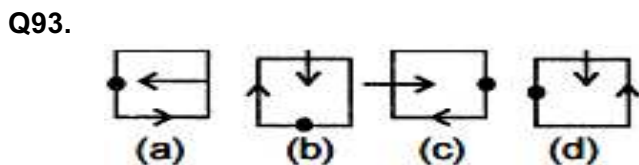
**Directions:** In each problem, out of the four figures marked (a) (b) (c) and (d) three are similar in a certain manner. However, one figure is not like the other three. Choose the figure which is different from the rest.



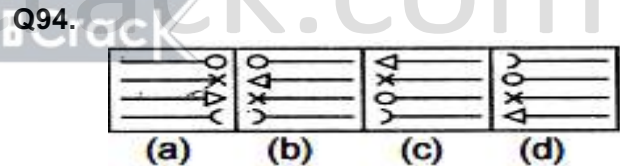
**Answer (c)**



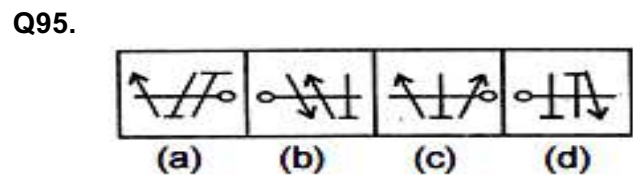
**Answer (d)**



**Answer (a)**



**Answer (b)**



**Answer (c)**

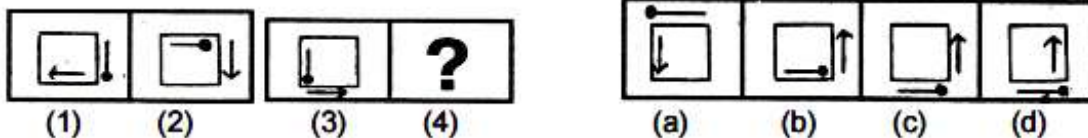
**Directions:** Each of the following questions consists of two sets of figures. Figures (1), (2), (3) and (4) constitute the Problem Set while figures (a), (b), (c) and (d) constitute the Answer Set. There is a definite relationship between figures (1) and (2). Establish a similar relationship between figures (3) and (4) by selecting a suitable figure from the Answer set that would replace the question mark (?) in fig.(4).

Q96.



Answer (a)

Q97.



Answer (d)

Q98.



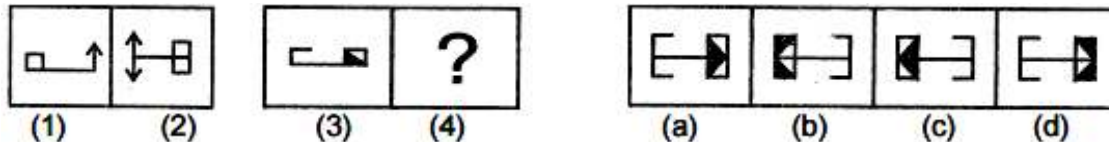
Answer (c)

Q99.



Answer (c)

Q100.



Answer (c)

## Hints and Solutions

### Q. No

1. In a jiffy means 'very soon or suddenly'.
2. Upto the hilt means 'completely, fully or entirely'.
3. Man of letters means 'a literary person'.
4. Sangfroid means 'the ability to remain calm in difficult situations'.
5. Powerful here means 'able to control and influence people and events'. Out of the given alternatives it fits the blank appropriately.
6. In the context of the sentence 'could' fits the blank appropriately.
7. Scene of accident/attack/question/crime etc. is used.
8. Out of the given alternatives 'comfort' is an obvious choice in the context of the sentence.
9. Glimpse means 'a look at something/somebody for a short time' which is appropriate in the context of the sentence.
10. Otherwise is easily the best choice in the context of the sentence.
11. Sporadic means 'happening occasionally or at intervals'.
12. Genesis means 'beginning or origin of something'.
13. Intransigent means 'unwilling to change opinions, stubborn'.
14. Intimidate means 'to frighten or threaten somebody'.
15. Clemency means 'kindness shown when somebody is being punished; mercy'. Corporal means 'physical punishment'.
16. Cajole means 'to make somebody do something by being nice to them'. Bully means 'to use your power or strength to make somebody do something'.
17. Malevolent means 'having or showing a desire to harm someone'.
18. Purgatory means 'of hell'. Celestial means 'of heaven'.
19. Neither I nor II is true.
20. Answer can be inferred from the first sentence of the passage.
21. All other options are clearly inappropriate.
22. A curtain lecture means 'a private scolding of a husband by his wife'.
23. Square pegs in round holes means 'people in the wrong jobs/places'.
24. In weal and woe means 'in both good and bad times'.
25. Globetrotters mean 'travellers around the world'.
26. The correctly spelt word is Connoisseur.
27. The correctly spelt word is Munificent.
28. The correctly spelt word is Equanimity.
29. The correctly spelt word is Veterinary.
30.  $(A+B+C)$ 's 3 days work  $\frac{3}{20} + \frac{1}{30} + \frac{1}{60}$   

$$= \frac{9+2+1}{60} = \frac{12}{60}$$

$$\therefore (A + B + C)\text{'s can do the whole work}$$

$$= 3 \times 5 = 15 \text{ days}$$
**(Note A is assisted by B and C every third day)**
31. Let the speed upstream = x kmph  
 Then speed downstream is = 3x kmph [as per question]  
 speed in still water =  $12(a+b) \Rightarrow 12(3x+x)$   

$$\Rightarrow 2x$$
  
 as per question we know,  

$$2x = 9\frac{1}{3} \Rightarrow 2x = \frac{28}{3} \Rightarrow x = \frac{14}{3}$$
 So,  
 Speed upstream =  $14/3$  km/hr, Speed downstream 14 km/hr.  
 Speed of the current  

$$= \frac{1}{2} [14 - \frac{14}{3}]$$

$$= \frac{14}{3} = 4\frac{2}{3} \text{ kmph}$$
32. Let the speed of the stream be x km / hr. Then,  
 Speed downstream =  $(10 + x)$  km/hr, Speed upstream =  $(10 - x)$  km/hr.  

$$26 / (10 + x) = 14 / (10 - x) \Leftrightarrow 260 - 26x = 14 + 14x \Leftrightarrow 40x = 120 \Leftrightarrow x = 3 \text{ km/hr.}$$
33. Suppose principal amount = ₹ P  
 Then,  $2P - P = \frac{P \times r \times 16}{100} \Rightarrow P = \frac{P \times r \times 16}{100}$   

$$\Rightarrow r = \frac{100}{16} \Rightarrow r = \frac{25}{4} \%$$
 Again,  $SI = \frac{P \times r \times t}{100}$   

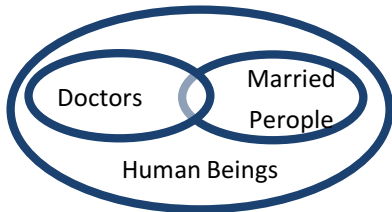
$$\Rightarrow x = \frac{P \times 25 \times 8}{4 \times 100} \text{ (suppose SI = ₹ x)}$$
  

$$\Rightarrow x = \frac{P}{2}$$

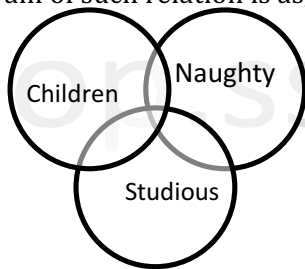
$$\therefore \text{required times} = p + x = P + \frac{P}{2} = \frac{3P}{2} = 1\frac{1}{2} \times P$$

34. Let the time be 'n' years, Then  
 $800 \times (1 + \frac{5}{100})^2 n = 926.10 \Leftrightarrow (1 + \frac{5}{100})^{2n} = \frac{9261}{8000} \Leftrightarrow (\frac{21}{20})^{2n} = (\frac{21}{20})^3$   
 $\therefore n = \frac{3}{2}$  or  $n = 1\frac{1}{2}$  Years
35. When an article is sold at the same per cent of profit and loss then always becomes a loss.  
 $\therefore$  Loss percentage =  $\frac{(15)^2}{100} = \frac{225}{100} = 2.25\%$
36. Average speed =  $2ab/(a+b)$  here  $a=25$   $b=4$   
 $= 2 \times 25 \times 4 / (25+4) = 200/29$  km/hr.  
Distance covered in 5 hours 48 minutes  
= Speed x time =  $(200/29) \times (29/5)$  Distance covered in 5 hours 48 minutes = 40kms  
Distance between A and B is =  $(40/2) = 20$  km.
37. Suppose length of train = xm  
Then,  $\frac{x+200}{10} = \frac{x}{5}$   
 $\Rightarrow 2x = x + 200$   
 $\Rightarrow x = 200$ m  
 $\therefore$  Speed of the train =  $\frac{200}{5}$  m/s  
= 40 m/s =  $40 \times \frac{18}{5}$  km/h = **144 km/h**
38. Reduce consumption percentage  
 $= \frac{20}{(100+20)} \times 100 = \frac{20}{120} \times 100$   
 $= \frac{100}{6} = \frac{50}{3} = 16\frac{2}{3}\%$
39. Suppose C's salary = ₹ 100  
Then, B's salary =  $\frac{100 \times 85}{100} = ₹ 85$   
and A's salary =  $\frac{85 \times 80}{100} = ₹ 68$   
 $\therefore$  Required percentage =  $\frac{100-68}{68} \times 100 = 47.05\%$
40. Total increase weight =  $5 \times 2$  Kg = 10 kg  
 $\therefore$  Weight of the new man =  $(60 + 10) = 70$  kg
41. (A + B)'s 1 day work =  $\frac{1}{18}$   
(B + C)'s 1 day work =  $\frac{1}{24}$   
(C + A)'s 1 day work =  $\frac{1}{36}$   
 $2(A + B + C)$ 's 1 day work =  $\frac{1}{18} + \frac{1}{24} + \frac{1}{36}$   
 $= +\frac{3+2}{72} = \frac{9}{72} = \frac{1}{8}$   
(A + B + C)'s 1 day work =  $\frac{1}{8} \times \frac{1}{2} = \frac{1}{16}$   
 $\therefore$  B's 1 day work =  $\frac{1}{16} - \frac{1}{36} = \frac{9-4}{144} = \frac{5}{144}$   
Hence, B along can finish the work in  $\frac{144}{5}$  days  
or  **$28\frac{4}{5}$**
42. Any political party gets at least 10% seats in Lok Sabha to be a main opposition party.
43. VS Naipaul.
44. Nelson Mandela.
45. Sachin Tendulkar.
46. On 20<sup>th</sup> Oct, 2014 WHO officially declared that Nigeria is now free of Ebola virus.
47. 11 Gold medals
48. Arvind Mayaram
49. Nirbhay, is India's first long-range subsonic cruise missile. It was test fired on 17<sup>th</sup> Oct, 2014 from launching station BALASORE. Range of Nirbhay is 1000-1500 km and length is 6m
50. Cytology
51. Twenty one
52. 1987, Khan Abdul Ghaffar Khan, who is known also as Bhaugru Khan from Pakistan (Peshawar)
53. Sir CV Raman awarded by Nobel Prize in 1930 for his work. Scattering of light, this radiation of phenomenon also known as 'Raman Effect'.
54. Asian Development Bank was established in 1966 in Manila with 67 members.
55. Sub-marine Launched Ballistic Missile (SLBM) K-15 is also known as Sagrika Range 300-700km, length 8.5m.
56. UNCCT-United Nation Center on Counter-Terrorism
57. One - horned Rhinos.
58. In 1952, Helsinki Olympic Games, KD Jadhav won the first individual Olympic (bronze) medal in free style wrestling in Bantam Weight Category.
59. MA Ansari was the president of Congress in 1927.
60. After Kalinga war, Ashoka became a zealous Buddhist.
62. Tomb of Jalaluddin was not built by Alauddin Khilji.
63. The last kind of Nanda dynasties was Dhana Nanda.
64. Agni-VI is also named as Surya. The range of Agni-VI is 6000-10000km.
65. Kosuke Hagino (swimming) of Japan.
66. As, orient is situated in East direction same as polar is situated in North direction.
67. As, Ignominy and disloyalty are the negative qualities of a person same as fame and heroism are the positive qualities of a person.

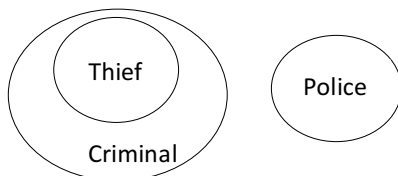
- 68. As, loath and coercion are the negative qualities in nature same as Irate and antagonism are the negative qualities in nature.
- 69. As, novel is the part of trilogy same as episode is the part of serial.
- 70. As a female becomes wife after marriage same as we are eligible for service after qualification with the same.
- 71. All the doctors and married people belong to the group of human beings. \While, some doctors can be married people. Venn diagram of such relation is as,



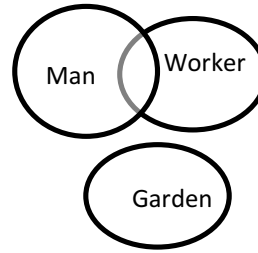
- 72. Some children are naughty and studious same as some naughty are studious and children, while some studious are children as well as naughty. Venn diagram of such relation is as,



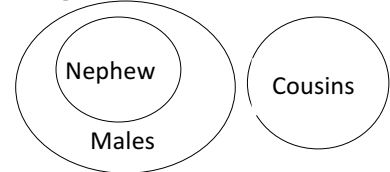
- 73. Thief belong to the category of criminal, while police is a separate entity. Venn diagram of such relation is as,



- 74. Some man can be worker, while garden is a separate entity. Venn diagram of such relation is as,



- 75. All nephews are male, while cousins having male and female both, so cousin is a separate entity. Venn diagram of such relation is as,



- 76. Answer figure (b) will complete the pattern.
- 77. Answer figure (d) will complete the pattern.
- 78. Answer figure (d) will complete the pattern.
- 79. Answer figure (c) will complete the pattern.
- 80. Answer figure (a) will complete the pattern.
- 81. From figure first to second figure (II -X) is rotating 135° anti-clockwise and figure Y is rotating itself by 45° clockwise and (U) is rotating itself as (N) and figure (0) is replaced by the new figure by (□), so an using pattern 0 answer figure (d) is the next figure.
- 82. A new line segment is increasing anti-clockwise of the previous line heading with different element. The first line is rotating itself by 45° anti-clockwise in every next step, hence answer figure (c) is the next figure.
- 83. Elements of the figures are rotating 90° and 135° anti-clockwise alternatively. Hence, answer figure (c) is the next figure.
- 84. From figure first to figure second, middle element of the figure is the exact water image and the left most elements are placed at the right most place as its water image while right most elements are placed at the left most place as its water image. Hence, answer figure (c) is the next figure.

85. Dot (•) in the figure is rotating one side anti-clockwise and one sign ( $\rightarrow$ ) is missing by every figure respectively.
86. Othello, King Lear and Macbeth are the leading characters of story of William Shakespear. While, Oliver Twist was not the leading character of the story. 88.
88. All except simmer are related to the flame of fire while simmer is to cook something by keeping it almost boiling point.
89. Except mole hills all others are mountains, while mole hills are small pill of Earth.
90. Except walrus, all others are land animal, while walrus is a sea animal.
91. Except figure (c), all the figures can be formed by rotating first figure.
92. Except figure (d), all the figures can be formed by rotating the first figure.
93. Except figure (d) in all the figures element '•' and ' $\leftarrow$ ' and are opposite to each other while in figure (d) it is not so.
94. In figure (a) all the line segments are facing towards East direction while in all other figures line segments are facing towards West direction. Hence, figure (a) is different from the rest.
95. In all other figures except figure (c) line segments are used at once while in figure (c) arrow is used twice. Hence, figure (c) is different from the rest.
96. Left elements of the figure moves to the rightwards topmost element goes to the lowermost and lower most element goes to the lopmost although the left elements are replaced by the new elements. Hence, figure (a) fulfills the condition.
97. Elements of the figure (1) are rotating anti-clockwise and insider element comes outside while outsider element goes inside one out of two elements is replaced by the new element. Hence, answer figure (d) fulfills the condition.
98. Elements of the figure are rotating itself by  $180^\circ$  and a line segment and a '0' are increasing with respected to the same. Hence, answer figure (c) fulfills the condition.
99. Topmost half part of the figure is placed at the lowermost half part of the figure in reverse order. Hence, figure (c) fulfills the condition.
100. First the figure gets change in mirror image and the changed figure gets changed in water image again. Hence, figure (c) fulfills the condition.

# Air Force Common Admission Test

## Solved Paper AFCAT – 2/2014

**Directions:** Select the most appropriate word from the options against each number

Science has made an (1) contribution to the relief of human suffering and humanity (2) a deep (3) of gratitude to scientists whose (4) and sacrifices have led to many (5) discoveries and inventions which have done so much to (6) human pain and misery.

- Q1.** (a) excessive (b) enormous (c) intensive (d) active  
**Answer (b)**
- Q2.** (a) feels (b) offers (c) owes (d) acknowledges  
**Answer (c)**
- Q3.** (a) amount (b) fund (c) loan (d) debt  
**Answer (a)**
- Q4.** (a) labours (b) discoveries (c) achievements (d) successes  
**Answer (a)**
- Q5.** (a) strange (b) useful (c) advantageous (d) profitable  
**Answer (b)**
- Q6.** (a) decrease (b) disappears (c) alleviate (d) belittle  
**Answer (c)**

**Directions:** Read the following passage carefully and answer the questions given below it:

### Passage

Language is often used for one of the following three purposes, namely, to inform, to convince and to persuade. The first, requiring talent of telling what we know, is a matter of little difficulty. The second demands reasoning. The third, besides reasoning, demands all the aid that we can obtain from the use of figures of speech or figures of rhetoric, which means the power of persuasion.

- Q7.** Rhetoric is the  
(a) art of reasoning (b) use of figure of speech (c) power of persuasion (d) means of communicating information  
**Answer (c)**
- Q8.** The art of Persuasion requires the use of  
(a) information and talent feels (b) reasoning and information (c) figure of speech (d) reasoning and figure of speech  
**Answer (d)**

- Q9.** The above passage is  
(a) informative (b) persuasive (c) convincing (d) rhetorical  
**Answer (a)**

**Directions:** Choose the word which is nearest in meaning to the given word.

- Q10.** Liberalise  
(a) Resist (b) Change (c) Function (d) Malfunction  
**Answer (b)**

- Q11.** Pragmatic  
(a) Theoretical (b) Suitable (c) Realistic (d) Productive  
**Answer (c)**

- Q12.** Pristine  
(a) Fresh (b) Old (c) Preserve (d) Dirty  
**Answer (a)**

- Q13.** Intrepid  
(a) Middle (b) Tolerant (c) Rude (d) Fearless  
**Answer (d)**

**Directions:** Choose the word which is nearly opposite in meaning to the given word:-

- Q14.** Angelical  
(a) Magnanimous (b) Benevolent (c) Diabolical (d) Critical  
**Answer (c)**

- Q15.** Haughtiness  
(a) Affability (b) Unskilled (c) Adduce (d) Abject  
**Answer (a)**

- Q16.** Bellow  
(a) Tout (b) Whisper (c) Stupour (d) Down  
**Answer (b)**

- Q17.** Inequity  
(a) Law (b) Illegal (c) Slander (d) Libel  
**Answer (a)**

**Directions:** Choose the word that best defines the given phrase :-

- Q18.** Tickled pink  
(a) Greatly pleased (b) Coloured (c) Deeply upset (d) Embarrassed  
**Answer (a)**

- Q19.** Split one's side  
(a) Intense pain (b) To laugh a lot (c) to be hurt (d) None of the above  
**Answer (b)**



**Q20.** Building castles in the air  
(a) Making impossible plans (b) Making tall promises (c) building skys (d) structures without strong foundation  
**Answer (a)**

**Q21.** At the drop of a hat  
(a) Willingly and softly (b) Willingly and immediately (c) Willingly and silently (d) slowly and silently  
**Answer (b)**

**Directions:** Choose the correctly spelt word:-

**Q22.** (a) Parentheses (b) Parenthesis (c) Parentesis (d) arentheses  
**Answer (a)**

**Q23.** (a) Verstile (b) Versatile (c) Versetile (d) Versatele  
**Answer (b)**

**Q24.** (a) Hemorrhage (b) Hemorrhage (c) Haemorrhage (d) Hemorrhage  
**Answer (c)**

**Q25.** (a) Vetnerinarian (b) Veternarian (c) Vetrinarian (d) Veterinarian  
**Answer (d)**

**Directions :** Which word or words explains the meaning of the following idioms:-

**Q26.** Airy-Fairy  
(a) Most important (b) Nervous (c) Not practical (d) Confident  
**Answer (c)**

**Q27.** Be given the axe  
(a) To move fast (b) Carpenter (c) Woodcutter (d) To lose job  
**Answer (d)**

**Q28.** To go like a bomb  
(a) Loud explosion (b) To move fast (c) Terrorism (d) Not practical  
**Answer (b)**

**Q29.** Bolt from the blue  
(a) Unexpected (b) Lighting (c) T Nervous (d) Sudden  
**Answer (a)**

**Directions:** Choose the most appropriate answer:-

**Q30.** Which of the following rulers had the title 'Kaviraja ?'  
(a) Kumaragupta (b) Chandragupta (c) Skandagupta (d) Samudragupta  
**Answer (d)**

- Q31.** The Viceroy who divided Bengal by following the divide and rule policy was.  
(a) Lord Curzon (b) Lord Ripon (c) Lord Lytton (d) Lord Mayo  
**Answer (a)**
- Q32.** The right to vote in the national elections in India is based on the principle of  
(a) Restricted franchise (b) Hereditary privileges (c) Property qualifications (d) Universal adult suffrage  
**Answer (d)**
- Q33.** Algae often float on surface of water during day but sink during night due to  
(a) evolution and trapping of oxygen bubbles during the day in their photosynthesis process  
(b) becoming light as they consume most of their food in the night  
(c) warming action of sun during the day  
(d) release of absorbed air by warming of water  
**Answer (a)**
- Q34.** Who is the author of 'Train to Pakistan' ?  
(a) Arun Shourie (b) J.N. Dixit (c) Khushwant Singh (d) Ismat Chughtai  
**Answer (c)**
- Q35.** On which river is Berlin city situated?  
(a) Potomac (b) Irrawaddy (c) Rhine (d) Spree  
**Answer (d)**
- Q36.** The Commonwealth Games Relay Baton has traditionally contained?  
(a) sand from the last host city (b) a message from the Head of the Commonwealth  
(c) The Commonwealth Games Motto (d) sand from each competing Nation  
**Answer (b)**
- Q37.** Who was the first woman to climb Mount Everest?  
(a) Junko Tabei (b) Tenzing Norgay (c) Aarti Pradhan (d) Bachendri Pal  
**Answer (a)**
- Q38.** Who founded the Asiatic Society of Bengal in Kolkata?  
(a) Warren Hastings (b) John Shore (c) Sir William Jones (d) Lord Cornwallis  
**Answer (c)**
- Q39.** When is the World Poetry Day recognized by the UNESCO observed?  
(a) 02 February (b) 30 December (c) 21 March (d) 14 February  
**Answer (c)**
- Q40.** In which respect have the Centre-State relations been specifically termed as municipal relations?  
(a) Centre's control of the State in the legislative sphere  
(b) Centre's control of the State in financial matter  
(c) Centre's control of the state in the administrative sector  
(d) Centre's control of the state in the planning process  
**Answer (d)**

- Q41.** The youngest mountain range in the world is –  
(a) Himalayas (b) Alps (c) Andes (d) Rockies  
**Answer (a)**
- Q42.** Who was the first Commander in Chief of Indian Air Force in Independent India?  
(a) Gen KM Kariyappa (b) Field Marshal Sam Manekshaw  
(c) Major Stringer Lawrence (d) Thomas Walker Elmhirst  
**Answer (d)**
- Q43.** What is the 'splash and burn agriculture' in Indonesia called as?  
(a) Jhoom cultivation (b) Roke cultivation (c) Milpa cultivation (d) Ladang cultivation  
**Answer (c)**
- Q44.** Which theory gave birth to the French Revolution and the Revolution in America?  
(a) Legal theory of rights (b) Theory of natural rights  
(c) Social welfare theory (d) Historical theory of rights  
**Answer (b)**
- Q45.** 38th parallel is a boundary line between ---  
(a) United States and Canada (b) Pakistan and India  
(c) Turkey and Cyprus (d) South and North Korea  
**Answer (d)**
- Q46.** 'Satyameva Jayate' is borrowed from which of the following?  
(a) Mundaka Upanishad (b) Mahabharat (c) Ramayana (d) Arthshashtra  
**Answer (a)**
- Q47.** Two-third of a consignment was sold at a profit of 5% and the remainder at a loss of 2%. If the total profit was 2400, what was the value of the consignment?  
(a) ₹13,000/- (b) ₹17,000/- (c) ₹ 15000 (d) ₹ 40000  
**Answer (c)**
- Q48.** 7 is added to a certain number, the sum is multiplied by 5; the product is divided by 9 and 3 is subtracted from the quotient. The remainder left is 12. What is the number?  
(a) 20 (b) 30 (c) 40 (d) 5  
**Answer (a)**
- Q49.** A train covers a distance of 10 km in 12 minutes. If its speed is decreased by 5 kmph, what is the time taken by the train to cover the same distance?  
(a) 14 min. 33 sec (b) 13 min.33 sec (c) 13 min. 20 sec (d) 15 min. 20 sec  
**Answer (c)**
- Q50.** 'A' is thrice as good a workman as 'B', and takes 10 days less to do a piece of work than 'B' takes. How many days will 'B' take to complete if he works alone?  
(a) 21 days (b) 15 days (c) 18 days (d) 24 days  
**Answer (b)**

- Q51.** In Arun's opinion his weight is greater than 65 kg but less than 72 kg. His brother does not agree with Arun and he thinks that Arun's weight is greater than 60 kg but less than 70 kg. His mother's view is that his weight cannot be greater than 68 kg. If all of them are correct in their estimation, what is the average of different probable weights of Arun?  
 (a) 71 kg (b) 67 kg (c) 67.5 kg (d) 68 kg  
**Answer (b)**
- Q52.** In three annual examinations, of which the aggregate marks of each was 500, a student secured average marks 45% and 55% in the first and the second yearly examinations respectively. To secure 60% average total marks, it is necessary for him in third yearly examination to secure.... marks.  
 (a) 300 (b) 350 (c) 355 (d) 400  
**Answer (d)**
- Q53.** A towel was 50 cm broad and 100 cm long. When bleached, it was found to have lost 20% of its length and 10% of its breadth. Find the percentage of decrease in area?  
 (a) 32% (b) 28% (c) 33% (d) 24%  
**Answer (b)**
- Q54.** How many digits will be there to the right of the decimal point in the product of 95.75 and 0.02554?  
 (a) 5 (b) 6 (c) 7 (d) insufficient data  
**Answer (b)**
- Q55.** 'A' and 'B' can do a piece of work in 30 days while 'B' and 'C' can do the same work in 24 days and 'C' and 'A' in 20 days. They all work for 10 days and 'B' and 'C' leave. How many days more will 'A' take to finish the work?  
 (a) 12 days (b) 18 days (c) 20 days (d) 22 days  
**Answer (b)**
- Q56.** A factory employs skilled workers, unskilled workers and clerks in the proportion 8: 5 : 1 and the wages of a skilled worker as unskilled worker and a clerk are in the ratio 5 : 2 : 3. When 20 unskilled workers are employed, the total daily wages of all, amount to 318. What the daily wages is in paid to each category of employees?  
 (a) 240, 57, 19 (b) 210, 70, 13 (c) 230, 65, 12 (d) 240, 60, 18  
**Answer (d)**
- Q57.** A cat takes 5 leaps for every 4 leaps of a dog, but 3 leaps of the dog are equal to 4 leaps of the cat. What is the ratio of the speed of the cat to that of the dog?  
 (a) 13 : 14 (b) 15 : 11 (c) 17 : 15 (d) 15 : 16  
**Answer (d)**
- Q58.** Ram, Shiv and Ganesh assemble for a contributory party. Ram brings 3 apples while Shiv brings 5. Since Ganesh did not bring any, he contributed P8/-. How many rupees should Ram and Shiv respectively get, assuming each of the three consumes an equal portion of the apples?  
 (a) 1, 7 (b) 2, 5 (c) 5, 3 (d) 2, 6  
**Answer (a)**

**Q59.** A man deposited a total sum of ₹ 88400/- in the name of his two sons aged 19 and 17 years so that at the age of 21, both will get equal amounts. If the money is invested at the rate of 10% compound interest per annum what are the shares of his two sons?

- (a) ₹ 48200                      (b) 48400                      (c) 42600                      (d) 44200

**Answer (b)**

**Q60.** A train is moving at a speed of 132 kmph. If the length of the train is 110 meters, how long will it take to cross a railway platform 165 m long?

- (a) 6.0 secs                      (b) 7.5 secs                      (c) 7.0 secs                      (d) 8.5 secs

**Answer (b)**

**Q61.** The sum of the number of boys and girls in a school is 150. If the number of boys is  $x$ , then the number of girls becomes  $x\%$  of the total number of students. How many boys are there in the school?

- (a) 51                              (b) 65                              (c) 60                              (d) 95

**Answer (c)**

**Q62.** 'A' scored 30% marks and failed by 15 marks. 'B' scored 40% marks and obtained 35 marks more than those required to pass. What is the pass percentage?

- (a) 33%                              (b) 40%                              (c) 34%                              (d) 48%

**Answer (a)**

**Q63.** A banker lent ₹ 6000/- at 10% and ₹ 5000/- at 12% at the same time and for same period of time. The banker received ₹ 2400 as total interest on both loans. Find the period for which the banker had lent the amount.

- (a) 3 years 6 months              (b) 3 years                      (c) 2 years 6 months              (d) 2 years

**Answer (d)**

**Q64.** Two pipes 'A' and 'B' can fill a tank in 20 and 30 minutes respectively. If both the pipes are used together, then how long will it take to fill the tank?

- (a) 12 Min                              (b) 15 Min                              (c) 25 Min                              (d) 50 Min

**Answer (a)**

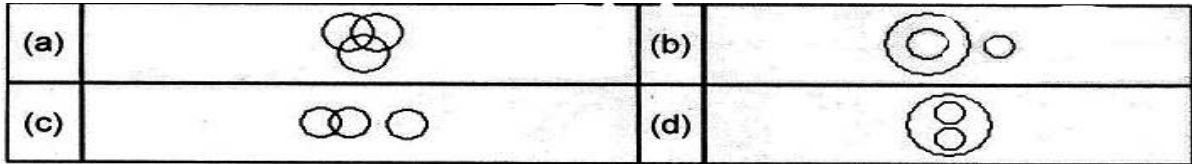
**Q65.** Speed of a boat in still water is 9 Kmph and the speed of the stream is 1.5 Kmph. A man rows to a place at a distance of 105 Kms and comes back to the starting point. What will be the total time taken by him?

- (a) 16 Hrs                              (b) 18 Hrs                              (c) 24 Hrs                              (d) 28 Hrs

**Answer (c)**

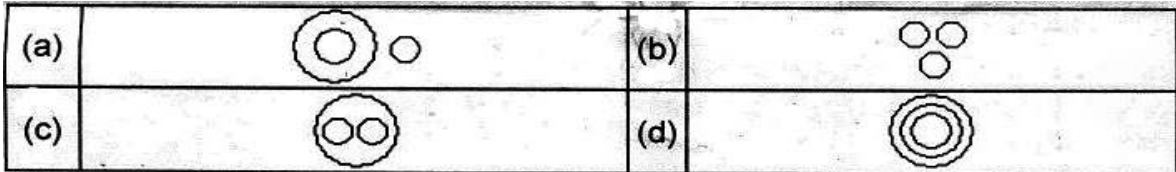
**Directions:** Each of these questions given below contains three elements. These elements may or may not have some inter-linkage. Each group of elements may fit into one of these diagrams at (a), (b), (c) or (d). You have to indicate the group of elements which correctly fits into the diagrams.

**Q66.** Which of the following diagrams indicates the best relation between Judge, Thieves and Criminals?



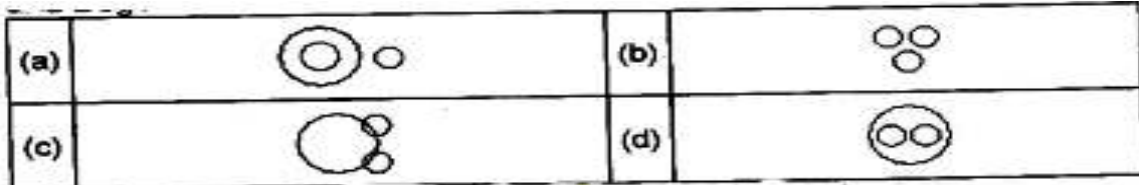
**Answer (b)**

**Q67.** Which of the following diagrams indicates the best relation between India, Haryana and World?



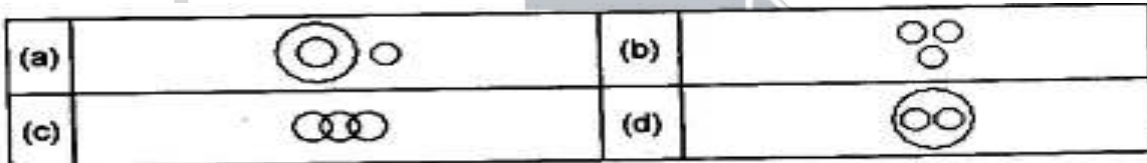
**Answer (d)**

**Q68.** Which of the following diagrams indicates best relation between Pigeon, Bird and Dog?



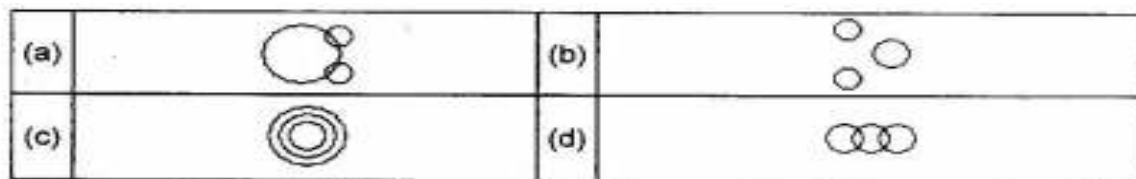
**Answer (a)**

**Q69.** Which of the following diagrams indicates the best relation between Earth, Sea and Sun?



**Answer (a)**

**Q70.** Which of the following diagrams indicates the best relation between Hockey, Football and Cricket?



**Answer (b)**

**Directions:** *In each of the following questions find out the alternative which will replace the question mark.*

**Q71.** Carbon : Diamond                      Corundum.....?.....  
 (a) Garnet                                      (b) Ruby                                      (c) Pukhraj                                      (d) Pearl  
**Answer (b)**

- Q72.** Architect: Building                      Sculptor: .....?.....  
 (a) Museum                      (b) Stone                      (c) Chisel                      (d) Statue  
**Answer (d)**
- Q73.** Eye : Myopia                      Teeth : .....?.....  
 (a) Museum                      (b) Stone                      (c) Chisel                      (d) Statue  
**Answer (a)**
- Q74.** Conference : Chairman                      Newspaper : .....?.....  
 (a) Reporter                      (b) Distributor                      (c) Printer                      (d) Editor  
**Answer (d)**
- Q75.** Safe : Secure                      Protect.....?.....  
 (a) Lock                      (b) Sure                      (c) Guard                      (d) Conserve  
**Answer (c)**

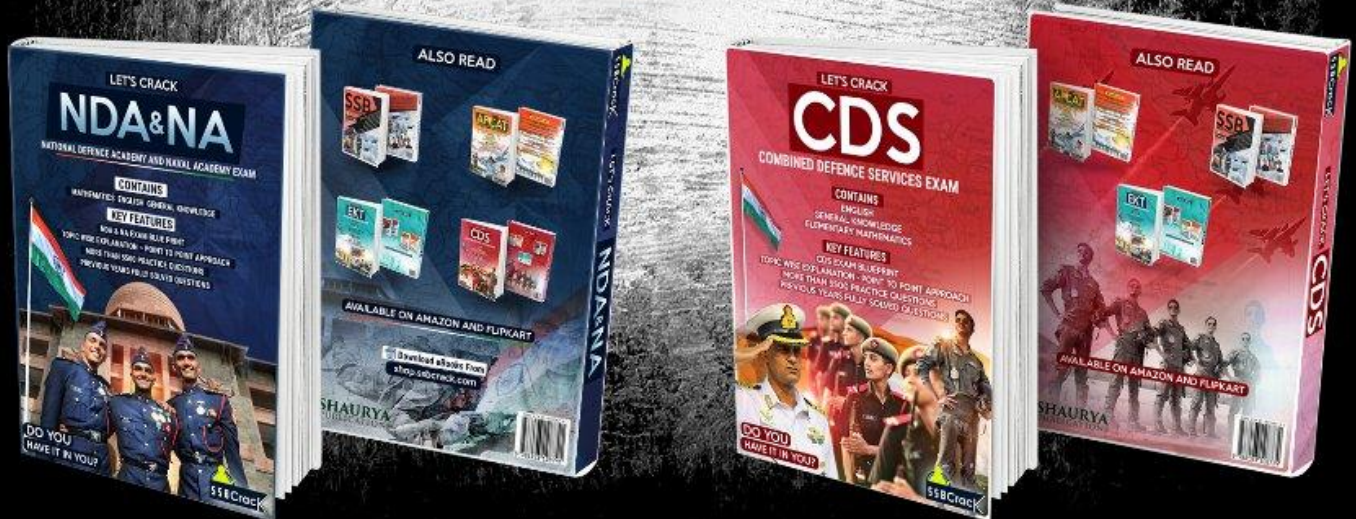
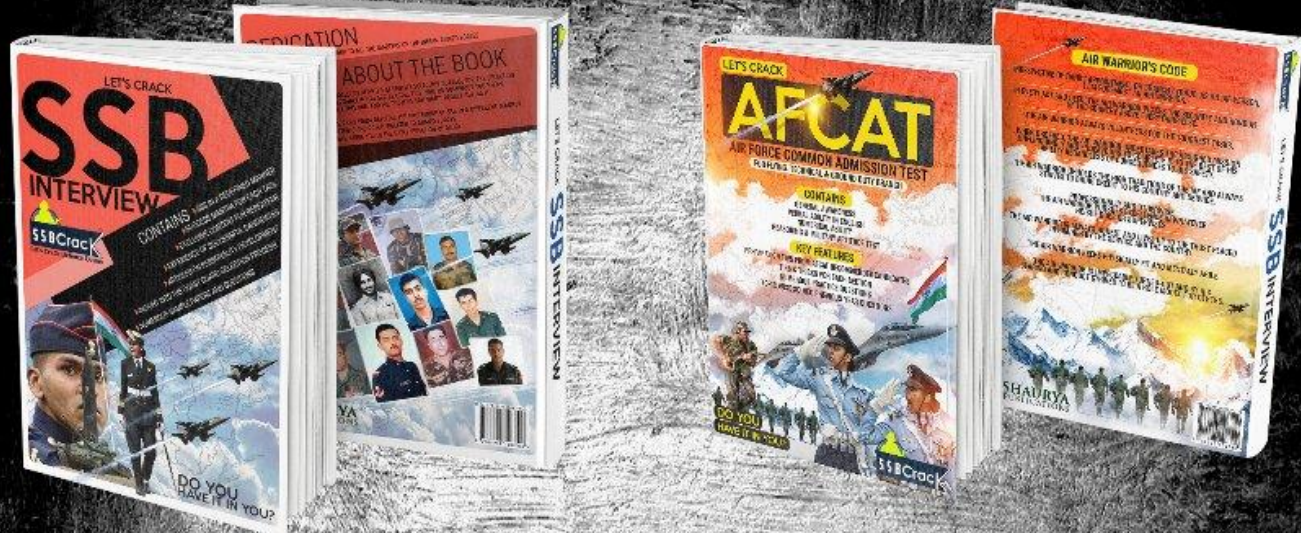
**Directions:** In each of the following questions, five words have been given out of which four are alike in some manner, while the fifth one is different. Choose the word which is different from the rest.

- Q76.** (a) Potassium                      (b) Silicon                      (c) Zirconium                      (d) Gallium  
**Answer (a)**
- Q77.** (a) Tea                      (b) Cinchona                      (c) Rubber                      (d) Chalk  
**Answer (d)**
- Q78.** (a) Hangar                      (b) Platform                      (c) Dock                      (d) Park  
**Answer (d)**
- Q79.** (a) Deck                      (b) Quay                      (c) Stern                      (d) Bow  
**Answer (d)**
- Q80.** (a) Tall                      (b) Huge                      (c) Thin                      (d) Sharp  
**Answer (d)**

**Directions:** Choose the most appropriate answer.

- Q81.** Which one of the following is always with 'Bargain'?  
 (a) Exchange                      (b) Sumptuousness                      (c) Triviality                      (d) Eloquence  
**Answer (d)**
- Q82.** Which one of the following a 'Drama' must have?  
 (a) Actors                      (b) Story                      (c) Sets                      (d) Director  
**Answer (b)**
- Q83.** A boy is sitting at the back seat of a car. When the driver suddenly starts moving the car (in forward direction), the boy experiences a backward force?  
 (a) Always                      (b) Never                      (c) Often                      (d) Sometimes  
**Answer (a)**

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**Q84.** Which one of the following is always found in 'Wonder'?

- (a) Crowd                      (b) Lumber                      (c) Astonishment                      (d) Rustic

**Answer (c)**

**Q85.** 'Disclosure' always involves

- (a) Agents                      (b) Display                      (c) Exposition                      (d) Secrets

**Answer (d)**

**Directions:** Each of the following questions consists of five figures marked 1, 2, 3, 4 and 5 called the Problem Figures followed by four other figures marked a, b, c and d called the Answer Figures. Select a figure from amongst the Answer Figures which will continue the same series as established by the five Problem Figures.

**Q86.** Problem Figures                      Answer Figures

**Answer (a)**

**Q87.** Problem Figures:                      Answer Figures:

**Answer (b)**

**Q88.** Problem Figures:                      Answer Figures:

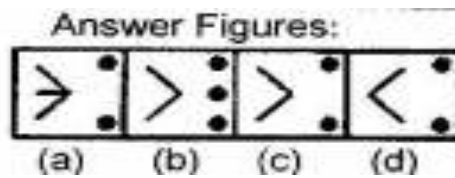
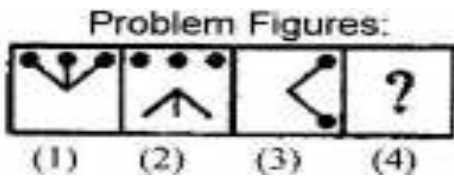
**Answer (a)**

**Q89.** Problem Figures:                      Answer Figures:

**Answer (a)**

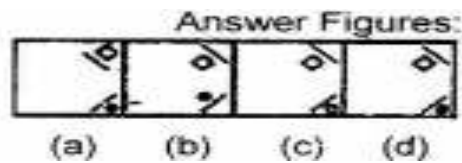
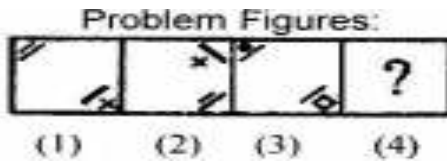
**Directions:** Each of the following questions consists of two sets of figures. Figures 1, 2, 3 and 4 constitute the Problem Set while figures (a) (b) (c) and (d) constitute the Answer Set. There is a definite relationship between figures (1) and (2). Establish a similar relationship between figures (3) and (4) by selecting a suitable figure from the Answer set that would replace the question mark (?) in fig. (4).

Q90.



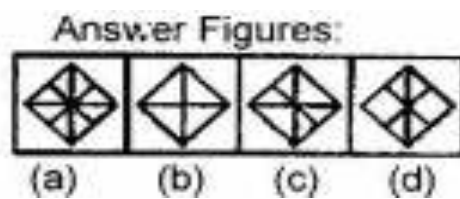
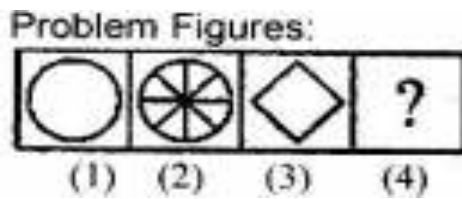
Answer (c)

Q91.



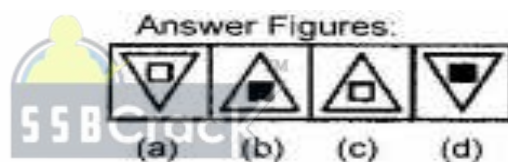
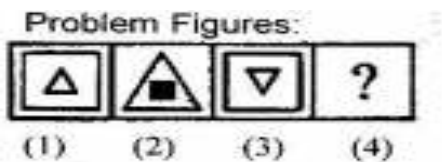
Answer (b)

Q92.



Answer (a)

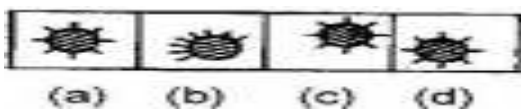
Q93.



Answer (d)

**Directions:** *In each problem, out of the four figures marked (a) (b) (c) (d) three are similar in a certain manner. However, one figure is not like the other three. Choose the figure which is different from the rest.*

Q94.



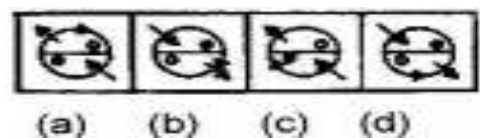
Answer (b)

Q95.



Answer (d)

Q96.



Answer (d)

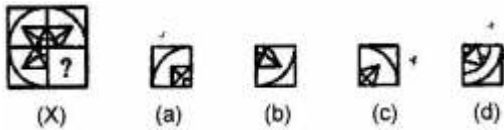
Q97.



Answer (a)

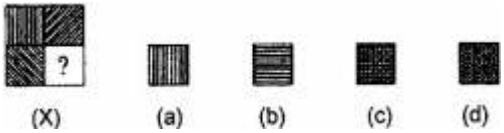
**Directions:** *In each of the following questions, select a figure from amongst the four alternatives which when placed in the blank space of figure (X) would complete the pattern.*

Q98.



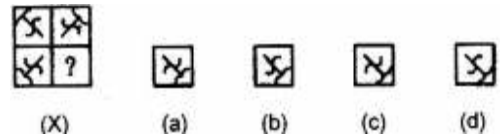
Answer (b)

Q99.



Answer (b)

Q100.



Answer (d)

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## Hints and Solutions

### Q. No

1. Enormous means 'extremely large'.
2. Owe something to somebody is used.
3. Out of the given alternatives 'amount' fits the blank appropriately
4. 'Labours and sacrifices' is the appropriate Phrase.
5. Out of the given alternative 'useful' fits the blank appropriately.
6. Alleviate means 'to make something less severe'.
7. Clearly stated in the last sentence of the Passage.
8. The answer can be inferred from the last sentence of the passage.
9. The answer is clear after reading the passage.
10. Liberalise means 'to make something such as law or political or religious system less strict'.
11. Pragmatic means 'realistic'.
12. Pristine means 'fresh and clean'.
13. Intrepid means 'fearless'.
14. Angelical means 'related to angels'.  
Diabolical means 'morally bad and evil'.
15. Haughtiness means 'unfriendliness because you feel you are better than others'. Affability means 'friendliness and pleasantness'.
16. Bellow means 'to shout in a loud deep voice'.
17. Inequity means 'something that is unfair, injustice'.
18. Tickled pink means 'greatly pleased'.
19. Split one's side means 'to laugh a lot'.
20. Building castles in the air means 'making impossible plans'.
21. At the drop of a hat means 'willingly and immediately'.
22. The correctly spelt words 'Parentheses'.
23. The correctly spelt word is 'Versatile'.
24. The correctly spelt word is 'Haemorrhage'.
25. The correctly spelt word is 'Veterianrian'.
26. Airy-Fairy means 'not practical'.
27. Be given the axe means 'to lose job'.
28. To go like a bomb means 'to move fast'.
29. Bolt from the blue means 'unexpected'.
30. Gupta ruler Samudragupta is mentioned as great musician and issued coins of Veena type. He is mentioned as Kaviraja in Prayag Prasasti, by Harisena.
31. Loard Cuizon divided Bengal in 1905, by following the divide and rule policy.
32. The Article 326 of the India Constitution grants universal adult suffrage, according to which, even adult citizen is entitled to cast his/her vote in all state elections unless that citizen is 'convicted of certain criminal offences' or 'deemed unsound of mind'. As per this concept, the right to vote is not restricted by caste, race sex, religion or financial status.
33. In day time, the algae is producing oxygen through photosynthesis, when enough oxygen is produced during the day, It gets trapped in bubbles and it can lift the clumps upto the surface. In night, this oxygen is consumed and CO<sub>2</sub> is produce, so algae sinks
46. The words 'Satyameva Jayate' are taken from the Mundaka Upanished, meaning 'Truth Alone Triumphs'.
47. let the total value be Rs x  
value of 2/3=2x/3, value of 1/3=x/3  
total S.P value be Rs x  
total S.P=[(105% of 2x/3)+(98% of x/3)]  
=(105\*2x)/(100\*3)+(98/100)+x/3  
=308x/300  
(308x/300)-x=400  
8x/300=400  
x=(300\*400)/8=Rs **15000**
48. Suppose number = then  $\frac{(x \div 7) \times 5}{9} - 3 = 12$   
 $\Rightarrow 5x + 35 - 27 = 108 \Rightarrow 5x + 8 = 108$

$$\Rightarrow 5x = 100 \Rightarrow x = \frac{100}{5} = 20$$

49. Speed of the train =  $\frac{10}{12} \times 60 \text{ km/h} = 50 \text{ km/h}$

New speed of the train =  $(50-5) \text{ km/h} = 45 \text{ km/h}$

$\therefore$  Distance = 10 km

$\therefore$  Required time =  $\frac{10}{45} \times 60 \text{ min} = \frac{40}{3} \text{ min}$

=  $13\frac{1}{3} \text{ min} = 13 \text{ min. } 20 \text{ sec}$

50. Suppose, A can do a piece of work in x days then B can do a piece of work in 3x days

So,  $3x - x = 10$

$\Rightarrow 2x = 10 \Rightarrow x = 5 \text{ days}$

Hence, B can do a piece of work in **15 days**

51. Let Arun's weight by X kg.

According to Arun,

$$65 < X < 72$$

According to Arun's brother,

$$60 < X < 70.$$

According to Arun's mother,

$$X \leq 68$$

The values satisfying all the above conditions are 66, 67 and 68.

Required average,

$$= \frac{(66+67+68=201)}{3} = 67 \text{ kg.}$$

52. Marks in the first yearly examination =

$$500 \times \frac{45}{100} = 225$$

Marks in the second yearly examination =

$$500 \times \frac{55}{100} = 275$$

$$\therefore 60\% \text{ marks of total marks} = \frac{(500+500+500) \times 60}{100} = 900$$

$$\therefore \text{Required marks} = 900 - (225+275) = 900-500 = 400$$

53. Original area =  $100 \times 50$

reduced length = 80% of 100 = 80

reduced breadth = 90% of 50 = 45

reduced area =  $80 \times 45$

reduction in area =  $500 - 3600 = 1400$

$\therefore$  % reduction =  $[\frac{400}{5000}] 100 = 28 \%$

54. Required product =  $95.75 \times 0.02554 = 2.445455$

So, 6 digits will be there to the right of the decimal Point

55.

$$2(A + B + C)'s \text{ 1 day's work} = \left( \frac{1}{30} + \frac{1}{24} + \frac{1}{20} \right) = \frac{15}{120} = \frac{1}{8}$$

Therefore, (A + B + C)'s 1 day's work =  $\frac{1}{2 \times 8} = \frac{1}{16}$ .

Work done by A, B, C in 10 days =  $\frac{10}{16} = \frac{5}{8}$ .

Remaining work =  $\left( 1 - \frac{5}{8} \right) = \frac{3}{8}$ .

A's 1 day's work =  $\left( \frac{1}{16} - \frac{1}{24} \right) = \frac{1}{48}$ .

Now,  $\frac{1}{48}$  work is done by A in 1 day.

So,  $\frac{3}{8}$  work will be done by A in  $\left( 48 \times \frac{3}{8} \right) = 18 \text{ days}$ .

56. Ration of workers = 8 : 5 : 1

i.e. 8K : 5K : 1K, Ratio of wages = 5 : 2 : 3

Then,  $8K \times 5 + 5K \times 2 + K \times 3 = 318$

$$\Rightarrow 40K + 10K + 3K = 318 \Rightarrow K = \frac{318}{53} = 6$$

$\therefore$  Daily wages of each employ

$$= 40K, 10K, 3K = 40 \times 6, 10 \times 6, 3 \times 6 = 240, 60, 18$$

57. Cat : Dog

$$5 : 4$$

$$5 \times 3 : 4 \times 4 \Rightarrow 15 : 16$$

58. Suppose cost of 1 apple = ₹ x

Ration of amount contribute among Ram, Shiv and Ganesh = Ram : Shiv : Ganesh = ₹ 3x : ₹ 5x : 8

Suppose Ram and Shiv respectively get ₹ m

and ₹ n from Ganesh. Then actual ratio amount

contribute in party = Ram : Shiv : Ganesh =

$$= ₹ 3x - m : ₹ 5x - n : ₹ 8$$

Now,  $3x - m = 5x - n$

$$\Rightarrow n - m = ₹ 2x \quad \dots(i)$$

and  $m + n = ₹ \frac{8x}{3} \quad \dots(ii)$

On adding Eqs, (i) and (ii),  $2n = 2x + \frac{8x}{3} \Rightarrow 2n = \frac{14x}{3}$

$$\Rightarrow n = \frac{7x}{3} \quad \dots(iii)$$

On subtracting Eqs. (ii) from (i),  $2m = \frac{8x}{3} - 2x$

$$\Rightarrow 2m = \frac{2x}{3}$$

$$\Rightarrow m = \frac{x}{3} \quad \dots(iv)$$

$$\therefore m + n = \frac{8x}{3} \Rightarrow 8 = \frac{8x}{3} \quad (\because m + n = ₹ 8)$$

$$\Rightarrow x = ₹3$$

$$\therefore \text{Amt given to Ram by Ganesh (m)} = \frac{x}{3} = \frac{₹3}{3} = ₹1$$

$$\text{and amt given to Shiv by Ganesh (n)} = \frac{7x}{3} = \frac{7 \times 3}{3} = ₹7$$

Hence answer is ₹ 1, 7

59. Let x and y be the shares of elder and younger sons respectively. The amount invested in their names fetch interest for 21 - 19 = 2 years and 21 - 17 = 4 years respectively. Since the two sons are to receive equal amount when they attain 21 years. We have -

$$x\left(1 + \frac{10}{100}\right)^2 = y\left(1 + \frac{10}{100}\right)^4$$

$$\text{giving } \frac{x}{y} = \left(1 + \frac{10}{100}\right)^2 = \frac{121}{100}$$

$$\therefore x : y = 121 : 100$$

$$x = 88400 \times \frac{121}{221} = \text{Rs } 48400$$

60. Speed of the train = 132 km/h =  $132 \times \frac{5}{18}$  m/s

$$= \frac{110}{3} \text{ m/s}$$

$$\therefore \text{Required time} = \frac{110 + 165}{110/3} = \frac{275}{110/3} = \frac{275 \times 3}{110} = 7.5 \text{ s}$$

61. We have:  $x + x\%$  of 150 = 150  
 $\Rightarrow x + \frac{x}{100} \times 150 = 150$   
 $\Rightarrow \frac{5}{2}x = 150$   
 $\Rightarrow x = \frac{(150 \times 2)}{5} = 60$

62. Let's, Total marks = a

Acc. to Q.

$$(a \times 30)/100 + 15 = (a \times 40)/100 - 35$$

After solving we get a = 500

$$\text{Pass marks} = (30 \times 500 / 100) + 15 = 165$$

$$\text{Pass \%} = 165 \times 100 / 500 = 33\%$$

63. Suppose period of time = t yr

Then,

$$\Rightarrow \frac{6000 \times 10 \times t}{100} + \frac{5000 \times 12 \times t}{100} = 2400$$

$$\Rightarrow 600t + 600t = 2400$$

$$\Rightarrow 1200t = 2400$$

$$\Rightarrow t = \frac{2400}{1200} = 2 \text{ yr}$$

64. A's pipe 1 min work =  $\frac{1}{20}$

$$\text{B's pipe 1 min work } k = \frac{1}{20}$$

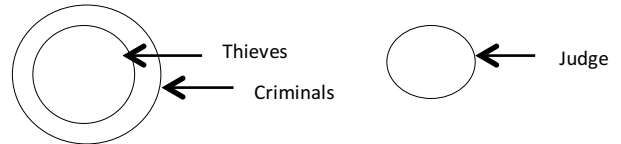
Both (A+B)'s pipes 1 min work =

$$\frac{1}{20} + \frac{1}{30} = \frac{3+2}{60} = \frac{5}{60} = \frac{1}{12}$$

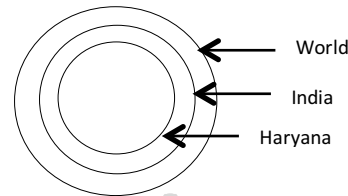
So, both pipes will fill the tank in 12 min

65. Speed upstream = (9-15) km/h = 7.5 km/h  
 Speed downstream = (9+15) km/h = 24 km/h  
 $\therefore$  Required time =  $\frac{105}{7.5} + \frac{105}{24} = 14 + 10 = 24 \text{ h}$

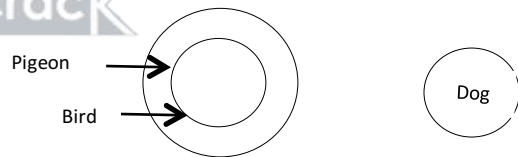
66. All Thieves become Criminals and Judge is entirely different.



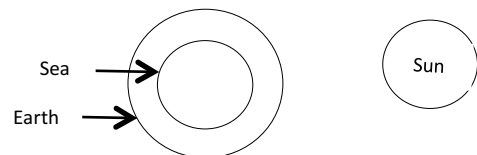
67. India is one of the country in world and Haryana is one of the state of India.



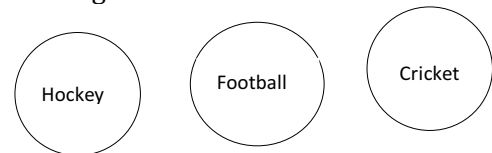
68. Pigeon belongs to the Bird group and Dog is entirely different.



69. Sea belongs to the Earth and Sun is entirely different.



70. Hockey, Football and Cricket are entirely different games.



71. As, 'Diamond' is the ore of 'Carbon' Similarly, 'Ruby' is the ore of 'Corundum.'

72. As, 'Building' is built (design) by 'Architect'. Similarly, 'Statue' is built by 'Sculptor'.

73. As, 'Myopia' is one of disease in 'Eye'. Similarly, 'Pyorrhoea' is one of disease in 'Teeth'.
74. As, 'Conference' is headed by 'Chairman'. Similarly 'Newspaper' is headed by 'Editor'.
75. As, Safe and Secure is synonym to each other , similarly, Protect and Guard is synonym to each other
76. Except 'Potassium', all others are used as semiconductor.
77. Except 'Chalk' all other are obtained from plants.
78. Except 'Park', all others are staying places of things.
79. Except 'Bow' all others are related with ship.
80. Except 'Sharp', all others belongs to same property while sharp is different.

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The logo for SSB Crack features a stylized yellow figure with arms raised, positioned above the text 'SSB Crack' in a bold, sans-serif font. The text is partially overlaid by a grey, semi-transparent banner that also contains the text 'SSB Crack' in a smaller font.

# Air Force Common Admission Test

## Solved Paper AFCAT – I/2014

**Directions:** Read the following passage carefully and answer the questions given below.

### Passage

And then Gandhi came. He was like a powerful current of fresh air that made us stretch ourselves and take deep breaths, like a beam of light that pierced the darkness and removed the scales from our eyes, like a whirlwind that upset many things but most of all the working of people's minds. He did not descend from the top; he seemed to emerge from the millions of India, speaking their language and incessantly drawing attention to them and their appalling condition. Get off the backs of these peasants and workers, he told us, all of you who live by their exploitation; get rid of the system that produces this poverty and misery.

- Q1.** Gandhi came like a powerful current of fresh air and –  
(a) awakened us to the plight of the masses in the grip of oppressors (b) made us patriotic  
(c) emboldened us to attack and destroy the oppressors (d) praised our culture  
**Answer (a)**

- Q2.** The rise of Gandhi--  
(a) shocked people (b) made India powerful (c) made the condemnation of the exploiter final (d) made women feel secure  
**Answer (c)**

- Q3.** Gandhi fought the--  
(a) rich (b) oppressor (c) apathetic masses (d) unjust system  
**Answer (d)**

- Q4.** The conspicuous role of Gandhi is that of a—  
(a) father (b) reformer (c) teacher (d) liberator  
**Answer (b)**

**Directions:** Select the most appropriate word from the options against each number :-

### Passage

Those living in the slums are **5** and tough because they are totally **6** to the vagaries and hardships of life. The rising sun **7** the day and the setting sun closes the day for them. It is like a drama where the curtain **8** up in the morning and comes down in the evening. They don't **9** hypertension and heart attacks because there is, after all **10** to worry about.

- Q5.** (a) Poor (b) Sick (c) Hardy (d) Weak  
**Answer (a)**
- Q6.** (a) Dependent (b) Independent (c) Exposed (d) Tried  
**Answer (c)**



- Q7. (a) Heralds (b) Herald (c) Bring (d) Brings  
**Answer (d)**
- Q8. (a) Hangs (b) Hand (c) Goes (d) Shines  
**Answer (c)**
- Q9. (a) Know (b) Get (c) Think (d) Have  
**Answer (d)**
- Q10. (a) Everything (b) Something (c) Somewhere (d) Nothing  
**Answer (d)**

**Directions:** Choose the word which is nearest in meaning to the given word :-

- Q11. 'TRANSGRESSOR'  
 (a) Passenger (b) Law-breaker (c) Protector (d) Comrade  
**Answer (b)**
- Q12. 'EGREGIOUS'  
 (a) Common (b) Social (c) Plain (d) Atrocious  
**Answer (d)**

**Directions:** Choose the word which is nearly opposite in meaning to the given word:-

- Q13. 'PREDILECTION'  
 (a) Oblivion (b) Objectivity (c) Aversion (d) Defeat  
**Answer (c)**
- Q14. 'CACOPHONOUS'  
 (a) Tamed (b) Harmonious (c) Domestic (d) Silent  
**Answer (d)**
- Q15. 'CALUMNY'  
 (a) Apology (b) Eulogy (c) Enjoyment (d) Reservation  
**Answer (b)**

**Directions:** Choose the word that best defines the given phrase:-

- Q16. 'Able to use both hands alike'  
 (a) Dexterous (b) Ambidextrous (c) Skilful (d) Expert  
**Answer (b)**
- Q17. A written account of the life of an individual.  
 (a) Autobiography (b) Epigraph (c) Biography (d) Novel  
**Answer (a)**
- Q18. 'The identification of a disease by its symptoms'  
 (a) Prescription (b) Prognosis (c) Diagnosis (d) Biopsy  
**Answer (c)**
- Q19. 'Prolonged inability to sleep'  
 (a) Amnesia (b) Utopia (c) Nausea (d) Insomnia  
**Answer (d)**

- Q20.** 'A style in which a writer makes a display of his knowledge'  
(a) Verbose (b) Pedantic (c) Ornate (d) Pompous  
**Answer (b)**

**Directions:** Choose the correctly spelt word:-

- Q21.** The school alumni gathering put us in a \_\_\_\_\_ mood.  
(a) Remniscent (b) Reminisent (c) Reminiscent (d) Remincent  
**Answer (c)**

- Q22.** 'God is Dead' is a \_\_\_\_\_ statement.  
(a) Blasphemus (b) Blaphemous (c) Blasphemous (d) Blosphemos  
**Answer (c)**

- Q23.** The threat of an epidemic caused great alarm and \_\_\_\_\_.  
(a) Trepidation (b) Terpidation (c) Trepidition (d) Trepidattion  
**Answer (a)**

- Q24.** The din caused by the children howling is enough to \_\_\_\_\_ the dead.  
(a) Ressurrect (b) Resurrect (c) Resurect (d) Resurecct  
**Answer (b)**

- Q25.** Can you \_\_\_\_\_ the car into that parking spot?  
(a) Manuer (b) Manever (c) Manoeuvre (d) Manuver  
**Answer (c)**

**Directions:** Choose most appropriate answer.

- Q26.** Who was the Governor-General of India during the 'Sepoy Mutiny'?  
(a) Lord Dalhousie (b) Lord Harding (c) Lord Canning (d) Lord Lytton  
**Answer (c)**

- Q27.** Which of the following statements is incorrect?  
(a) Goa attained full statehood in 1987 (c) Daman & Diu were separated from Goa by the 56th Amendment of the Constitution of India  
(b) Diu is an island in the Gulf of Khambhat (d) Dadar & Nagar Haveli were under French colonial rule till 1954.  
**Answer (d)**

- Q28.** On which river is Washington DC situated?  
(a) Potomac (b) Irrawaddy (c) Mississippi (d) Hudson  
**Answer (a)**

- Q29.** When body is accelerated--  
(a) Its velocity never changes (b) Its speed will always changes  
(c) Its direction always changes (d) Its speed may or may not change  
**Answer (b)**

- Q30.** Which of the following is not an agency of UN?  
(a) World Bank (b) International Atomic Energy Agency (c) Universal Postal Union (d) None of the above  
**Answer (d)**

- Q31.** Which kind of missile is BRAHMOS?  
(a) Medium range ballistic missile (b) Supersonic cruise missile  
(c) Short range tactical missile (d) Ultrasonic cruise missile  
**Answer (b)**
- Q32.** Which of the following is not a unit of energy?  
(a) Calorie (b) Joule (c) electron volt (d) Watt  
**Answer (c)**
- Q33.** Who among the following has been called the 'Napoleon of India'?  
(a) Ashoka (b) Samudragupta (c) Chandragupta (d) Harshavardhana  
**Answer (b)**
- Q34.** Who is known as the 'Grand Old Man of India'?  
(a) Dadabhai Naoroji (b) Gopal Krishna Gokhale (c) Bal Gangadhar Tilak (d) A.O. Hume  
**Answer (a)**
- Q35.** Which amongst the following has the power to regulate the right of citizenship in India?  
(a) Union Cabinet (b) Parliament (c) Supreme Court (d) Law Commission  
**Answer (b)**
- Q36.** The Baglihar Hydroelectric power project in J & K is built across the river.--.  
(a) Beas (b) Chenab (c) Jhelum (d) Sutlej  
**Answer (b)**
- Q37.** Which Indian sportsperson was appointed as 'Messenger of Peace' in 2001 by the UN?  
(a) Prakash Padukone (b) Vishwanathan Anand (c) Sachin Tendulkar (d) Vijay Amritraj  
**Answer (d)**
- Q38.** Indian Women's hockey team secured which of the following position in Asian Champions Trophy 2013?  
(a) First (b) Second (c) Third (d) Fourth  
**Answer (c)**
- Q39.** Which is the longest bone in the human body?  
(a) Fibula (b) Radius (c) Stapes (d) Femur  
**Answer (d)**
- Q40.** A US team of scientists has found that the mechanism responsible for the ageing process is Located –  
(a) Inside the face (b) Inside the skin (c) Inside the brain (d) Inside the heart  
**Answer (c)**
- Q41.** The outer most layer of the Sun is known as---  
(a) Corona (b) Photosphere (c) Chromosphere (d) Granule  
**Answer (a)**
- Q42.** Indian Institute of Science, Bangalore was founded by---  
(a) CV Raman (b) Jamsetji Tata (c) Vikram Sarabhai (d) None of the above  
**Answer (b)**

**Q43.** Which among the following is not a gallantry medal?  
(a) Ashok Chakra (b) Arjuna Award (c) Param Vir Chakra (d) Shaurya Chakra  
**Answer (b)**

**Q44.** Which one of the following pairs of water bodies are connected by the Suez Canal?  
(a) Indian Ocean- Pacific Ocean (b) Mediterranean sea- Black Sea  
(c) Mediterranean Sea-Red Sea (d) Atlantic Ocean- Pacific Ocean  
**Answer (c)**

**Q45.** Kalhana's 'Rajatarangini' is a history of--  
(a) Kashmir (b) Harsha's reign (c) Rajasthan (d) Chandragupta's reign  
**Answer (a)**

**Q46.** The Constitution of India was promulgated on January 26, 1950 because—  
(a) This day was being celebrated as the Independence Day since 1929 (b) This was desired by the farmers of India  
(c) The British did not want to leave India earlier than this date (d) It was an auspicious day  
**Answer (a)**

**Q47.** Which of the following is not correctly matched?  
(a) Indonesia - Jakarta (b) Maldives - Male (c) North Korea - Seoul (d) Zimbabwe - Harare  
**Answer (c)**

**Directions:** *In the following questions complete the series*

**Q48.** A, B, D, G, ?, P  
(a) I (b) J (c) K (d) L  
**Answer (c)**

**Q49.** Z, S, W, O, T, K, Q, G, ?, ?  
(a) N,D (b) N,C (c) O,C (d) O,D  
**Answer (b)**

**Q50.** BCD , RQP , LMN, TS?  
(a) U (b) V (c) R (d) T  
**Answer (c)**

**Directions.** *If A = C, B = D, C = E and so on, code the following:-*

**Q51.** 'STUDENT'  
(a) VWVFGPV (b) UUWFGPV (c) UVWFGPV (d) UVVFGPV  
**Answer (c)**

**Directions:** *If A = Z, B = Y and so on, code the following:-*

**Q52.** 'EDITOR'  
(a) VWRGLI (b) VWRGVI (c) VWVGLI (d) VWRLLI  
**Answer (a)**

**Directions:** Choose the most appropriate word:-

**Q53.** 'RUSTLE' is to 'LEAVES' as 'PATTER' is to \_\_\_\_\_  
(a) Snow (b) Wind (c) Rain (d) Storm  
**Answer (c)**

**Q54.** 'INDISCREET' is to 'IMPRUDENT' as 'INDISPOSED' is to \_\_\_\_\_  
(a) Concerned (b) Reluctant (c) Crucial (d) Clear  
**Answer (b)**

**Q55.** 'ACCIDENT' is to 'CAREFULNESS' as 'DISEASE' is to \_\_\_\_\_  
(a) Sanitation (b) Treatment (c) Medicine (d) Doctor  
**Answer (a)**

**Directions:** Each of the following questions has four statements. Three are logically correct. Some of which may look factually absurd. Ignore this absurdity and look to the logical corrections. Choose the statement which is wrong or doubtful:-

**Q56.** (a) Birds fly in the air. Trees are birds. Therefore, trees fly in the air.  
(b) Some boys steal. All who steal are naughty. All naughty are honest. Therefore, some boys are honest  
(c) All girls like dance. Some girls are Indian. All Indians are artists. Therefore, some artists like dance.  
(d) All liars are not thieves. All thieves are criminals. Therefore, all liars are criminals.  
**Answer (d)**

**Q57.** (a) Ramesh is tall. Ramesh is a boy. Therefore, boys are tall.  
(b) All who can fly are animals. Some birds can fly. Therefore, some birds are animals.  
(c) Men live in houses. Houses grow on trees. Trees float in water. Therefore, men float in water.  
(d) All living things are mobile. Some non- living things are mobile. Therefore, some mobile are living and some non-living.  
**Answer (a)**

**Q58.** (a) All books can read. Some pencils are books. All pencils are clever. Therefore, all clever cannot read.  
(b) Some who fail are stupid. Some criminals are stupid. Therefore, all criminals fail.  
(c) Some liar are thieves. All thieves are criminals. Therefore, some liars are criminals.  
(d) All that is given is black. Trees are green. Therefore, trees are black.  
**Answer (b)**

**Directions:** Consider the statement and assumptions that follow. Which of these assumptions is/are implicit in the statement:-

**Q59. Statement:** "You won't get sweets at any cost. I will not let you eat things that are not good for your teeth" --- a mother tells her child.

**Assumption:**

- (i) The mother cares for her child.
  - (ii) Sweets are not good for her child.
  - (iii) The mother has the authority to decide what her child is to eat.
- (a) (i) & (ii) are implicit (b) (ii) & (iii) are implicit  
(c) (i) & (iii) are implicit (d) All are implicit  
**Answer (a)**



**Q69.** Funk : Vitamins :: Curie : ?  
(a) Uranium (b) Radioactivity (c) Photography (d) Radium

**Answer (b)**

**Q70.** Contamination : Food :: Infection : ?  
(a) Diseases (b) Body (c) Germs (d) Microbes

**Answer (b)**

**Directions:** *In the following questions choose the most appropriate answer*

**Q71.** An article costs Rs 50 presently. The rate of inflation is 300%. What will be cost of this article after two years?

(a) ₹ 200 (b) ₹ 600 (c) ₹ 800 (d) ₹ 1000

**Answer (c)**

**Q72.** A dishonest shopkeeper professes to sell his groceries at his cost price, but uses a false weight of 900 grams for each kilogram. Find his gain percentage.

(a) 91/9 % (b) 100/9% (c) 100/11 % (d) 95/9%

**Answer (b)**

**Q73.** A man purchased a bullock and a cart for ₹ 1800. He sold the bullock at a profit of 20% and the cart at a profit of 30%. His total profit was 155/6 %. Find the cost price of bullock.

(a) ₹ 650 (b) ₹ 750 (c) ₹ 900 (d) ₹ 800

**Answer (b)**

**Q74.** There were 35 students in a hostel. If the number of students be increased by 7, the expenditure on food increases by ₹ 42 per day while the average expenditure of students is reduced by ₹ 1. What was the initial expenditure on food per day?

(a) 432 (b) ₹ 442 (c) ₹ 420 (d) ₹ 400

**Answer (c)**

**Q75.** There were 24 students in a class. One of them, who was 18 years old, left the class and his place was filled up by a new comer. If the average of the class was thereby lowered by 1 month, the age of new comer is –

(a) 14 yr (b) 15 yr (c) 16 yr (d) 17 yr

**Answer (c)**

**Q76.** Find two natural numbers whose sum is 85 and the least common multiple is 102.

(a) 30 & 55 (b) 17 & 68 (c) 35 & 55 (d) 51 & 34

**Answer (d)**

**Q77.** In a fort there was sufficient food for 200 soldiers for 31 days. After 27 days, 120 soldiers left the fort. For how many extra days will the rest of the food last for the remaining soldiers?

(a) 12 days (b) 10 days (c) 8 days (d) 6 days

**Answer (b)**

**Q78.** 10 is added to a certain number, the sum is multiplied by 7, the product is divided by 5 and 5 is subtracted from the quotient. The remainder left is half of 88. What is the number?

(a) 21 (b) 20 (c) 25 (d) 30

**Answer (c)**

- Q79.** 19 persons went to a hotel for a combined dinner party. 13 of them spent ₹ 79 each on their dinner and the rest spent ₹ 4 more than the average expenditure of all the ₹19. What was the total money spent by them?  
 (a) 1628.4 (b) 1534 (c) 1492 (d) None of these  
**Answer (d)**

- Q80.** Two typists of varying skills can do a typing job in 6 minutes if they work together. If the first typist typed alone for 4 minutes and then the second typist typed alone for 6 minutes, they would be left with  $\frac{1}{5}$  of the whole work. How many minutes would it take the slower typist to complete the typing job working alone?  
 (a) 10 minutes (b) 15 minutes (c) 12 minutes (d) 20 minutes  
**Answer (b)**

- Q81.** A bag contains 25 paise, 50 paise and ₹ 1 coins. There are 220 coins in all and the total amount in the bag is ₹ 160. If there are thrice as many ₹ 1 coins as there are 25 paise coins, then what is the number of 50 paise coins?  
 (a) 60 (b) 40 (c) 120 (d) 80  
**Answer (a)**

- Q82.** The sum of two numbers is equal to thrice their difference. If the smaller of the numbers is 10 find the other number.  
 (a) 15 (b) 30 (c) 40 (d) None of these  
**Answer (d)**

- Q83.** If a person repaid ₹ 22500 after 10 years of borrowing a loan, at 10% per annum simple interest find out what amount did he take as a loan?  
 (a) ₹ 11225 (b) ₹ 11250 (c) ₹ 10000 (d) ₹ 7500  
**Answer (b)**

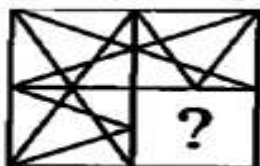
- Q84.** A sum of money invested at simple interest triples itself in 8 years. How many times will it become in 20 yr time?  
 (a) 8 (b) 7 (c) 6 (d) 9  
**Answer (c)**

- Q85.** Simplify:  $\frac{69 \times 69 \times 69 - 65 \times 65 \times 65}{69 \times 69 + 69 \times 65 + 65 \times 65}$   
 (a) 1 (b) 4 (c) 0.216 (d) 0.164  
**Answer (b)**

**Directions:** *In these tests you will find an Incomplete Figure and four Answer Figures. You have to select one diagram from the Answer Figures which fits into the blank column in Incomplete Figure in order to complete it:*

**Q86.**

**Incomplete Figure**



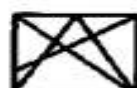
**Answer Figures**



(a)



(b)



(c)



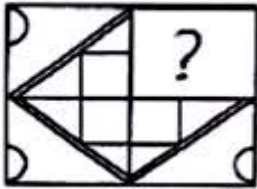
(d)

**Answer (b)**

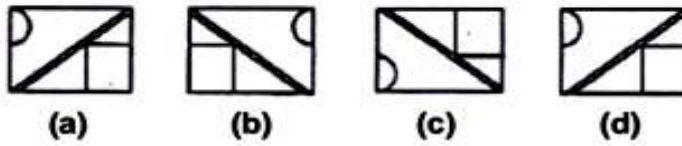


Q87.

Incomplete Figure



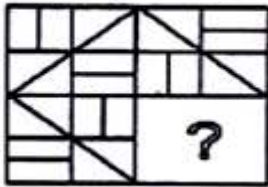
Answer Figures



Answer (b)

Q88.

Incomplete Figure



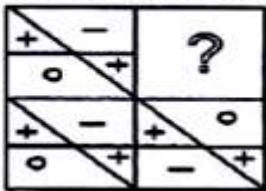
Answer Figures



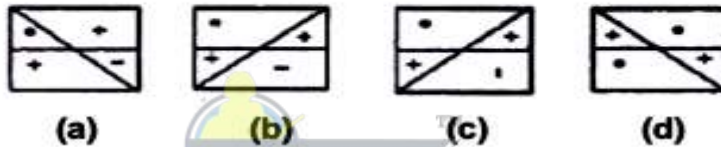
Answer (c)

Q89.

Incomplete Figure

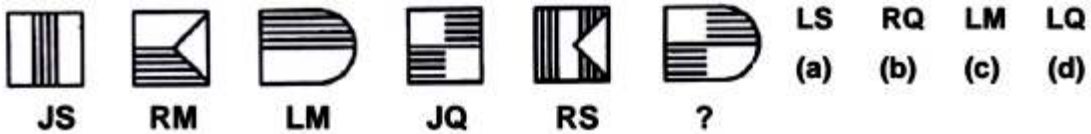


Answer Figures



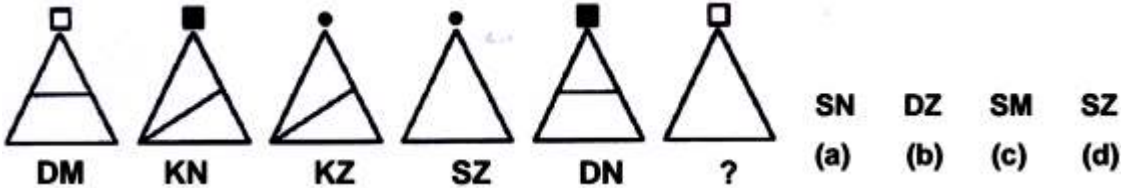
Answer (a)

Q90.



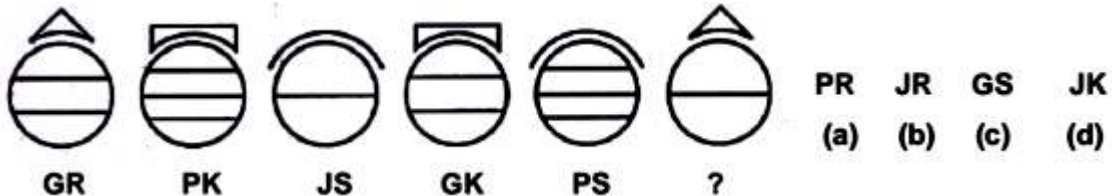
Answer (d)

Q91.



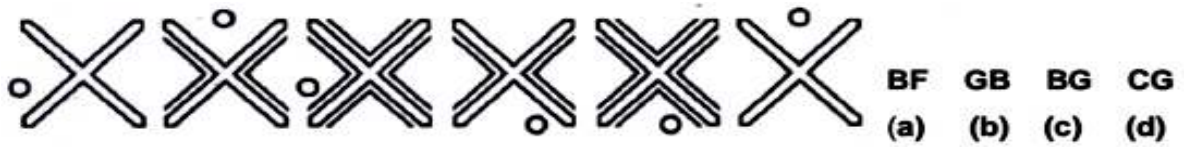
Answer (c)

Q92.



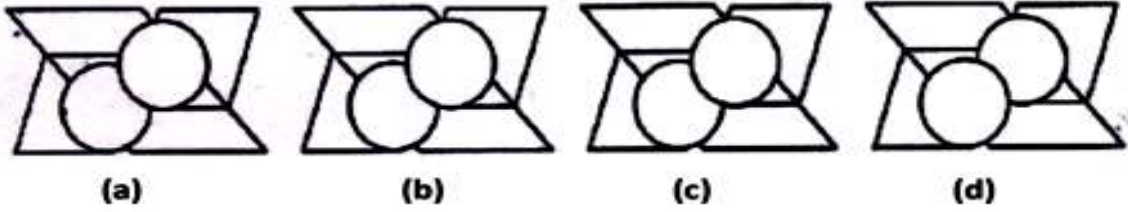
Answer (b)

Q93.



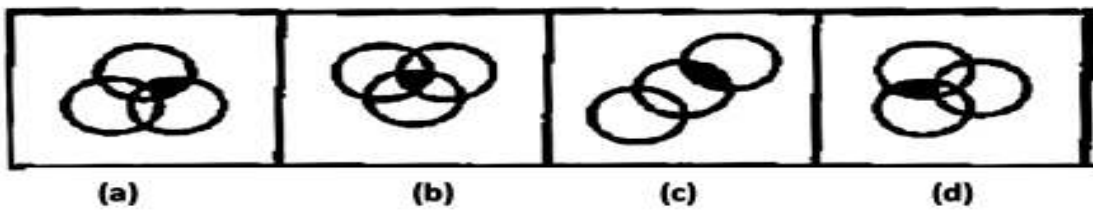
Answer (a)

Q94.



Answer (d)

Q95.



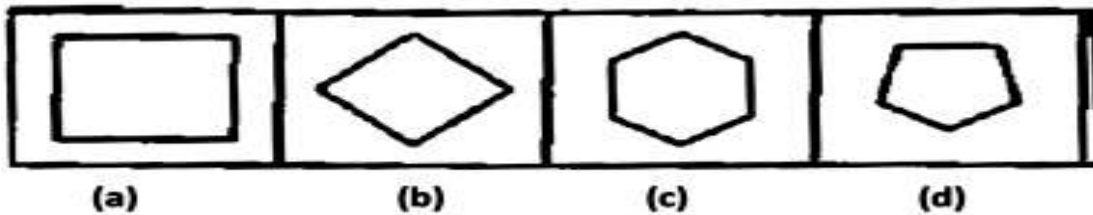
Answer (b)

Q96.



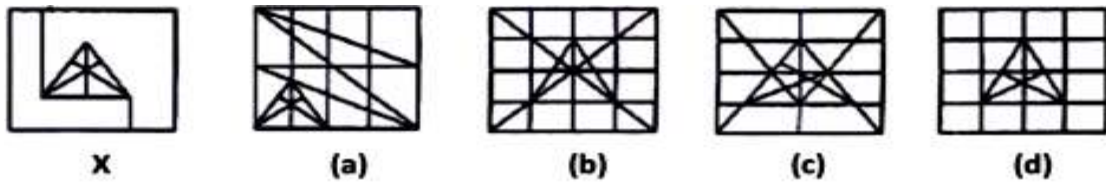
Answer (d)

Q97.



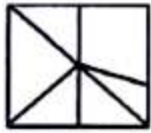
Answer (d)

Q98.

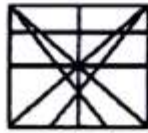


Answer (b)

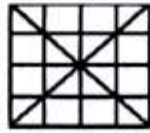
Q99.



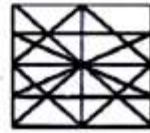
X



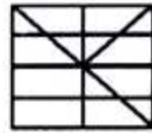
(a)



(b)



(c)



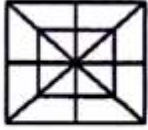
(d)

Answer (c)

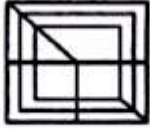
Q100.



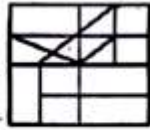
X



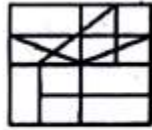
(a)



(b)



(c)



(d)

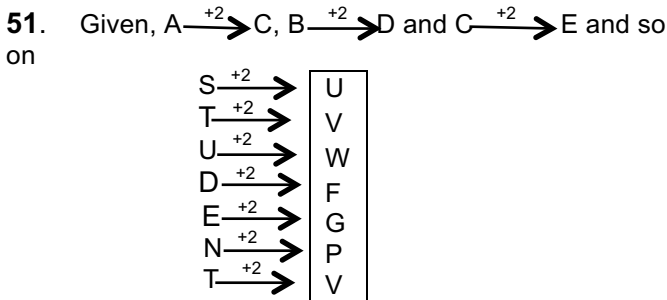
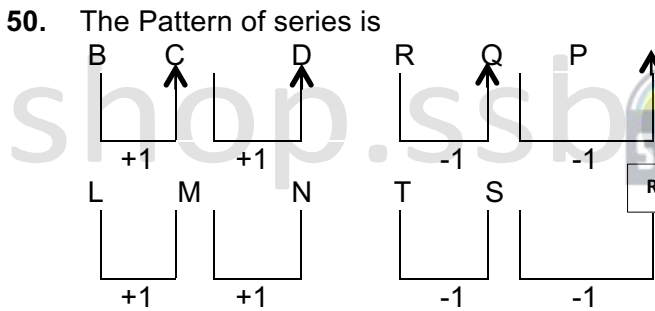
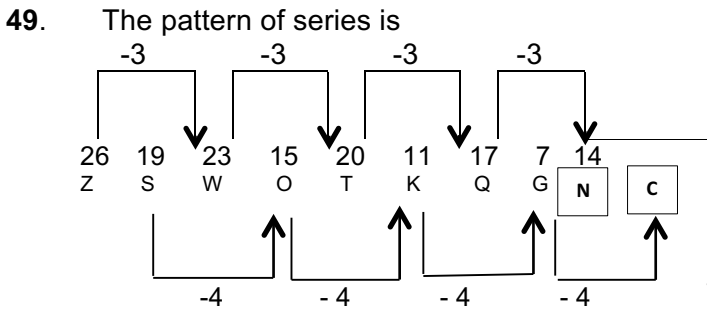
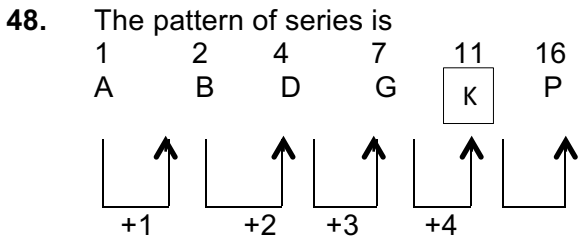
Answer (a)

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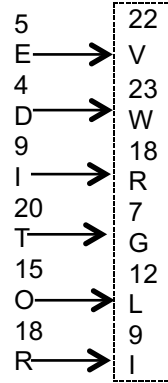
# Hints and Solutions

**Q. No**



**52.** Given, A = z, B = Y and so on

**Note-** Letters are written in opposite sequence. Similarly,



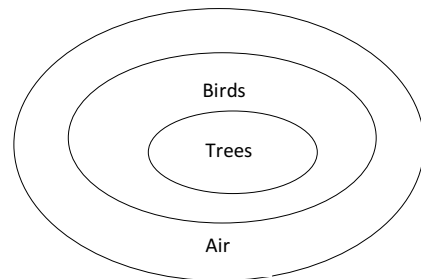
When two letters sum is 27, then it becomes opposite letter to each other.

**53.** As, 'Rustle' is the sound of 'Leaves'. Similarly, 'Patter' is the sound of 'Rain'.

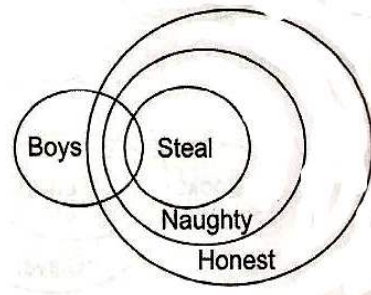
**54.** As, 'Indiscreet' is the synonym of 'Imprudent'. Similarly, 'Indisposed' is the synonym of 'Reluctant'.

**55.** As, 'Accident' occur due to 'Carefulness'. Similarly, 'Disease' occur due to 'Sanitation'.

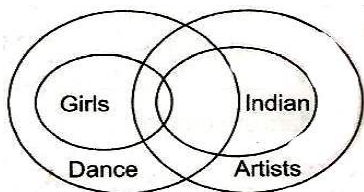
**56.** (a) So, trees fly in the air.



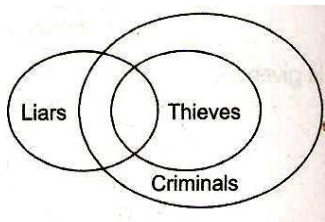
(b) So, some boys are honest.



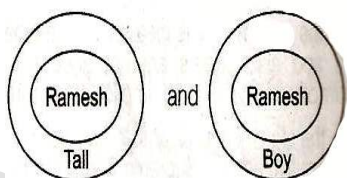
(c) So, some artists like dance.



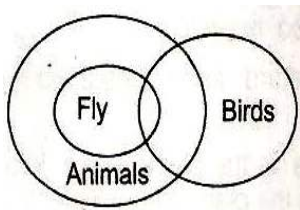
(d) So, all liars are not criminals.



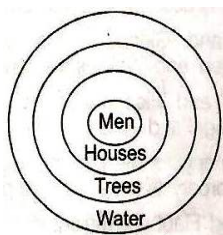
57. (a) So, boys are tall is doubtful because here only Ramesh boy information is given.



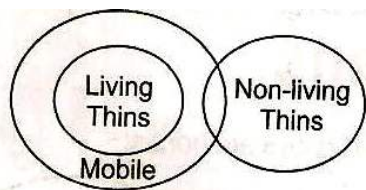
(b) So, some birds are animals.



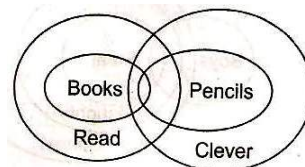
(c) So, men float in water.



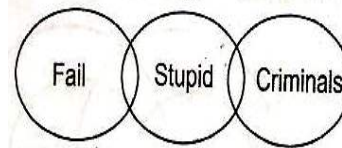
(d) So, some mobile are living and some non-living



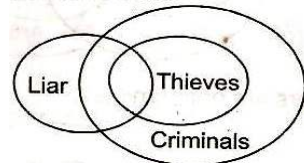
58. (a) So, all clever cannot read.



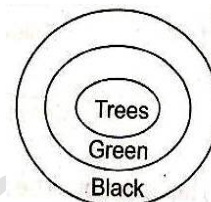
(b) So, all criminal fail is wrong.



(c) So, some liars are criminals.



(d) That is given means – Trees.



59. From the statement it is clear that the mother cares for her child and also sweets are not good for her child. So, assumptions (i) and (ii) are implicit in the statement.

60. From the statement is clear that the Supreme Court is above the executive and the Supreme Court is more active that the executive. So, assumptions (i) and (ii) are implicit in the statement.

61. Except 'Tsangpo', all others are wild life sanctuary of India but 'Tsangpo' is a revier.

62. Except 'Mustard', all others are food grains while 'Mustard' is an oil seed.

63. As, 'Creche' is the place where Infants are kept. Similarly, 'Cottage' is the place where 'Guests' are kept.

64. As, 'Pesticide' is used for safety of 'Plant'. Similarly, 'Vaccination' is used for safety of 'Body'.

65. As, 'Stare' and 'Glance' is the synonym to each other. Similarly, 'Step' and 'walk' is the synonym to each other.

66. As 'Ecstasy' and 'Pleasure' is the synonym to each other. Similarly, 'Rage' and 'Anger' is the synonym to each other.

67. As, 'Necromancy' is the evil thing performed by 'Ghosts'. Similarly, 'Sorcery' is the evil things performed by 'Spirit'.

68. As, 'Firm' and 'Flabby' is the antonym to each other.

69. As, 'vitamins' is discovered by 'Funk'. Similarly, 'Radioactively' is discovered by 'Curie'.

70. As, 'Contamination, affected 'Food'. Similarly, 'Infection' affected 'Body'.

71. Use formula:  
 $P(1+r/100)^n$   
Where r is rate and n is time  
 $50(1+300/100)^2$   
**=800**

72. True weight = 1000 g, Selling weight = 900 g  
Error weight = (1000-900)g = 100 g  
 $\therefore$  Gain percentage =  $\frac{\text{Error Weight}}{\text{Selling weight}} \times 100$   
 $= \frac{100}{900} \times 100 = \frac{100}{9} \%$

73. Cost Price of bullock and cart = Rs. 1800.  
Let bullock price was X and cart price was (1800 - X)  
SP of both = 1800 + 155/6% of 1800 = 2265  
Profit = Rs. 465.  
 $X + 0\% \text{ of } X + (1800-X) + 30\% \text{ of } (1800 - X)$   
 $= 2265$   
 $1.2X + 1800 - X + (54000 - 30X)/100 = 2265$   
 $1.2X + 1800 - X + 540 - 0.3X = 2265$   
 $.2X - 1.3X = 2265 - 1800 - 540$   
 $- 0.1X = - 75$   
 $X = 750$ .  
Cost of bullock is Rs. **750**.

74. Let original average expenditure was X.  
Total expenditure = 35X.  
Now, According to question,  
 $35X + 42 = (X - 1) \times 42$   
 $35X + 42 = 42X - 42$   
 $7X = 84$   
 $X = \text{Rs. } 12$

So, Initial expenditure would be  $12 \times 35 = \text{₹ } 420$

75. Age of new comer =  $18 - (24 \times \frac{1}{12}) = (18-2)$  yr  
**= 16 yr**

76. From option (d),  $51 + 4 = 85$  and  $51 \times 2 = 102$   
 $34 \times 3 = \mathbf{102}$

77. Suppose rest of food remaining for x days.  
Then  $200 \times 31 = 200 \times 27 + (200-120) \times x$   
 $\Rightarrow 6200 = 5400 + 200x - 120x \Rightarrow 80x = 800$   
 $x = \frac{800}{80} = \mathbf{10 \text{ days}}$

78. Let number is X.  
When 10 added to it, = (X+10)  
7 multiplied to sum, = 7\*(X+10)  
Now,  
 $= \{7*(X+10)\} / 5$   
And,  
 $= \{7*(X+10)\} / 5 - 5$   
According to question,  
 $\{7*(X+10)\} / 5 - 5 = \text{half of } 88$   
 $\{(7X+70)/5\} = 44 + 5$   
 $7X + 70 = 49 * 5$   
 $X + 10 = 7 * 5$   
 $X + 10 = 35$   
 $X = 35 - 10$   
 $X = 25$   
So, required number is: **25**.

79. Let average expenditure of 19 people be x.  
then,  
 $19x = 13*79 + 6*(x+4)$ ;  
Or,  $19x = 13*79 + 6x + 24$ ;  
Or,  $x = 80.84$ ;  
So, total money spent =  $80.84 * 19 =$   
**Rs. 1536.077**  
Hence Answer will be **(d)**

80. Working efficiency of both typist together,  
 $= 100/6 = 16.66\%$  per minute  
Now, let work efficiency of first typist be x and then  
second typist will be (16.66 - x)  
First typist typed alone for 4 minutes and second  
typed alone for 6 minutes and they left with 1/5 (i.e  
20%) of job, means they have completed 80% job.  
Now,  
First Typist typed in 4 minute + Second typed in 6  
minutes = 80%  
 $4 * x + 6 * (16.66 - x) = 80\%$

$$4x + 100\% - 6x = 80\%$$

$$x = 10\%$$

First Typist typed 10% per minutes. Then second typed  $(16.66 - 10) = 6.66\%$  per minute

Then, Second typist complete the whole job in  $100/6.66 = 15.01 = 15$  minutes.

81. Let there are X one rupee's coin, Y 50 paise's coins and Z 25 paise's coins.

Now,

$$X + Y + Z = 220 \text{ ----- (1)}$$

Total amount = Rs. 160

Now,

$$X + (Y/2) + (Z/4) = 160$$

$$4X + 2Y + Z = 640 \text{ ----- (2)}$$

Thrice as many 1 Re coins as 25 paise,

$$X = 3Z \text{ ----- (3)}$$

On Solving equations 1, 2 and 3,

$$Z = 40$$

$$X = 3 * 40 = 120$$

$$Y = 220 - (120 + 40) = 60$$

50 paise's coins = 60.

82. Let two numbers are X and Y. Y is the smaller number.

Given,

$$Y = 10$$

And,

According to question,

$$(X + Y) = 3 * (X - Y)$$

$$(X + 10) = 3 * (X - 10)$$

$$X - 3X = -30 - 10$$

$$-2X = -40$$

$$X = 20.$$

So, the required number is 20.

83. Suppose loan amount = ₹x

$$\text{Then, } x + \frac{x \times 10 \times 10}{100} = 22500 \Rightarrow 2x = 22500$$

$$\Rightarrow x = ₹ 11250$$

$$84. A = P(1 + (rt/100))$$

So A = 3P (Becoz it triples)

$$3P = P(1 + (8r/100))$$

so By this we get r = 25%

Now when time is 20 years

$$A = P(1 + (25 * 20 / 100)) = P(1 + 5)$$

$$A = 6P$$

So It Becomes 6 times

85. Let a = 69 and b = 65

$$\therefore \frac{69 \times 69 \times 69 - 65 \times 65 \times 65}{69 \times 69 + 69 \times 65 + 65 \times 65} = \frac{a^3 - b^3}{a^2 - ab + b^2}$$

$$= \frac{(a-b)(a^2 + b^2 + ab^2)}{a^2 + ab + b^2} = a - b = 69 - 65 = 4$$

86. Answer figure (b) will complete the question figure.

87. Answer figure (b) will complete the question figure.

88. Answer figure (c) will complete the question figure.

89. Answer figure (a) will complete the question figure.

90. From Figure (3) - L and Figure (4) - Q

$$\therefore \text{Figure (3)} \Rightarrow \text{LQ}$$

91. From figure (4), S and figure (1), M

$$\therefore \text{Figure (4)} \Rightarrow \text{SM}$$

92. From figure (3), J and figure (1), R

$$\therefore \text{Figure (3)} \Rightarrow \text{JR}$$

93. From figure (2) B and figure (1) F

$$\therefore \text{Figure (2)} \Rightarrow \text{BF}$$

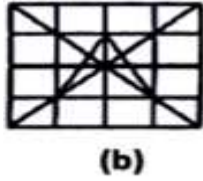
94. Except figure (d), all others lower circle is put on upper circle but in figure (d) upper circle is put on lower circle.

95. Only figure (b), shaded portion is common in all three circles.

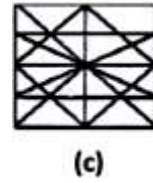
96. Except figure (d), all others two-two designs are opposite to each other but in figure (d) two designs in same directions.

97. Except figure (d), all others are sum (four, six) lines geometrical figure but in figure (d) geometrical design has odd (five) lines.

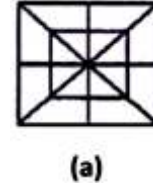
98. Question figure is hidden in answer figure (b).



99. Question figure is hidden in answer figure (c).



100. Question figure is hidden in answer figure (a).



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# Air Force Common Admission Test

## Solved Paper AFCAT –2013

**Directions:** Read the following passage carefully and answer the questions given below.

### Passage

We shall go on to the end, we shall fight in France, we shall fight on the seas and oceans, we shall fight with the growing confidence and strength in the air, we shall defend our island whatever the cost may be, we shall fight on the beaches, we shall fight on the landing grounds, we shall fight in the fields and in the streets, we shall fight in the hills. We shall never surrender, and even if this island or a large part of it were subjugated and starving, then our empire beyond the seas would carry on the struggle, until the New World steps forth to the rescue and the liberation of the Old.

**Q1.** On the basis of the passage which of the following statements may be said to be correct?

- (a) The speaker is encouraging his men for the conquest of France
- (b) The speaker is an aggressive and maniacal war-monger
- (c) The speaker is not satisfied with the conquest of the island
- (d) The speaker is a patriot urging the defence of his motherland

**Answer (d)**

**Q2.** The speaker in the passage wants to go on fighting because:-

- (a) He is a raving lunatic
- (b) He is in a state of utter despair
- (c) He expects help from other quarters
- (d) He is the leader of a suicide squad

**Answer (b)**

**Q3.** Which of the following pair of the phrases helps best to bring out the intention of the speaker?

- (a) "Go on to the end", "shall never surrender"
- (b) "Growing confidence", "subjugated and starving"
- (c) "Subjugated and starving", "fighting on the landing ground"
- (d) "Fighting in the streets", "subjugated and starving"

**Answer (a)**

**Q4.** The passage consists of repetitive patterns in syntax and vocabulary. The effect of this style is that it-

- (a) Reveals the speaker's defects in giving a speech
- (b) Produces the impression of bad poetry
- (c) Conveys the speaker's helpless situation
- (d) Reinforces the speaker's basic intention

**Answer (d)**

- Q5.** The tone of the speaker is:-  
(a) Pleading and urging  
(b) Inspiring and encouraging  
(c) Discouraging and gloomy  
(d) Menacing and bullying  
**Answer (b)**

**Directions:** In each of the following, choose the word most similar in meaning to the word given in capitals.

- Q6.** MEDDLE  
(a) Disregard (b) Overlook (c) Interfere (d) Free  
**Answer (c)**
- Q7.** ABJURE  
(a) Renounce (b) Run off secretly (c) Abide (d) Discuss  
**Answer (a)**
- Q8.** ESTRANGE  
(a) Endanger (b) To become puzzling (c) Miscalculate (d) Alienate  
**Answer (d)**

**Directions:** In each of the following, choose the word most nearly opposite in meaning to the word given in capitals.

- Q9.** DEROGATORY  
(a) Conferred (b) Immediate (c) Praising (d) Private  
**Answer (c)**
- Q10.** WANE  
(a) Widen (b) Poor (c) Swell (d) Tight  
**Answer (c)**

**Directions:** In each of the following questions, find out which part has an error?

- Q11.** The police has (a)/arrested the thief (b)/who broke into my house (c)/last night, (d)  
**Answer (a)**
- Q12.** The man who (a)/ they thought to be (h)/ a gentleman turned out (c)/ to be a rogue. (d)  
**Answer (d)**
- Q13.** I told him on his face (a)/that he could not hope (b)/ to pass the stringent (c)/Medical examination of the Services Selection Board. (d)  
**Answer (b)**
- Q14.** Mohan is one of those boys (a)/ who has expressed (b)/ willingness for joining (c)/ the educational tour, (d)  
**Answer (b)**
- Q15.** I may spend {a}/ this summer vacations (b)/with one of my friends(c)/ in the back waters of Kerala, (d)  
**Answer (b)**

**Directions:** Pick up the most effective word from the given words to fill in the blanks to make the sentence meaningfully complete.

**Q16.** According to the weather \_\_\_\_\_ it is going to be cloudy today.

- (a) Announcement (b) indication  
(c) Prediction (d) Forecast

**Answer (d)**

**Q17.** The villagers \_\_\_\_\_ the murder of their leader by burning the police van.

- (a) Protested (b) Avenged  
(c) Mourned (d) Consoled

**Answer (a)**

**Q18.** While on a routine flight, the aircraft was hit by a missile and \_\_\_\_\_ into flames.

- (a) Fired (b) Burst  
(c) Caught (d) Engulfed

**Answer (d)**

**Q19.** Hari got the company car for a \_\_\_\_\_ price as he was the senior most employee in the company.

- (a) Reduced (b) Discounted  
(c) Fixed (d) Nominal

**Answer (b)**

**Q20.** The unruly behavior of the soldiers \_\_\_\_\_ their commander.

- (a) clashed (b) aggrieved  
(c) incensed (d) impeached

**Answer (c)**

**Directions:** Choose the correct answer.

**Q21.** *Who accorded the title 'Mahatma' to MK Gandhi?*

- (a) Sardar Patel (b) Jawaharlal Nehru  
(c) Sarojini Naidu (d) Rabindranath Tagore

**Answer (d)**

**Q22.** The Non Co-operation Movement started in which year?

- (a) 1900 (b) 1921  
(c) 1940 (d) 1935

**Answer (b)**

**Q23.** During the Middle Ages education was confined only to

- (a) Kshatriyas (b) Brahmins  
(c) Peasants (d) Shudras

**Answer (b)**

**Q24.** Who among the following was responsible for the spread of Buddhism in Sri Lanka?

- (a) Ashoka (b) Mahavira  
(c) Parsavanth (d) Chandra Gupta Maurya

**Answer (a)**

- Q25.** The elements which have low value of ionization potential are strong:-  
 (a) oxidising agents (b) reducing agents  
 (c) oxidising and Reducing agents depending upon the reactants (d) none of these  
**Answer (b)**
- Q26.** Wayne Rooney, the famous footballer, hails from which country?  
 (a) Italy (b) Brazil  
 (c) Argentina (d) England  
**Answer (d)**
- Q27.** The official song 'WakaWaka' of FIFA World Cup held in the year 2010 at South Africa was sung by which popular singer?  
 (a) Madonna (b) Destiny Child  
 (c) Shakira (d) Rehana  
**Answer (c)**
- Q28.** In the year 2011, the ace badminton player Saina Nehwal was honoured with which sports award?  
 (a) Dronacharya award (b) Rajiv Gandhi Khel Ratna award  
 (c) Arjun award (d) None of these  
**Answer (b)**
- Q29.** Term 'Visible Horizon' in astronomy is defined as  
 (a) the circle of contact of the earth and the cone of visual rays passing through the meridian of the place. (b) the circle of contact of the earth and the cone of visual rays not passing through the meridian of the place.  
 (c) The circle of contact of the earth and the cone of visual rays passing through the point of observation (d) The circle of contact of the earth and the cone of visual rays not passing through the point of observation.  
**Answer (c)**
- Q30.** NREGA stands for:  
 (a) National Revenue Engagement Guarantee Association (b) National Revenue Employment Guarantee Act  
 (c) National Rural Employment Guarantee Association (d) National Rural Employment Guarantee Act  
**Answer (d)**
- Q31.** River Satluj originates from:  
 (a) Northern slopes of the Kailash range (b) Spring at Verinarg  
 (c) Rakas Lake (d) Amarkaritak plateau  
**Answer (c)**
- Q32.** Limonitic ore is the ore of which metal?  
 (a) iron (b) Aluminium  
 (c) Zinc (d) Cobalt  
**Answer (a)**
- Q33.** Black revolution relates to which of the following?  
 (a) Self-dependence in foodgrains production (b) Self-dependence in milk production  
 (c) Self-dependence in petroleum/ crude oil (d) None of these  
**Answer (c)**

**Q34.** Karrar is the unmanned bomber aircraft of:

- (a) Iraq (b) Iran  
(c) Turkey (d) Pakistan

**Answer (b)**

**Q35.** Who is the author of book 'Keeping the Faith: Memoirs of a Parliamentarian'?

- (a) David Orriand (b) Raja Shehadeh  
(c) Raghav Bahl (d) Somnath Chatterjee

**Answer (d)**

**Q36.** \_\_\_\_\_ is a thyroid hormone which controls the balance of calcium in the body

- (a) Calcitonin (b) Thyroxine  
(c) Calmodulin (d) All of these

**Answer (d)**

**Q37.** The cell wall in plants is interrupted by narrow pores carrying fine strands of cytoplasm which interlink the contents of the cells. These strands are called-

- (a) Plasmahole (b) Microvilli  
(c) Plasmodesmata (d) Plasmalemma

**Answer (c)**

**Q38.** Who is the cricketer bestowed with an honorary commission in the Territorial Army?

- (a) Sachin Tendulkar (b) Kapil Dev  
(c) Virendr Sehwa (d) Harbhajan Singh

**Answer (b)**

**Q39.** The transport phenomenon occurs only in \_\_\_\_\_ state of a gas and is \_\_\_\_\_

- (a) non-equilibrium, irreversible (b) non-equilibrium, reversible  
(c) equilibrium, irreversible (d) equilibrium, reversible

**Answer (b)**

**Q40.** Which of the following compounds form nitrites with nitrous acid?

- (a) Primary amines (b) Secondary amines  
(c) Tertiary amines (d) All of these

**Answer (d)**

**Q41.** The number whose square is equal to the difference of the squares of 37 and 23 is :-

- (a) 45.09 (b) 28.98 (c) 47.09 (d) 28

**Answer (b)**

**Q42.** The average age of 8 men is increased by 4 years when one of them whose age is 30 years is replaced by a new man. What is the age of new man?

- (a) 55 yr (b) 62 yr (c) 42 yr (d) 69 yr

**Answer (b)**

**Q43.** A vessel, full of water, weighs 24 Kg. When the vessel is 1/4 full, it weighs 9 kg. Find the weight of empty vessel,

- (a) 4 kg (b) 5 kg (c) 8 kg (d) 3 kg

**Answer (a)**

- Q44.** If  $a-b = 4$  and  $ab = 45$ , find the value of  $a^3-b^3$ .  
 (a) 604 (b) 370 (c) 253 (d) 199  
**Answer (a)**
- Q45.** If  $a/(a+b)=15/21$ , what is  $(a+b) / (a-b)$  equal to?  
 (a) 13/9 (b) 23/11 (c) 14/5 (d) 21/9  
**Answer (d)**
- Q46.**  $\frac{(798+579)^2 - (798-579)^2}{(798 \times 579)}$  is equal to  
 (a) 2 (b) 6 (c) 4 (d) 8  
**Answer (c)**
- Q47.** A man's average monthly expenditure for the first 4 months of the year was ₹ 231.25. For the next 5 months, the average monthly expenditure was ₹ 22.75 more than what it was during the first 4 months. If the person spent ₹ 605 in all during the remaining three months of the year, find what percentage of his annual income of ₹ 3500 did he save in the year?  
 (a) 10% (b) 15% (c) 20% (d) 25%  
**Answer (c)**
- Q48.** The average age of students of a class is 15.8 years. The average age of boys in the class is 16.4 years and that of the girls is 15.4 years. The ratio of the number of boys to the number of girls in the class is:  
 (a) 1 : 2 (b) 2 : 3 (c) 3 : 4 (d) 3 : 5  
**Answer (b)**
- Q49.** 18 buckets of water fill a tank when the capacity of each bucket is 8 litres. How many buckets will be needed to fill the same tank, if the capacity of the bucket is 12 litres?  
 (a) 12 (b) 13.5 (c) 24 (d) cannot be determined due to insufficient data  
**Answer (a)**
- Q50.** Srinivasan invests two equal amounts in two banks giving 8% and 12% rate of interest respectively. At the end of year the interest earned is Rs 1500. Find the sum invested in each.  
 (a) 8500 (b) 15000 (c) 7500 (d) 17000  
**Answer (c)**
- Q51.** The simple interest accrued on a sum of money at the end of 4 years is 1/5th of its principal. What is the rate of interest per annum?  
 (a) 4% (b) 5% (c) 6% (d) Inadequate data  
**Answer (b)**
- Q52.** A sum of ₹ 2600 is lent out into two parts, one at 9% and another at 7%. If the total annual income is ₹ 206, find the money lent at 7%.  
 (a) ₹ 1400 (b) ₹ 900 (c) ₹ 1600 (d) ₹ 1200  
**Answer (a)**
- Q53.** In an election between two candidates, 70% of the voters cast their votes, out of which 2% of the votes were declared invalid. A candidate got 7203 votes which was 60% of the total valid votes. Find the total number of voters enrolled in that election.  
 (a) 18050 (b) 17500 (c) 1700 (d) 7203  
**Answer (b)**

- Q54.** If the price of kerosene be raised by 11%, find by how much percent a house holder must reduce his consumption of kerosene so as not to increase his expenditure?  
 (a) 11 (b) 9.9 (c) 11.09 (d) 8.25  
**Answer (b)**
- Q55.** 75 pupils from a school appeared for an examination and 80% of them passed. Another school entered 10 more pupils than the first school and 5 pupils less than the first school passed. The pass % of in the second school was:  
 (a) 75 (b) 84 (c) 72 (d) 64.7  
**Answer (d)**
- Q56.** Divide ₹ 80 in the proportion of 3:6:7.  
 (a) ₹10, ₹35, ₹40 (b) ₹15, ₹30, ₹35 (c) ₹15, ₹35, ₹30 (d) ₹10, ₹40, ₹35  
**Answer (b)**
- Q57.** Calculate the amount on ? 1875 for 2 years at 4% per annum, compounded yearly.  
 (a) ₹ 676 (b) ₹ 776 (c) ₹ 1778 (d) ₹ 2028  
**Answer (d)**
- Q58.** If x varies as y and x = 8 when y = 15, then the value of x when y = 10 is-  
 (a) 5 (b) 15/8 (c) 8/15 (d) 16/3  
**Answer (d)**
- Q59.** In a mixture of 60 litres, the ratio of milk and water is 2:1. What amount of water must be added to make the ratio of milk and water as 1:2?  
 (a) 42 Litres (b) 56 Litres (c) 60 Litres (d) 77 Litres  
**Answer (c)**
- Q60.** A sum of ₹ 10,000 is lent partly at 6% and the remaining at 10% p.a. If the yearly interest on the average is 9.2 %, the money lent at 10% is:  
 (a) ₹ 8000 (b) ₹ 8500 (c) ₹ 5000 (d) ₹ 2000  
**Answer (d)**

**Directions:** Choose the word which is unlike the other words in the group.

- Q61.** (a) Garo (b) Khasi (c) kangra (d) Jayantia  
**Answer (c)**
- Q62.** (a) Virgo (b) Pisces (c) Cancer (d) Orion  
**Answer (d)**
- Q63.** (a) Shoulder (b) Foot (c) Finger (d) Elbow  
**Answer (c)**
- Q64.** (a) Shoulder (b) Foot (c) Finger (d) Elbow  
**Answer (d)**
- Q65.** (a) Inn (b) Club (c) Motel (d) Hostel  
**Answer (b)**

**Directions:** The following questions consist of two words that have a certain relationship to each other, followed by four alternatives. Select the best alternative that has the same relationship as the original pair of words.

**Q66.** Liquor : Drink : : ?

- (a) Bread : Butter  
(c) Sniff : Inhale

- (b) Tea : Beverage  
(d) Water : Sip

**Answer (d)**

**Q67.** Evaporation : Cloud : : ?

- (a) Mountain : Snow  
(c) Pressure : Atmosphere

- (b) Book : Pages  
(d) Tension : Breakdown

**Answer (d)**

**Q68.** Barrel : Vial : : ?

- (a) Book : Pamphlet  
(c) Brochure : Complier

- (b) Book : Reader  
(d) Length : Height

**Answer (a)**

**Q69.** Cream : Cosmetics : : ?

- (a) Tiger : Forest  
(c) Magazine : Editor

- (b) Mountain : Valley  
(d) Teak : Wood

**Answer d()**

**Q70.** Carnivore : Herbivore : : ?

- (a) Flesh : Plant  
(c) Camel : Giraffe

- (b) Horse : Lion  
(d) Animal : Bird

**Answer (a)**

**Directions:** Three words in **bold** letters are given in each question, which have something in common among themselves. Out of the four given alternatives, choose the most appropriate description about these three words.

**Q71.** Hamlet : Macbeth : Faustus

- (a) They were Princes  
(c) They are characters from various dramas

- (b) They are plays by Shakespeare  
(d) They were romantic heroes

**Answer (c)**

**Q72.** Vesuvius : Etna : Kilimanjaro

- (a) These are sites of volcanoes  
(c) These are hills of Italy

- (b) These are island countries  
(d) These lie in polar region

**Answer (a)**

**Q73.** Knot : Watt : Fathom

- (a) The terms are used by sailors  
(c) The terms are connected with rope

- (b) The terms are used for installing electricity  
(d) They are units of measurement

**Answer (d)**

**Q74.** Barauni : Digboi : Ankleshwar

- (a) They are famous for oil fields  
(c) They are tourist places of South India

- (b) They are famous religious places  
(d) They are famous for handlooms

**Answer (a)**



**Q75.** Knight : Rook : Bishop  
 (a) These are missionaries (b) These are churchmen  
 (c) These are chessmen (d) These are ranks of military  
**Answer (c)**

**Q76.** Abhi Bhattacharya : Utpal Dutt : Satyajit Ray  
 (a) They are character actors (b) They are directors of Bengali movies  
 (c) They are famous poets and writers (d) These personalities belong to Bengal  
**Answer (d)**

**Q77.** Voodoo : Sorcery : Necromancy  
 (a) They are ancient arts found in sculptures (b) They are terms connected with black magic  
 (c) They are ancient scripts (d) They are means of communication of pre-historic age  
**Answer (b)**

**Q78.** Rourkela : Bokaro : Durgapur  
 (a) They are steel plants (b) They have coal mines  
 (c) They have atomic power plants (d) They are on the sea coast  
**Answer (a)**

**Q79.** Spinach : Fenugreek : Celery  
 (a) These are cactus plants (b) These are wild plants  
 (c) These are wild flowers (d) These are leafy vegetables  
**Answer (d)**

**Q80.** Yeats : Ghalib : Kabir  
 (a) They were social reformers (b) They were famous poets  
 (c) They were saints (d) They were yoga instructors  
**Answer (b)**

**Directions:** There are two sets of figures namely the problem figures containing five figures 1, 2, 3, 4, 5 and answer figures (a), (b), (c) and (d). You have to select one figure from the Answer figures which will continue the same series as given in the Problem figures.

**Q81.**

|     |     |     |     |     |   |
|-----|-----|-----|-----|-----|---|
| <   | ☆   | v = | >   | ^   | △ |
| (1) | (2) | (3) | (4) | (5) |   |

|     |     |     |     |
|-----|-----|-----|-----|
| ↑   | +   | ↑   | +   |
| v   | ^   | v   | ^   |
| (a) | (b) | (c) | (d) |

**Answer (a)**

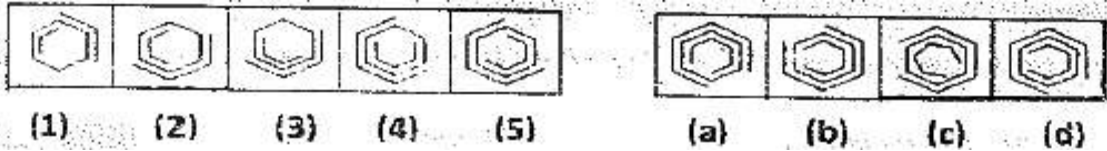
**Q82.**

|     |     |     |     |     |
|-----|-----|-----|-----|-----|
|     |     |     |     |     |
| (1) | (2) | (3) | (4) | (5) |

|     |     |     |     |
|-----|-----|-----|-----|
|     |     |     |     |
| (a) | (b) | (c) | (d) |

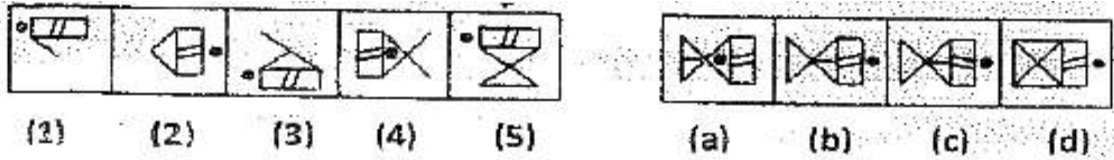
**Answer (d)**

Q83.



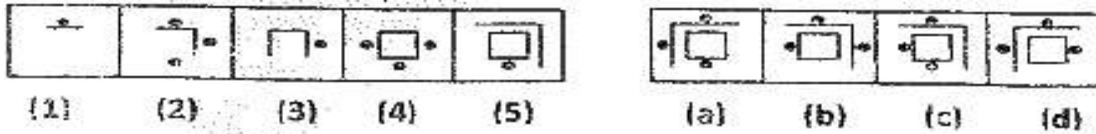
Answer (d)

Q84.



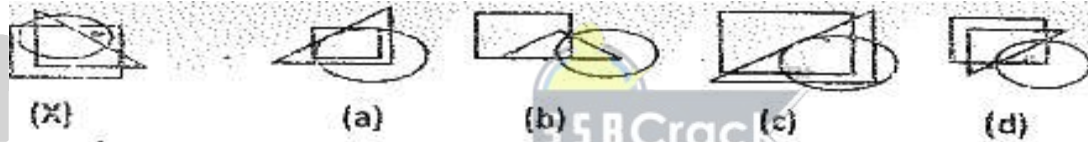
Answer (b)

Q85.



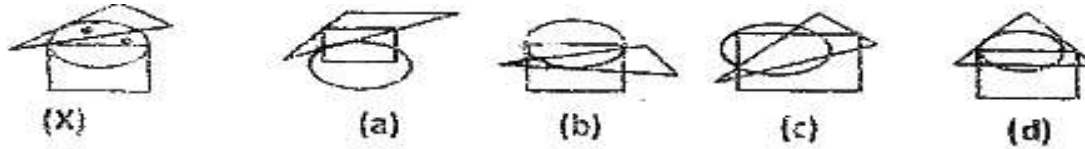
Answer (a)

Q86.



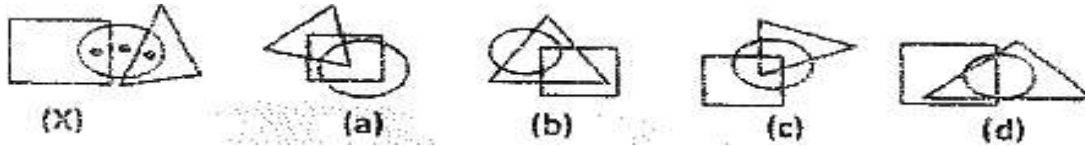
Answer (d)

Q87.



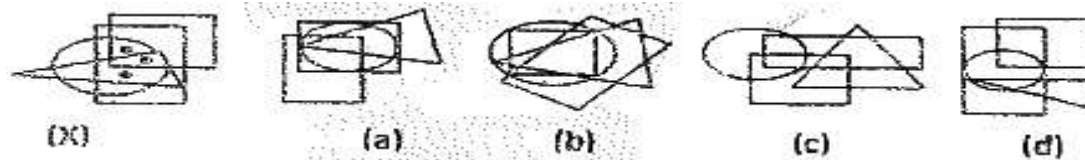
Answer (b)

Q88.



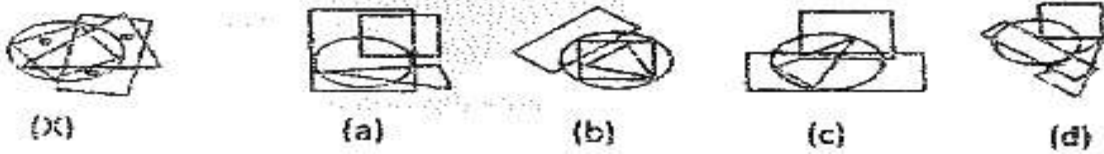
Answer (c)

Q89.



Answer (a)

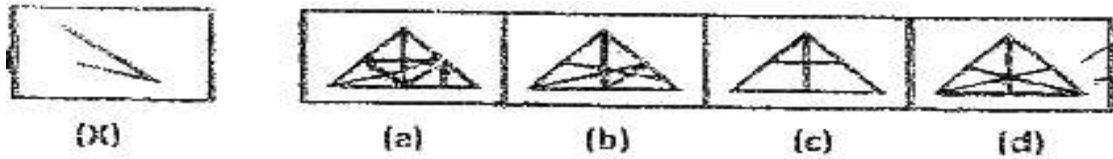
Q90.



Answer (d)

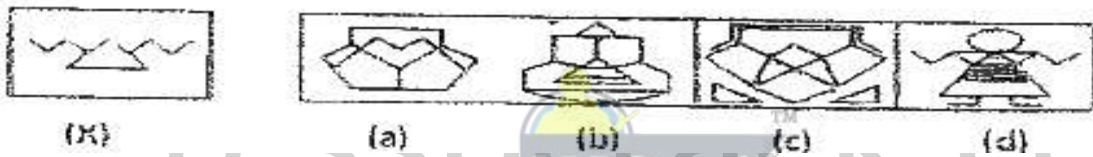
**Directions:** In this portion, a figure is given as question figure followed by four answer figures. The answer figure is embedded or hidden in one of the answer figures (a), (b), (c) and (d). Select the alternative that carries the correct figure which clearly shows the embedded portion of the question figure.

Q91.



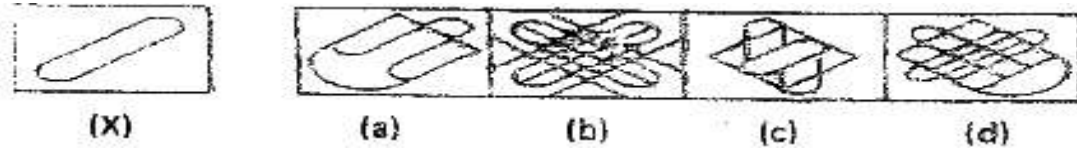
Answer (d)

Q92.



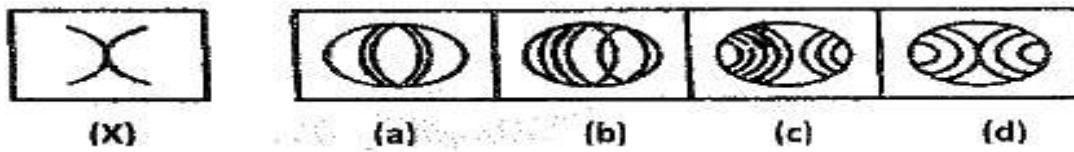
Answer (d)

Q93.



Answer (b)

Q94.



Answer (d)

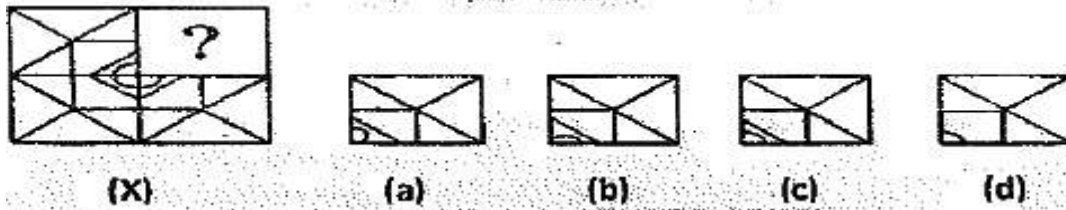
Q95.



Answer (d)

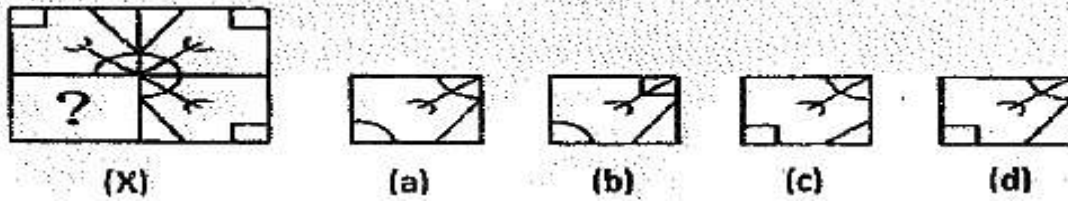
**Directions:** In each of the following questions, a part of the figure is missing. Find out from the given options (a), (b), (c) and (d), the right figure in the missing question figure(X).

Q96.



Answer (c)

Q97.



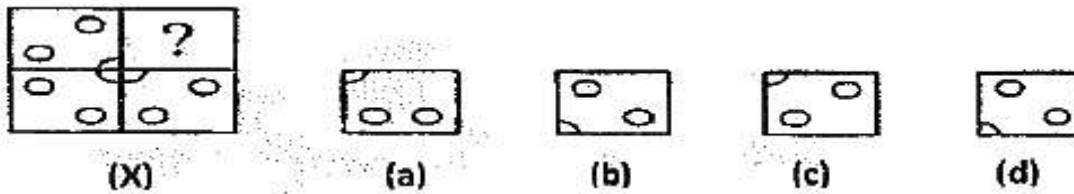
Answer (c)

Q98.



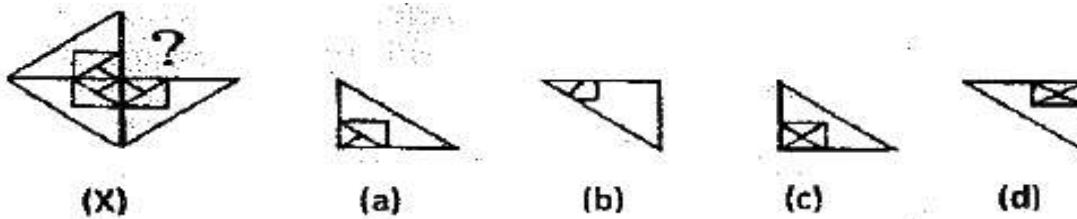
Answer (b)

Q99.



Answer (b)

Q100.



Answer (a)

## Hints and Solutions

### Q. No

41. Let the number =  $x$   
 $X^2 = (37)^2 - (23)^2 = (37 + 23)(37 - 23)$   
 $\Rightarrow x^2 = 60 \times 14$   
 $\Rightarrow x^2 = 840 \Rightarrow x = \sqrt{840} = 28.98$

|     |       |       |
|-----|-------|-------|
| 2   | 840   | 28.98 |
|     | 4     |       |
| 48  | 440   |       |
|     | 384   |       |
| 569 | 5600  |       |
|     | 5121  |       |
|     | 47800 |       |
|     | 46304 |       |
|     | 1586  |       |

42. Let the average age of 8 men be  $x$  yr  
 Sum of ages of 8 men =  $8x$  yr  
 Age of 7 men + 30 yr =  $8x$  yr  
 In the second case,  
 Average age of 8 men =  $(x + 4)$  yr  
 Total age of 8 men =  $8(x + 4)$   
 $\Rightarrow$  Age of 7 men + Age of new man  
 =  $8x + 32$   
 Subtract Eq. (i) from Eq. (ii), we get  
 7 men + Age of new man - 7 men - 30  
 =  $8x + 32 - 8x$   
 $\therefore$  Age of new man =  $32 + 30 = 62$  yr

43. Let weight of empty vessel =  $y$  kg  
 According to the question,  
 $x + y = 24$   
 $\frac{1}{4}(x) + y = 9$   
 $x + y = 24$   
 $x + 4y = 36$   
 Solving Eqs. (i) and (ii) we get  $y=4$  and  $x=20$   
 $\therefore$  Weight of empty vessel = **4 kg**

44. We have  $a - b = 4$  and  $ab = 45$   
 Then, value of  $a^3 - b^3 = (a - b)^3 + 3ab(a + b)$   
 =  $(4)^3 + 3(45)(4)$   
 =  $64 + 540 = 604$

45.  $\frac{a}{a+b} = \frac{15}{21} \Rightarrow 21a = 15a + 15b$   
 $\Rightarrow 6a = 15b$   
 $\Rightarrow a = \frac{15}{6}b$

$$\frac{a+B}{a-b} = \frac{6}{15b} = \frac{15b+6b}{15b-6b}$$

$$= \frac{21b}{9b} = \frac{21}{9}$$

46. Let  $798 = a$  and  $579 = b$   
 $\therefore \frac{(a+b)^2 - (a-b)^2}{a \times b}$

$$= \frac{a^2 + 2ab + b^2 - a^2 - b^2 + 2ab}{ab}$$

$$= \frac{4ab}{ab} = 4$$

47. A man's average monthly expenditure for the first four months of the year was Rs.231.25.  
 He spent  $231.25 \times 4 =$  Rs. 925  
 For the next five months, the average monthly expenditure was Rs. 22.75 more than what it was during the first four months.  
 He spends  $231.25 + 22.75$  for one month  
 In 5 months he spends  $(231.25 + 22.75) \times 5 = 1270$   
 If the person spent Rs.605 in all during the remaining three months of the year,  
 Total expense =  $925 + 1270 + 605 = 2800$   
 Saving =  $3500 - 2800 = 700$   
 % saving =  $700/3500 \times 100 = 20\%$

48. let  $x =$  number of girls and  $y =$  number of boys  
 sum of girls ages /  $x = 15.4$   
 sum of boys ages /  $y = 16.4$   
 The sum of the girls' ages is  $15.4x$ ,  
 and boys' sum is  $16.4y$   
 $(\text{sum of girls ages} + \text{sum of boys ages}) / (x+y) = 15.8$   
 $(15.4x + 16.4y) / (x+y) = 15.8$   
 $15.4x + 16.4y = 15.8(x+y)$   
 $15.4x + 16.4y = 15.8x + 15.8y$   
 $0.6y = 0.4x$   
 $0.6y/x = 0.4$   
 $y/x = 0.4/0.6 = y : x = 2/3$   
 Hence, ratio of boys : girls = **2:3**

49. Number of bucket =  $\frac{18 \times 8}{12} = 12$

50. Let  $P = ₹ 100$   
 In 1<sup>st</sup> case,  $SI = \frac{100 \times 8 \times 1}{100} = ₹ 8$   
 In 2<sup>nd</sup> case,  $SI = \frac{100 \times 12 \times 1}{100} = ₹ 12$

Total interest = 8 + 12 = ₹ 20

When interest ₹ 1500, then  $P = \frac{100}{20} \times 1500$   
 = ₹ 7500

$= \frac{80}{100} \times 75 = 60$

Now, total number of pupils = 75 + 10 = 85

Percentage pass =  $\frac{55}{85} \times 100 = \frac{1100}{17} = 64.7\%$

51. Let the Principal (P) be x  
 Then, Simple Interest (SI) =  $x/5$   
 Time (T) = 4 years  
 Rate of interest per annum (R)  
 $\frac{100 \times SI}{PT} = \frac{100 \times \frac{x}{5}}{x \times 4} = \frac{20}{4} = 5\%$

56. 3 : 6 : 7 ∴ 3 + 6 + 7 = 16  
 $\frac{3}{16} \times ₹ 80 = ₹ 15$   
 $\frac{6}{16} \times ₹ 80 = ₹ 30$   
 $\frac{7}{16} \times ₹ 80 = ₹ 35$

Hence answer is 15 : 30 : 35

52. Let  
 I P = ₹ x r = 9% t = 1 yr  
 II P = ₹ (2600 - x) r = 7% t = 1 yr

$SI = \frac{P \times r \times t}{100}$   
 $SI = \frac{x \times 9 \times 1}{100} = \frac{9x}{100}$   
 $SI = \frac{P \times r \times t}{100}$   
 $SI = \frac{(2600-x) \times 7 \times 1}{100}$

- According to the question,  
 $\frac{9x}{100} + \frac{(2600-x)7}{100} = 206$   
 $\Rightarrow 9x + 2600 + 7 - 7 = 206 \times 100$   
 $\Rightarrow 2x + 18200 = 20600$   
 $\Rightarrow x = \frac{2400}{2} = 1200$   
 ∴ Money lent at 7% = 2600 - 1200 = ₹ 1400

57.  $A = P \left(1 + \frac{r}{100}\right)^t = 1875 \left(1 + \frac{4}{100}\right)^2$   
 $= 1875 \times \frac{26}{25} \times \frac{26}{25} = 3 \times 676 = ₹ 2028$

58. ∴  $x \propto y$   
 When y = 15, then x = 8  
 When y = 10, then  $x = \frac{8}{15} \times 10 \Rightarrow x = \frac{16}{3}$

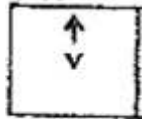
53. Let the total number of voter enrolled be x then,  
 $x \times \frac{70}{100} \times \frac{98}{100} \times \frac{60}{100} = 7203$   
 $x = \frac{7203 \times 100 \times 100 \times 100}{70 \times 98 \times 60}$   
 = 17500

59. Quantity of milk =  $\left(60 \times \frac{2}{3}\right)$  ltrs = 40 ltrs.  
 Quantity of water in it = (60 - 40) litres = 20 litres.  
 New ratio = 1 : 2  
 Let quantity of water to be added further be x litres.  
 Then, milk : water =  $\left(\frac{40}{20+x}\right)$ .  
 Now,  $\left(\frac{40}{20+x}\right) = \frac{1}{2}$   
 $\Rightarrow 20 + x = 80$   
 $\Rightarrow x = 60$ .  
 ∴ Quantity of water to be added = 60 litres.

54. This question can be solved by tricky method.  
 In such case the price of any commodity be  
 Raised by x% then  $\frac{x \times 100}{100+x}$  % reduced  
 Consumption of that commodity so as  
 Not to increase the expenditure  
 $\frac{11 \times 100}{100+11} = 9.9\%$

- Hence, 60L of water should be added to make the  
 ration of milk and water as 1 : 2.  
 81. The symbol (' < ') moves along the x-axis and  
 rotating along anti-clockwise direct. Another symbol is  
 rotating in clockwise direction in a way 45°, 90°, 45°,  
 90°, ..... And so on. And in every move, new symbol  
 replaces previous one.

55. Number of passed students = 80% of 75



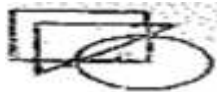
(a)

83. Number of sides inside incomplete symbol is increased by one and resultant symbol is shifted anti-clockwise by one place in every alternate figure. While in outer incomplete symbol increases in number of sides and shifting towards clockwise by one position taking place simultaneously and alternatively.



(d)

86. In, the question figure dot confined in the common region of circle and rectangle only. Hence, correct option is (d).



(d)

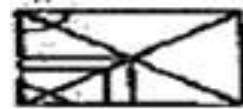
87. One dot is confined in the common region of triangle and circle and another one is inside circle only.

88. Three dots are in circle – rectangle, circle-triangle and circle respectively. Figure given in option (c) satisfies the same conditions of placement of the dots.



(c)

98. Right figure to fit in the question figure will be like this. Correct the figure given in option (b).



(b)

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# Air Force Common Admission Test

## Solved Paper AFCAT –2/2012

**Directions:** Read the following passage carefully and answer the questions given below.

### Passage

The development and widespread use of computer technology and the internet have transformed how we communicate, how business is conducted, how information is dispersed, and how society is organised. Prior to 1980, in-depth information about any one subject matter was attained through laborious research involving countless visits to libraries and via repeated interviews with persons of known reputation and reputable expertise. Now, a great deal of information is available at the click of a mouse button, all attainable from within the confines of one's own home or from the use of a computer in an office. Previous labour-intensive support Jobs. such as loading and unpacking of trucks', luggage handling at airports, and food manufacturing, once performed by a large middle-class workforce, are now performed routinely by robots which are monitored by computer-controlled systems. Our lives have been simplified but these benefits which have been ushered in by the technology revolution have had an adverse effect on the core of our interpersonal-relationships. Mere communication is no longer via postal mail or face-to-face contact, but rather via electronic email, personal internet message boards and by virtue of hand-held personal electronic assistants. Although computer technology has brought us to within a mouse-click of any sought-after piece of information, this technology boom has sequestered us to the confines' of our computer desks and homes and has removed us away from those traditional settings where personal and communication skills are developed

**Q1.** The author's attitude about the advent of computer technology can be best summarised as

- |                                   |                              |
|-----------------------------------|------------------------------|
| (a) Ordinary looking but talented | (b) Handsome and talented    |
| (c) Handsome and studious         | (d) Handsome and hardworking |

**Answer (b)**

**Q2.** The author would agree with which of the following statements?

- |  |   |
|--|---|
| (a) The advent of computer technology has decreased access to libraries  | (b) Because of advancements in robotics, labour-intensive jobs are more plentiful                   |
| (c) Although heralded as a great leap forward, the widespread use of computer technology is not without its setbacks | (c) Of all the benefits ushered in by the use the internet, electronic email is the most beneficial |

**Answer (c)**

**Q3.** The author's primary purpose in writing this passage is most likely which of the following?

- |  |   |
|--|---|
| (a) To downplay the need for the internet                | (b) To explain how robotics and the internet have had both a positive and negative influence on how we live |
| (c) To pave way for the next great technology revolution | (d) To showcase the wonders of recent technology advancements   |

**Answer (b)**



**Directions:** In each of the following, choose the word most similar in meaning to the word given in capitals.

- Q4. EMANCIPATE**  
(a) Gradual acceptance (b) Slow recovery  
(c) Abrupt ending (d) Strength  
**Answer (a)**
- Q5. OSTRACISE**  
(a) Take away (b) Cut off  
(c) Include (d) Expedite  
**Answer (b)**
- Q6. ALACRITY**  
(a) Hesitatingly (b) Eagerness  
(c) Unwillingly (d) Laziness  
**Answer (b)**

**Directions:** In each of the following, choose the word most nearly opposite in meaning to the word given in capitals

- Q7. PROFUSION**  
(a) Travesty (b) Validity  
(c) Scarcity (d) Agitated  
**Answer (c)**
- Q8. ESCHEW**  
(a) Vicious (b) Invite  
(c) Use (d) Emanate  
**Answer (b)**
- Q9. ABSTAN**  
(a) Refuse (b) Oppose  
(c) Run away (d) Permit  
**Answer (d)**
- Q10. INSOLENT**  
(a) Affable (b) Spotted  
(c) Foolish (d) Mature  
**Answer (a)**

**Directions:** In each of the following questions, find out which part has an error.

- Q11.** If you will (a)/follow my instructions (b)/ you will get (c)/ a suitable reward for this (d).  
**Answer (a)**
- Q12.** Harshad, along with (a) his brother (b) Ashwani and six senior officials (c) were arrested (d).  
**Answer (d)**

- Q13.** He received timely support (a)/ from his elder brother (b)/ who is working abroad (c)/ for the last six years. (d)  
**Answer (c)**
- Q14.** One of the drawbacks (a)/ of modern education are (b)/ that it does not (c) /encourage original thinking. (d)  
**Answer (b)**
- Q15.** Morphine and other (a)/ narcotic drugs are valuable (b)/ medically. if misused (c)/ it can cause irreparable damage. (d)  
**Answer (b)**

**Directions:** Pick up the most effective word from the given words to fill in the blanks to make the sentence meaningfully complete.

- Q16.** His book was marked by many \_\_\_\_\_ remarks which made us forget its main them.  
(a) irrelevant (b) objective  
(c) slanted (d) digressive  
**Answer (d)**
- Q17.** Some people have the capacity for learning foreign languages but they have no \_\_\_\_\_ to speak.  
(a) interest (b) ability  
(c) fondness (d) inclination  
**Answer (b)**
- Q18.** The dispute among the parties became so \_\_\_\_\_ that there was every likelihood of a free exchange of blows.  
(a) complicated (b) acrimonious  
(c) bellicose (d) aggressive  
**Answer (b)**
- Q19.** The judge decided to resign, when he was \_\_\_\_\_ for promotion to Chief Justice.  
(a) passed by (b) passed out  
(c) passed off (d) passed over  
**Answer (d)**
- Q20.** Questions will be answered by a \_\_\_\_\_ of experts.  
(a) staff (b) panel  
(c) bunch (d) band  
**Answer (b)**

**Directions:** Choose the most effective answers.

- Q21.** Who among the following had discovered the Brahmi Script in 1838?  
(a) Sir William Jones (b) Dr. Rajendra Lal Mitra  
(c) Dr. Bhaw Dagi (d) James Prinsep  
**Answer (d)**
- Q22.** Who was known as father of administration in medieval India?  
(a) Akbar (b) Shershah Suri  
(c) Humayun (d) Aurangzeb  
**Answer (b)**

- Q23.** Brahma Samaj was founded by  
(a) Raja Rammohan Roy (b) Jawaharlal Nehru  
(c) William Carey (d) Jonathan Duncan  
**Answer (a)**
- Q24.** Who discharges the function of the President when vacancy occur In the office of the President and Vice-President simultaneously, owing to removal, death, resignation or the incumbent or otherwise?  
(a) Chief Justice of High Court (b) Chief Justice of India  
(c) Speaker of Lok Sabha (d) Chairman of Rajya Sabha  
**Answer (b)**
- Q25.** With which sport is Lewis Hamilton associated?  
(a) Golf (b) Hockey  
(c) Billiards (d) F-1  
**Answer (d)**
- Q26.** From which country does the top seeded tennis player Rafael Nadal hail from?  
(a) France (b) Germany  
(c) Spain (d) Russia  
**Answer (c)**
- Q27.** Which Indian Boxer won the gold medal in 60 kg category in Asian games and became the youngest to win a boxing gold for India?  
(a) Vijendra Singh (b) Vikas Krishan  
(c) Ronjan Sodhi (d) Somdev  
**Answer (b)**
- Q28.** In 2010, Leander Paes in partnership with Cara Black won the mixed doubles title of  
(a) Australian Open Tennis Championship (b) Wimbledon Open Tennis Championship  
(c) Both of the above (d) None of the above  
**Answer (a)**
- Q29.** Term 'Prime Vertical' in astronomy is defined as-  
(a) The Vertical circle which passes through the east and west point of the horizon and is at right angles to the meridian of the place.  
(b) The Vertical circle which passes through the north and south pain of the horizon and is at right angles to the meridian of the place.  
(c) The Vertical circle which passes through the East and west paints of the horizon and is parallel to the meridian of the place  
(d) The Vertical circle which passes through the North and South points of the horizon and is parallel to the meridian of the place.  
**Answer (a)**
- Q30.** MNREGA Stands for  
(a) Mahatma Gandhi National Revenue Engagement Guarantee Association (b) Maharaja National Revenue Employment Guarantee Act  
(c) Mahanagar National Rural Employment Guarantee Act (d) Mahatma Gandhi National Rural Employment Guarantee Act  
**Answer (d)**

- Q31.** River Jhelum emerges from  
(a) Northern slopes of the Kailash range (b) Spring at Verinag  
(c) Rakas Lake (d) Amarkantak plateau  
**Answer (b)**
- Q32.** Haematite ores is the ore of which metal?  
(a) Iron (b) Aluminium  
(c) Zinc (d) Cobalt  
**Answer (a)**
- Q33.** Green revolution relates to which of the following?  
(a) Self-dependence in food grains production (b) Self-dependence in milk production  
(c) Self-dependence in petroleum crude oil production (d) None of the above  
**Answer (a)**
- Q34.** Nuclear Submarine Akula has been handed over to India recently by  
(a) France (b) Germany  
(c) USA (d) Russia  
**Answer (d)**
- Q35.** Who is the author of book 'The Fragrance of Forgotten Years'?  
(a) David Omand (b) Bikees Latif  
(c) Pranab Bardhan (d) Jagat S Mehta  
**Answer (b)**
- Q36.** Vertebrates have two endocrine glands associated with the brain, namely  
(a) thyroid, thymus (b) pituitary, pancreas  
(c) pituitary, pineal (d) pancreas, pineal  
**Answer (c)**
- Q37.** The layer common to two adjacent plant cells called middle lamella is composed of  
(a) calcium phosphate (b) calcium sulphate  
(c) calcium carbonate (d) calcium pectate  
**Answer (d)**
- Q38.** With the increase of the effective nuclear charge, the size of the atom or ion  
(a) increases (b) decreases  
(c) remains the same, since it has no bearing on size (d) it will depend on period to period and group to group  
**Answer (c)**
- Q39.** On which of the following statements, is the kinetic theory of matter base?  
(a) Matter is made up of molecules (b) Molecules are in rapid motion  
(c) Molecules experience forces of attraction between one another (d) All of the above  
**Answer (d)**

- Q40.** When heated with chloroform, secondary amines and tertiary amines  
(a) gives isocyanides (b) gives cyanides  
(c) do not give isocyanides (d) (a) and (b)  
**Answer (c)**
- Q41.** The number whose square is equal to the difference of the squares of 40 and 32, is  
(a) 45.09 (b) 24  
(c) 25 (d) 28  
**Answer (b)**
- Q42.** 15 buckets of water fill a tank when the capacity of each bucket is 7L. How many buckets will be needed to fill the same tank, if the capacity of the bucket is 5L?  
(a) 12 (b) 24  
(c) 21 (d) 30  
**Answer (c)**
- Q43.** A vessel, full of water, weighs 27.5 kg, when the vessel is  $\frac{1}{4}$  full, it weighs 12.26 kg. Find the weight of empty vessel.  
(a) 7.18 kg (b) 6.54 kg  
(c) 2.75 kg (d) 2.5 kg  
**Answer (a)**
- Q44.** If  $a+b = 10$  and  $ab = 21$ , find the value of  $a^3+b^3$ .  
(a) 370 (b) 210  
(c) 730 (d) 598  
**Answer (a)**
- Q45.** If  $a/(a+b)=17/23$ , what is  $(a+b)/(a-b)$  equal to?  
(a)  $13/7$  (b)  $23/11$   
(c)  $14/5$  (d)  $25/9$   
**Answer (b)**
- Q46.**  $\frac{(598 + 479)^2 - (598 - 479)^2}{(598 \times 479)}$  is equal to  
(a) 2 (b) 6  
(c) 4 (d) 8  
**Answer (c)**
- Q47.** A man's average monthly expenditure for the first four months of the year was ₹ 225.25. For the next five months, the average monthly expenditure was ₹ 20.75 more than what it was during the first four months. If the person spent ₹ 700 in all during the remaining three months of the year find what percentage of his annual income of ₹ 3500 he saved in the year?  
(a) 10 (b) 15  
(c) 19.11 (d) 25  
**Answer (c)**
- Q48.** The ratio of the present age of P and Q is 2.3. The ration of their age after 18 yr will be 4.5. What is the present age of Q?  
(a) 26 yr (b) 25 yr  
(c) 24 yr (d) 27 yr  
**Answer (d)**

- Q49.** The mean temperature of Monday to Wednesday was  $37^{\circ}\text{C}$  and of Tuesday to Thursday was  $34^{\circ}\text{C}$ . If the temperature on Thursday was  $\frac{4}{5}$  that of Monday, the temperature on Thursday was.
- (a)  $36.5^{\circ}\text{C}$  (b)  $36^{\circ}\text{C}$   
(c)  $35.5^{\circ}\text{C}$  (d)  $34^{\circ}\text{C}$   
**Answer (b)**
- Q50.** Srinivasan invests two equal amounts in two banks giving 10% and 12% rate of interest respectively. At the end of year, the interest earned is ₹1650. Find the sum invested in each.
- (a) ₹ 8500 (b) ₹15000  
(c) ₹7500 (d) ₹17000  
**Answer (c)**
- Q51.** The simple interest on a sum of money is  $\frac{1}{9}$  of the sum. The number of years is numerically equal to the rate per cent per annum. The rate per cent per annum is
- (a) 3.33 (b) 5  
(c) 6.66 (d) 10  
**Answer (a)**
- Q52.** A sum of ₹ 10000 is lent partly at 8% and the remaining at 10% per annum, if the interest on the average is 9.2%, the money lent at 10% is
- (a ₹ 6000 (b) ₹ 5500  
(c) ₹ 5000 (d) ₹ 4500  
**Answer (a)**
- Q53.** In an election between two candidates, 60% of the voters cast their votes, out of which 4% of the votes were declared invalid. A candidate got 7344 votes which were 75% of the total valid votes. Find the total number of votes enrolled in that election.
- (a) 1700 (b) 17590  
(c) 17000 (d) 7344  
**Answer (c)**
- Q54.** If the price of kerosene be raised by 9%, find how much per cent a house-holder must reduce his consumption of kerosene so that, not to increase his expenditure?
- (a) 8 (b) 8.25  
(c) 9 (d) 9.25  
**Answer (b)**
- Q55.** 65 pupils from a school entered for an examination and 80% of them passed. Another school entered 10 more pupils than the first school and four more pupils passed. The percentage of pass in the second school was-
- (a) 75 (b) 84  
(c) 72 (d) 74.6  
**Answer (d)**
- Q56.** A jar contains black and white marbles. If there are ten marbles in the jar, then which of the following could not be the ratio of black to white marbles?
- (a) 9 : 1 (b) 7 : 3  
(c) 1 : 10 (d) 1 : 4  
**Answer (c)**

- Q57.** A sum of money is to be distributed among P, Q and R in the ratio of 6 : 19 : 7. If R gives ₹ 200 from his share to Q, the ratio of P, Q and R becomes 3 : 10 : 3, what is the total sum?  
(a) ₹ 3200 (b) ₹ 12800  
(c) ₹ 6400 (d) Data inadequate  
**Answer (c)**

- Q58.** In what ratio should tea worth ₹ 10 per kg be mixed with tea worth ₹ 14 per kg, so that the average price of the mixture may be ₹ 11 per kg ?  
(a) 2 : 1 (b) 3 : 1  
(c) 3 : 2 (d) 4 : 3  
**Answer (b)**

- Q59.** Calculate the amount of ₹ 1250 for 2 yr at 4% per annum, compounded yearly.  
(a) ₹ 676 (b) ₹ 1352  
(c) ₹ 1778 (d) ₹ 255  
**Answer (b)**

- Q60.** A sum of ₹ 3200 is lent out into two parts, one at 6% and another at 4%. If the total annual income is ₹ 176, find the money lent at 6%.  
(a) ₹ 2400 (b) ₹ 800  
(c) ₹ 1600 (d) ₹ 3200  
**Answer (a)**

**Directions:** In the following questions, the words given bear a certain relationship. Find out from the choices the words with the same relationship.

- Q61.** Surgeon : Scalpel :: ?  
(a) Musician : Instrument (b) Sculptor : Chisel  
(c) Carpenter : Cabinet (d) Baker : Oven  
**Answer (b)**
- Q62.** Creche : Infants :: ?  
(a) School : Pupils (b) Deck : Sailors  
(c) Cottage : Guests (d) Aircraft : Crew  
**Answer (c)**
- Q63.** Pesticide : Plant :: ?  
(a) Injection : Disease (b) Teacher : Student  
(c) Medicine : Cure (d) Vaccination : Body  
**Answer (d)**
- Q64.** Stare : Glance :: ?  
(a) Gulp : Sip (b) Story : tell  
(c) Hunt : Stalk (d) Step : Walk  
**Answer (a)**
- Q65.** Fish : Aquarium :: ?  
(a) Student : Hostel (b) Bird : Forest  
(c) Goods : Consignment (d) Bee : Apiary  
**Answer (d)**

**Q66.** Ecstasy : Pleasure :: ?  
(a) Hatred : Affection  
(b) Rage : Anger  
(c) Joy : Grief  
(d) Mumble : Speak  
**Answer (b)**

**Q67.** Necromancy: Ghosts :: ?  
(a) Romance : Stories  
(b) Magic : Amulets  
(c) Joy : Grief  
(d) Mumble : Speak  
**Answer (c)**

**Q68.** Coin : Mint :: ?  
(a) Grain : Field  
(b) Hay : Stable  
(c) Wine : Brewery  
(d) Book : Publisher  
**Answer (d)**

**Q69.** Oak : Coniferous :: ?  
(a) Chimpanzee : Ape  
(b) Animals : Carnivore  
(c) Fish : Sea  
(d) Tree : Grove  
**Answer (a)**

**Q70.** Onam : Kerala :: ?  
(a) Christmas : Christians  
(b) Bhangra : Punjab  
(c) Kathak : Uttar Pradesh  
(d) Bihu : Asom  
**Answer (d)**

**Directions:** In each of the following questions, a group of three interrelated words is given. Choose a word from the given alternatives that belongs to the same group.

**Q71.** Calendar : Dates :: Dictionary : ?  
(a) Vocabulary  
(b) Language  
(c) Words  
(d) Book  
**Answer (c)**

**Q72.** Heed : Neglect :: Pacify : ?  
(a) Incite  
(b) Allay  
(c) War  
(d) Victory  
**Answer (a)**

**Q73.** Malaria : Disease :: Sword : ?  
(a) Wound  
(b) Spear  
(c) Weapon  
(d) Rifle  
**Answer (c)**

**Q74.** Eye : Wink :: Heart : ?  
(a) Move  
(b) Throb  
(c) Pump  
(d) Quiver  
**Answer (b)**

**Q75.** Earth : Sun :: Moon : ?  
(a) Orbit  
(b) Sky  
(c) Star  
(d) Earth  
**Answer (d)**



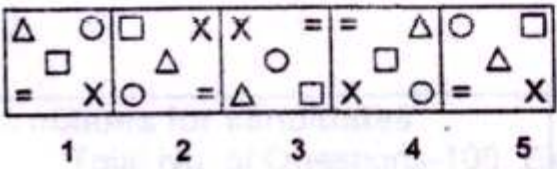
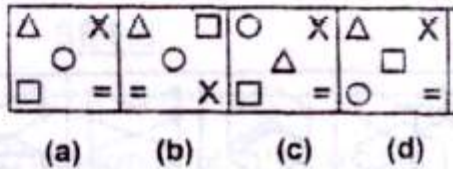
**Directions:** Choose the word which is least like the other words in the group.

- Q76. (a) Rose (b) Lotus (c) Marigold (d) Tulip  
**Answer (d)**
- Q77. (a) Book (b) Sharpener (c) Pencil (d) Paper  
**Answer (a)**
- Q78. (a) Copper (b) Tin (c) Brass (d) Zinc  
**Answer (d)**
- Q79. (a) Kiwi (b) Eagle (c) Emu (d) Penguin  
**Answer (b)**
- Q80. (a) Raniganj (b) Jharia (c) Bokaro (d) Baroda  
**Answer (d)**

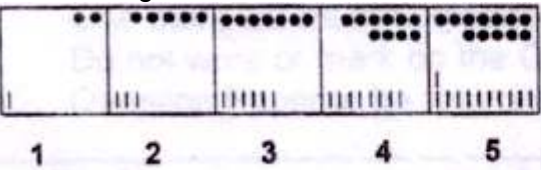
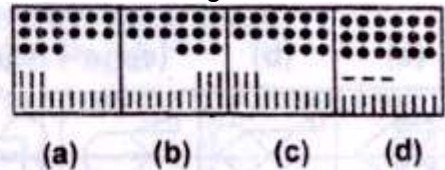
**Directions:** There are two sets of figures namely the problem figures and answer figures (a), (b), (c) and (d). Select one figure from the answer figures which will continue the same series as given in the problem figures.

Q81. Problem Figures:  Answer Figures: 

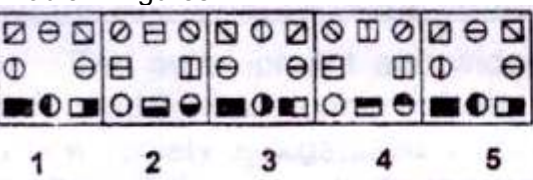
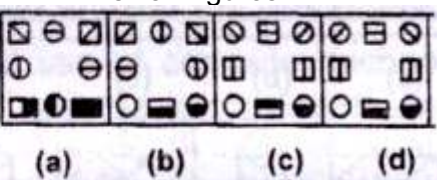
**Answer (a)**

Q82. Problem Figures:  Answer Figures: 

**Answer (a)**

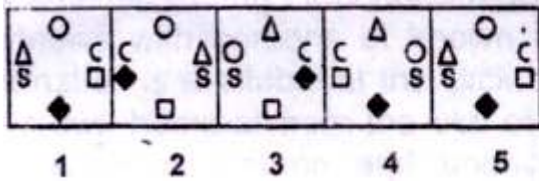
Q83. Problem Figures:  Answer Figures: 

**Answer (c)**

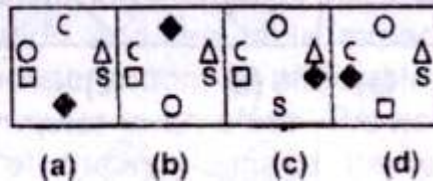
Q84. Problem Figures:  Answer Figures: 

**Answer (d)**

Q85. Problem Figures



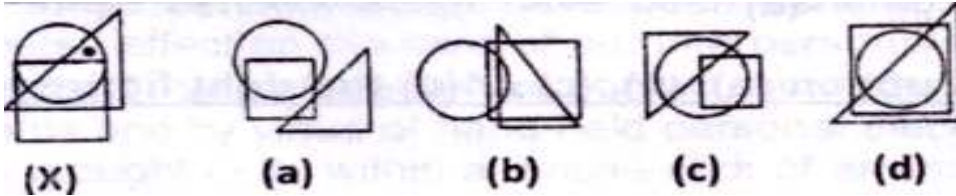
Answer Figures



Answer (d)

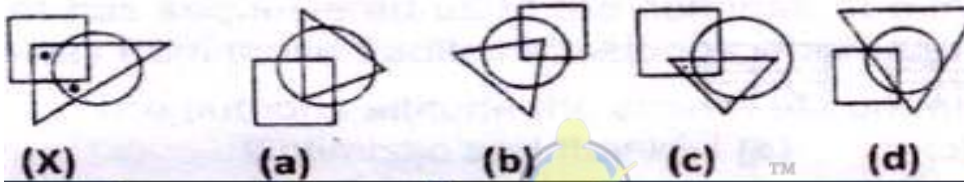
**Directions:** From amongst the figures marked namely (a), (b), (c) and (d), select the figure which satisfies the same conditions of placement of the dot as in figure (X).

Q86.



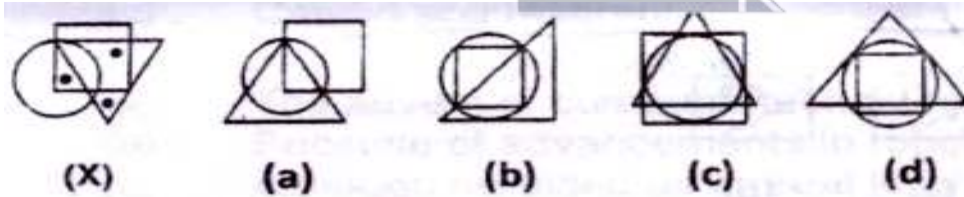
Answer (c)

Q87.



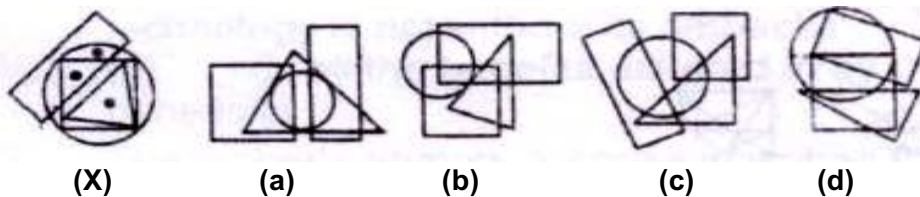
Answer (c)

Q88.



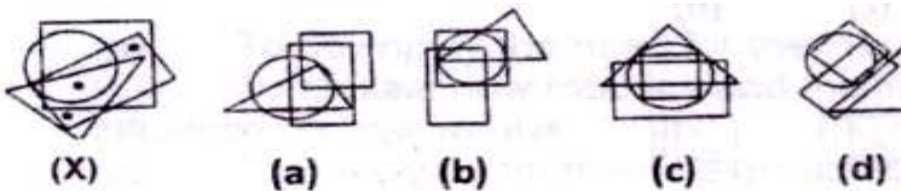
Answer (c)

Q89.



Answer (d)

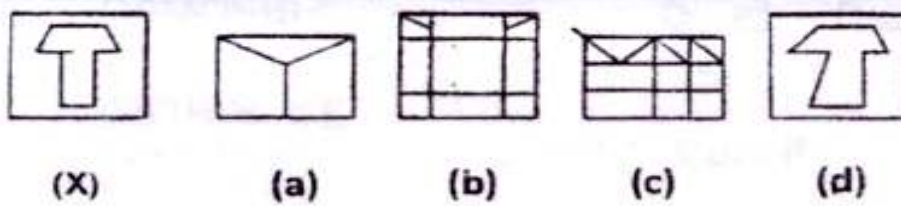
Q90.



Answer (a)

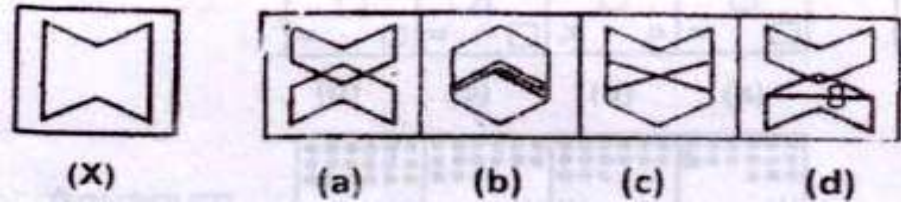
**Directions:** The original figure is embedded or hidden in one of the answer figure is (a), (b), (c) and (d). Select the alternative that carries the correct figure which clearly shows the embedded portion of the original figures.

Q91.



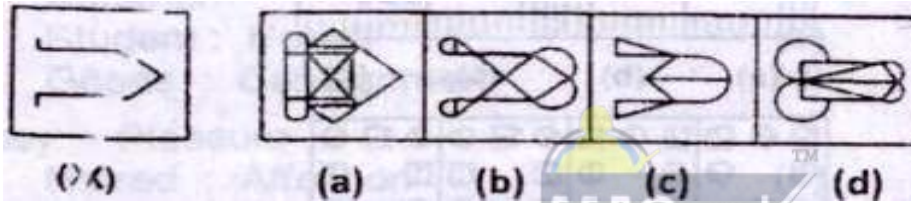
Answer (d)

Q92.



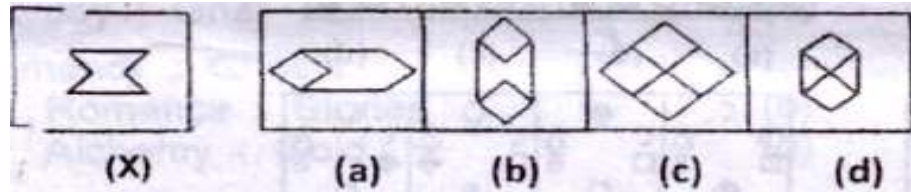
Answer (c)

Q93.



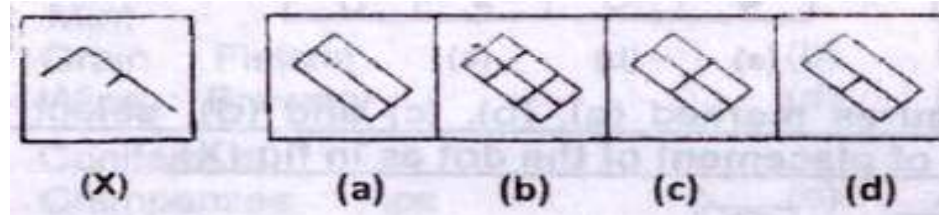
Answer (b)

Q94.



Answer (b)

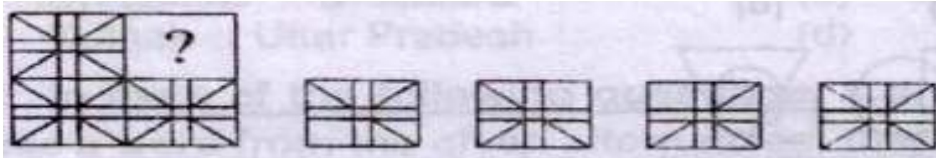
Q95.



Answer (c)

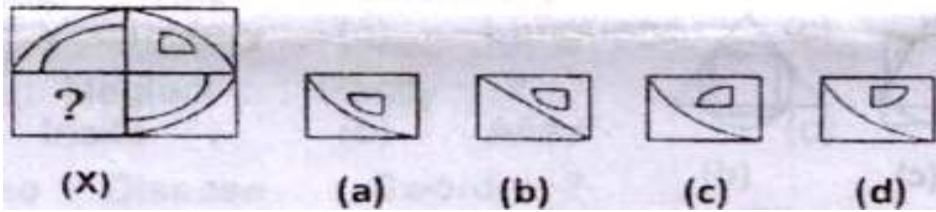
**Directions:** Find out the given option (a), (b), (c) and (d) the right figure to fit in the missing figure.

Q96.



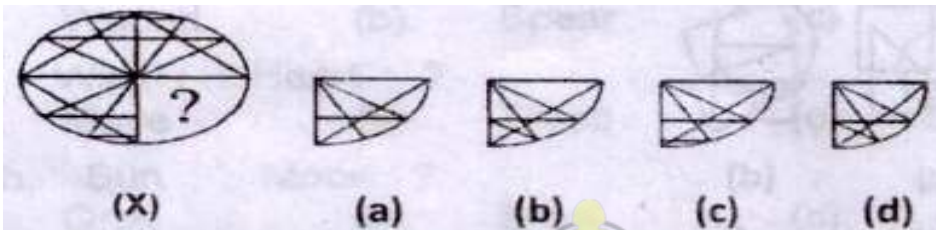
Answer (d)

Q97.



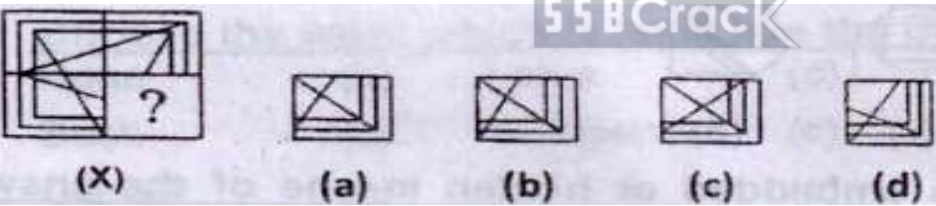
Answer (a)

Q98.



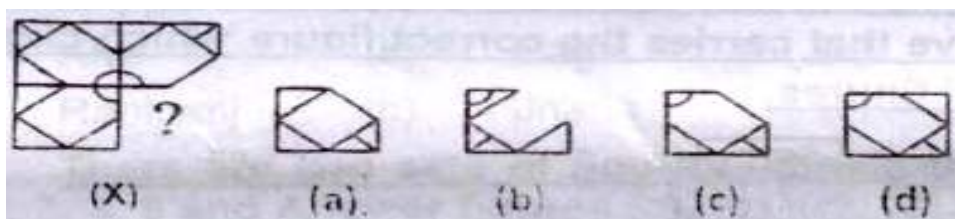
Answer (c)

Q99.



Answer (d)

Q100.



Answer (c)

## Hints and Solutions

### Q. No

**22.** Shershah Suri was first medieval king who organized his administration-especially civil and land administration. Akbar was by and far influenced by his administration.

**23.** Brahma Samaj was founded by Rammohan Roy in 1828 in Bengal. It opposed sati system.

**24.** When the offices of President and Vice-President are vacant simultaneously Chief Justice of India shall discharge the function of the President.

**26.** Top seeded tennis player Rafael Nadal hails from Spain.

**30.** MNREGA stands for Mahatma Gandhi National Rural Employment Guarantee Act. This act was implemented in 2006.

**32.** Haematite is an ore of iron. It contains 60-70% of pure. It is reddish in colour and is known as red ore.

**33.** Green Revolution is associated with agriculture. It was started in 1960s to make the country self-dependent in food grains production.

**34.** Akula is a Russian nuclear submarine prepared for India

**35.** The book 'The Fragrance of Forgotten Years' is written by Bilkees Latif.

**41.**  $(40)^2 - (32)^2 = (40 + 32)(40 - 32) = 72 \times 8 = 576$   
 $x^2 = 576$   
 $x = 24$   
 $\therefore$  Number = **24**

**42.** Number of buckets =  $\frac{15 \times 7}{5} = 21$

**44.** We have  $a + b = 10$  and  $ab = 21$   
 $A^3 + b^3 = (a + b)^3 - 3ab(a + b)$   
 $= 1000 - 630 = 370$

**45.**  $a = 17$   
 $a + b = 23$ , so  $b$  must therefore be 6.  
 Now plug the numbers in to the new equation:  
 $(a + b)$  is the same as  $(17 + 6)$

$(a - b)$  is the same as  $(17 - 6)$   
 Therefore the answer is  $\frac{23}{11}$

**46.** Let  $598 = a$  and  $479 = b \Rightarrow \frac{(a+b)^2 - (a-b)^2}{ab} = \frac{4ab}{ab} = 4$

**47.** Total expenditure four months =  $225.25 \times 4 = 901$   
 Total expenditure five months =  $(225.25 + 20.75) \times 5 = 246 \times 5 = ₹ 1230$   
 Total expenditure in 12 months =  $901 + 1230 + 700 = ₹ 2831$

Saving =  $3500 - 2831 = ₹ 2831$   
 Percentage saving =  $\frac{669}{3500} \times 100 = 19.11\%$

**48.** Let present age of  $P = 2x$  yr  
 and present age of  $Q = 3x$  yr  
 $\frac{2x+18}{3x+18} = \frac{4}{5}$   
 $12x + 72 = 10x + 90$   
 $2x = 18$   
 $x = 9$

$\therefore$  Present age of  $Q = 3 \times 9 = 27$ yr

**49.**  $M + T + W = (37 \times 3)^0 = 111^0\text{C} \dots\dots(1)$   
 $T + W + Th = (34 \times 3)^0 = 102^0\text{C}$   
 $\Rightarrow T + W + \frac{4}{5}M = 102^0\text{C} \dots\dots\dots(2)$   
 (1) - (2) gives

$$\frac{1}{5} \text{th of temperature on Monday} \\ = 111^{\circ} - 102^{\circ} = 9^{\circ}\text{C} \\ \Rightarrow \text{Temperature on Monday} = 45^{\circ}\text{C} \\ \therefore \text{Temperature on Thursday} = \frac{4}{5} \times 45^{\circ} = 36^{\circ}$$

50. Let sum invested = ₹ x

$$\frac{x \times 10 \times 1}{100} + \frac{x \times 12 \times 1}{100} = 1650 \\ 22x = 1650 \times 100 \\ x = \frac{1650 \times 100}{22} = \text{₹ } 7500$$

51.  $SI = \frac{p}{q}, r = t$

$$SI = \frac{p \times r \times t}{100}$$

$$\frac{p}{q} = \frac{p \times r \times t}{100}$$

$$r^2 = \frac{100}{9} \\ r = \frac{10}{3} = 3.33\%$$

52. Let  $P_1 = x, P_2 = (10000 - x),$   
 $r_1 = 8\%, r_2 = 10\%$   
 According to the question,

$$\frac{x \times 8 \times 1}{100} + \frac{(10000 - x) \times 10 \times 1}{100} = 920 \\ 8x - 10x + 10000 = 920 \times 100 \\ 2x = 8000 \\ x = \text{₹ } 4000 \\ \text{Money lent at } 10\% = 10000 - 4000 = \text{₹ } 6000$$

54. Reduce the consumption =  $\left(\frac{r}{100+r} \times 100\right)$

$$\frac{9}{100+9} \times 100 = \frac{900}{109} = 825\%$$

55. Number of passed pupils =  $\frac{80}{100} \times 65 = 52$

65 + 10 = 75, 52 + 4 = 56 out of 75 passed 56 pupils

$$\text{Percentage passed} = \frac{56}{75} \times 100 = \frac{224}{3} = 74.6\%$$

57.

|      |        |        |
|------|--------|--------|
| P    | Q      | R      |
| 6    | : 19   | : 7    |
| 1200 | : 3800 | : 1400 |

R gives 200 to Q

$$1200 : 4000 : 1200 \\ 3 \quad 10 \quad 3$$

∴ Total amount of P, Q and R  
 = 1200 + 3800 + 1400 = ₹ 6000

59.  $A = P \left(1 + \frac{r}{100}\right)^t = 1250 \left(1 + \frac{4}{100}\right)^2$   
 $= 1250 \times \frac{26}{25} \times \frac{26}{25} = 2 \times 676 = \text{₹ } 1352$

60.  $P = x \quad P = (3200 - x)$   
 $r = 6\% \quad r = 4\%$   
 According to the question,

$$\frac{x \times 6 \times 1}{100} + \frac{(3200 - x) \times 4 \times 1}{100} = 176 \\ 6x - 4x + 12800 = 17600 \\ 2x = 4800 \\ x = \text{₹ } 2400$$

Hence, the money lent at 6% = ₹ 2400

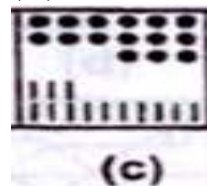
81. In every next image, symbol is rotated by  $180^{\circ}$  and position changes in the sequence of  $90^{\circ}, 45^{\circ}, 45^{\circ}$ .

82. In the given question, symbols are changing their position in this pattern-



83. Arrangement of lines is left hand side arrangement and it is increasing in the pattern of 2, 3, 2, 3, 2, 3, .....

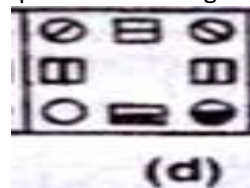
While arrangement of points is along right hand side arrangement and it is increasing in the pattern of 3, 2, 3, 2, 3, 2, .....



84. Symbols in the 1<sup>st</sup> row changes according to the following.



So, required answer figure will be as under-



85. In the given question, symbols are changing their position in this pattern-

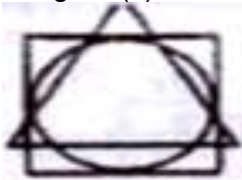


(d)

86. In figure (X) dot (.) is inside strangle and circle. In the given figures, only figure (c) can place dot (.) inside triangle and circle.

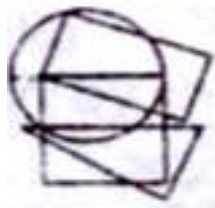
87. One dot (.) is inside square and triangle while another dot (.) is inside triangle and circle. The required figure (c) can only contain these two points at required position.

88. First dot (.) is inside square and circle. Second dot (.) is inside square and triangle while third dot (.) is inside triangle only. The required answer is figure (c).

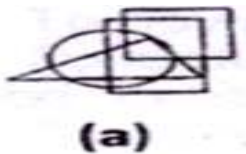


89. First dot (.) is inside rectangle and circle. Second dot (.) is inside square, rectangle and circle. While third dot (.) is inside triangle, square and circle.

The required answer is figure (d).

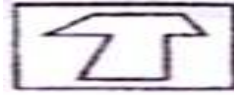


90. First dot (.) is inside square and rectangle. Second dot (.) is inside square, rectangle, circle and triangle. Third dot (.) is inside rectangle and triangle.



(a)

91. Option (d) figure is same as figure (X).



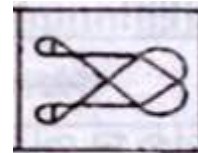
(d)

92. Figure (X) is embedded in the figure given in option (c).



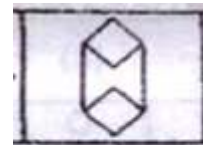
(c)

93. Figure (X) is embedded in the figure given in option (b).



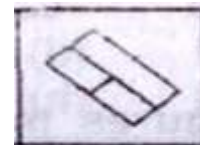
(b)

94. Figure (X) is embedded in the figure given in option (b).



(b)

95. Figure (X) is embedded in the figure given in option (d).



(d)

# Air Force Common Admission Test

## Solved Paper AFCAT –I/2012

**Directions:** Read the following passage carefully and answer the questions given below.

### Passage

Pablo Picasso showed his truly exceptional talent from a very young age. His first word was lapiz (Spanish for pencil) and he learnt to draw before he could talk. He was the only son in the family and very good-looking, so he was thoroughly spoilt. He hated school and often refused to go unless his doting parents allowed him to take one of his father's pet pigeons with him/

Apart from pigeons, his great love was art and when in 1891 his father, who was an amateur artist, got a job as a drawing teacher at a college, Pablo went with him to the college. He often watched his father paint and sometimes was allowed to help. One evening his father was painting a picture of their pigeons when he had to leave the room. He returned to find that Pablo had completed the picture, and it was so amazingly beautiful and lifelike that he gave his son his own palette and brushes and never painted again. Pablo was just thirteen.

**Q1.** As a boy Pablo Picasso was  
(a) Ordinary looking but talented  
(c) Handsome and studious

(b) Handsome and talented  
(d) Handsome and hardworking

**Answer (b)**

**Q2.** He was spoilt mostly because he was  
(a) A smart boy  
(c) The only son in the family

(b) Loved by one and all  
(c) Always surrounded by notorious boys.

**Answer (c)**

**Q3.** Picasso went to school only when  
(a) His friends accompanied him  
(c) He was allowed to paint at school

(b) His father went with him  
(d) He was allowed to carry a pet with him

**Answer (d)**

**Q4.** When his father painted in the college, Pablo  
(a) Occasionally helped him  
(c) Always helped him

(b) Rarely helped him  
(d) Invariably helped him

**Answer (a)**

**Q5.** Pablo's father gave up painting because he  
(a) Did not like the job  
(c) was impressed by his son's talent

(b) Retired from the college  
(d) Lost interest in painting

**Answer (c)**

**Directions:** In each of the following questions, find out which part of the sentence has an error.

**Q6.** The boss was irritated (a)/ by him neglecting (b)/ the duties and (c) not listening to his advice (d).

**Answer (b)**



- Q7. Each of the three (a)/ beggars were (b)/ asking for more (c)/ food to eat (d).  
**Answer (b)**
- Q8. My brother sent (a)/two pairs (b)/ of shoe (c)/ from America (d).  
**Answer (c)**
- Q9. The young boy said (a)/that he (b)/neither liked me (c)/nor my wife (d).  
**Answer (c)**
- Q10. He was (a) /congratulated for (b)/his success in (c)/ the 100 m race (d).  
**Answer (b)**

**Direction:** Pick up the most effective word from the given words to fill in the blanks to make the sentence meaningfully complete.

- Q11. Sanjay was \_\_\_\_\_ with divine vision to see the great battle.  
(a) Demure (b) Authorized  
(c) Endowed (d) Uttered  
**Answer (c)**
- Q12. There was so much \_\_\_\_\_ material in the essay that it was difficult to get the author's message.  
(a) Variegated (b) Superficial  
(c) Extraneous (d) Exemplary  
**Answer (c)**
- Q13. The world is so constructed that if you wish to enjoy its pleasures, you must also \_\_\_\_\_ its pains.  
(a) Deny (b) Neglect  
(c) Ignore (d) Endure  
**Answer (d)**
- Q14. Indian press did not give \_\_\_\_\_ to the British publicity.  
(a) Credence (b) Scion  
(c) Augury (d) Opportunity  
**Answer (a)**
- Q15. Travellers' \_\_\_\_\_ their reservations well in advance if they want to travel during the Diwali holidays.  
(a) ) has better to get (b) had better get  
(c) had better get (d) had better got  
**Answer (b)**

**Directions:** In each of the following choose the word most similar in meaning to the word given in capitals.

- Q16. EMANCIPATE  
(a) Set free (b) Exist  
(c) Correct morally (d) Restrain  
**Answer (a)**
- Q17. DECEIT  
(a) Simplicity (b) Gentility  
(c) Sincerity (d) Dishonesty  
**Answer (d)**

**Q18. ADMONITION**

- (a) Thrash (b) Hindrance  
(c) Warning (d) Exhort

**Answer ( c )**

**Direction:** In each of the following choose the word most nearly opposite in meaning to the word given in capitals.

**Q19. VOCIFEROUS**

- (a) Laudable (b) Quiet  
(c) Dangerous (d) Powerful

**Answer ( b )**

**Q20. IMPLICATE**

- (a) Involve (b) Exonerate  
(c) Corrupt (d) Accuse

**Answer ( b )**

**Directions:** Choose the correct answer

**Q21.** The person who is regarded as the greatest law giver of ancient India is

- (a) Panini (b) Kautilya  
(c) Manu (d) Patanjali

**Answer ( c )**

**Q22. The immortal fame of Ashoka largely rests upon**

- (a) His conversion to Buddhism and its propagation (b) His policy for the welfare of his subjects  
(c) His work in the sphere of politics and moral teaching (d) His extensive conquests.

**Answer ( b )**

**Q23.** Gandhiji started Dandi March

- (a) To demonstrate against the British Empire (b) To break the salt law  
(c) To boycott foreign goods (d) None of the above

**Answer ( b )**

**Q24.** The first war of Indian Independence began on 10 May 1857 at

- (a) Meerut (b) Jhansi  
(c) Barrackpore (d) Delhi

**Answer ( a )**

**Q25.** The sun rises in Arunachal Pradesh two hours before it does in Dwaraka in Gujarat. This is because the former is

- (a) Higher in elevation than Dwaraka and the earth rotates from West to East (b) Situated further North than Dwaraka and the earth rotates from West to East  
(c) Situated further East (about 30° Longitude) than Dwaraka and the earth rotates from West to East. (d) Situated about 300 East of Dwaraka and the earth rotates from West to East

**Answer ( c )**

- Q26.** Srinagar is situated on the banks of the river  
(a) Ravi (b) Sutlej  
(c) Jhelum (d) Chenab  
**Answer (c)**
- Q27.** The areas in India that receive approximately an average of more than 200 cms of rainfall annually are  
(a) Meghalaya, Assam, Nagaland, (b) Orissa, Madhya Pradesh, Gujarat, Maharashtra  
Arunachal Pradesh.  
(c) Meghalaya, Assam, Rajasthan, Jammu (d) Meghalaya, Delhi, Punjab, Rajasthan  
& Kashmir  
**Answer (a)**
- Q28.** Isotherms are imaginary lines drawn on a map which connect places of equal  
(a) Atmospheric pressure (b) Humidity  
(c) Rainfall (d) Temperature  
**Answer (d)**
- Q29.** Jim Corbett National Park is situated in which state?  
(a) Arunachal Pradesh (b) Himachal Pradesh  
(c) Andhra Pradesh (d) Uttaranchal  
**Answer (d)**
- Q30.** Which one of the following statement regarding the sun is correct?  
(a) The sun is composed mainly of hydrogen. (b) Its energy is generated by nuclear collision in its interior  
(c) It is calculated that the sun consumes about a trillion pounds of hydrogen every second. (d) All of the above.  
**Answer (d)**
- Q31.** Supersonic speed is speed greater than the speed of sound (in air at sea level) that is to say around \_\_\_\_\_ miles/hour.  
(a) 760 (b) 860  
(c) 960 (d) 1060  
**Answer (a)**
- Q32.** Yoga sutra was written by  
(a) Vatsyayana (b) Pathanjali  
(c) Bhartrihari (d) Maharshi Mahesh  
**Answer (b)**
- Q33.** The National Institute of Oceanography is located at  
(a) Trivandrum (b) Panaji  
(c) Cochin (d) Mangalore  
**Answer (b)**
- Q34.** An aeroplane rises because  
(a) Of upward reaction of air (b) The density of air above the plane is less than below it  
(c) The pressure above its wings is less than the pressure below them. (d) Its nose points upwards.  
**Answer (c)**

- Q35.** Rocks formed on the solidification of molten matter are called  
(a) Metamorphic rocks (b) Sedimentary rocks  
(c) Volcanic rocks (d) Igneous rocks  
**Answer (d)**
- Q36.** The pioneer of Atomic energy in India is  
(a) Homi J Bhabha (b) Vikram Sarabhai  
(c) C.V. Raman (d) C.K. Naidu  
**Answer (a)**
- Q37.** Which one of the following statements regarding FIFA World Cup 2010 is not correct?  
(a) South Africa became the first host nation to fail to qualify for the tournament's second round.  
(b) The tournament was the culmination of a qualification process that began in August 2007  
(c) This is the first time that the tournament was hosted by an African nation.  
(d) Zakumi, the official mascot for the FIFA World Cup, 2010 is an African bush elephant  
**Answer (a)**
- Q38.** The first Indian to win the World Amateur Snooker Championship is  
(a) Om Agarwal (b) Geet Sethi  
(c) Michael Ferreira (d) Wilson Jones  
**Answer (a)**
- Q39.** The first person to win the Arjuna award for badminton is  
(a) Pullela Gopichand (b) Prakash Padukone  
(c) Nandu Natekar (d) Farook Engineer  
**Answer (c)**
- Q40.** The sport which requires the largest field is  
(a) Football (b) Cricket  
(c) Hockey (d) Polo  
**Answer (d)**

**Directions:** *Find the odd one out.*

- Q41.** (a) Advice (b) Counsel (c) Direct (d) Suggest  
**Answer (c)**
- Q42.** (a) Tumble (b) Topple (c) Crumble (d) Sprain  
**Answer (d)**
- Q43.** (a) Sobriquet (b) Alias (c) Pseudonym (d) Anonymous  
**Answer (a)**
- Q44.** (a) Mumbai (b) Goa (c) Visakhapatnam (d) Thiruvananthapuram  
**Answer (d)**
- Q45.** (a) Petrol (b) Acetone (c) Mercury (d) Kerosene  
**Answer (c)**

**Directions:** In the following questions the words given bear a certain relationship. Your task is to find out from the choices the words with the same relationship.

**Q46.** Hope: Despair

- (a) Work : Failure  
(c) Cow : Milk

- (b) Worship : Adore  
(d) Encourage : Dishearten

**Answer (d)**

**Q47.** Army: Logistics

- (a) War: Logic  
(c) Business : Strategy

- (b) Students  
(d) Team : Individual

**Answer (c)**

**Q48.** Bouquet : Flower

- (a) Skin : Body  
(c) Product : Factory

- (b) Chain : Link  
(d) Page : Book

**Answer (b)**

**Q49.** Revenge: Vendetta

- (a) Sleep: Dream  
(c) Envy : Jealousy

- (b) Sun: Moon  
(d) Heaven : God

**Answer (c)**

**Q50.** Refine : Style

- (a) Retouch : Photograph  
(c) Compose : Song

- (b) Paint : Wall  
(d) Author : Book

**Answer (a)**

**Q51.** Fear : Tremble

- (a) Hand: Shake  
(c) Distance : Walk

- (b) Heat : Perspire  
(d) Evening : Star

**Answer (b)**

**Q52.** Condone: Offence

- (a) Punish: Criminal  
(c) Overlook: Aberration

- (b) Mitigate: Penitence  
(d) Ignore: Loyalty

**Answer (c)**

**Q53.** Plant : Flower

- (a) Face : Eye  
(c) Chair : Sofa

- (b) Stem : Tree  
(d) Blades : Grass

**Answer (a)**

**Q54.** Protoplasm : Cell

- (a) Fibre : Plastic  
(c) Chemistry : Elements

- (b) Coin : Money  
(d) Chain : Link

**Answer (b)**

**Q55.** Nalanda : Takshshila

- (a) Venus : Mars  
(c) Office : Department

- (b) University : College  
(d) Ship : Cargo

**Answer (a)**

**Directions:** In the following questions (Q56-60) the first word is related to the second in the same way as the third word is related to the fourth. In the given problems either the third or the fourth word is missing and is left blank. You have to choose the correct word to fill in the blank.

**Q56.** Foot is to Man as Hoof is to \_\_\_\_\_.

- (a) Dog (b) Cow (c) Cat (d) Rabbit

**Answer (b)**

**Q57.** Broad is to Narrow as \_\_\_\_\_ is to Lane.

- (a) Footpath (b) Field (c) Pavement (d) Road

**Answer (d)**

**Q58.** Back is to Backbone as Belly is to \_\_\_\_\_.

- (a) Throat (b) Ribs (c) Heart (d) Navel

**Answer (b)**

**Q59.** Ankle is to Knee as Wrist is to \_\_\_\_\_.

- (a) Elbow (b) Finger (c) Hand (d) Foot

**Answer (a)**

**Q60.** Sting is to Bee as \_\_\_\_\_ is to Snake.

- (a) Slithering (b) Rats (c) Poison (d) Fangs

**Answer (d)**

**Q61.** Hari's income is 20% more than Madhu's income. Madhu's income is less than Hari's income by

- (a) 15% (b) 16.66 % (c) 20% (d) 22.25%

**Answer (b)**

**Q62.** A sum of money lent out at simple interest doubled itself in 20 years. In how many years will it triple itself?

- (a) 28 years (b) 30 yrs (c) 40 yrs (d) 35 yrs

**Answer (c)**

**Q63.** Which of the following fractions are in ascending order?

- (a)  $\frac{2}{3}, \frac{3}{5}, \frac{7}{9}, \frac{9}{11}, \frac{8}{9}$  (b)  $\frac{3}{5}, \frac{2}{3}, \frac{9}{11}, \frac{7}{9}, \frac{8}{9}$  (c)  $\frac{3}{5}, \frac{2}{3}, \frac{7}{9}, \frac{9}{11}, \frac{8}{9}$  (d)  $\frac{8}{9}, \frac{9}{11}, \frac{7}{9}, \frac{2}{3}, \frac{3}{5}$

**Answer (c)**

**Q64.**  $337.62 + 8.591 + 34.4 = ?$

- (a) 370.611 (b) 380.511 (c) 380.611 (d) 426.97

**Answer (c)**

**Q65.** Find the sum of:  $-\frac{1}{9} + \frac{1}{6} + \frac{1}{12} + \frac{1}{72}$

- (a)  $\frac{3}{5}$  (b)  $\frac{3}{2}$  (c)  $\frac{3}{8}$  (d)  $\frac{4}{7}$

**Answer (c)**

**Q66.** Find the average of all the numbers between 6 and 34 which are divisible by five.

- (a) 18 (b) 20 (c) 24 (d) 30

**Answer (b)**

**Q67.** The average of first 80 natural numbers is

- (a) 40 (b) 41 (c) 40.5 (d) 142

**Answer (c)**

**Q68.** If the sum of a few numbers is 450 and their mean is 50 and if another number 100 is included, the mean would become

- (a) 55 (b) 60 (c) 75 (d) 150

**Answer (a)**

**Q69.** ?% of  $932 + 30 = 309.6$

- (a) 25 (b) 30 (c) 35 (d) 40

**Answer (b)**

- Q70.** The difference between a number and its two-fifth is 510. What is 10% of that number?  
 (a) 12.75 (b) 85 (c) 204 (d) None  
**Answer (b)**
- Q71.** One litre of water is evaporated from 6 litres of a solution containing 5% salt. The percentage of salt in the remaining solution is  
 (a) 16% (b) 5% (c) 4% (d) 6%  
**Answer (d)**
- Q72.** A shopkeeper professes to sell all things at a discount of 10% but increases the Selling Price of each article by 20%. His gain on each article is  
 (a) 6% (b) 8% (c) 10% (d) 12%  
**Answer (b)**
- Q73.** If the selling price of an article is  $\frac{4}{3}$ rd of its cost price, the profit in transaction is  
 (a) 16.75% (b) 20.50% (c) 25.50% (d) 33.33%  
**Answer (d)**
- Q74.** If selling price is doubled, the profit triples. Find the profit percent.  
 (a) 66.66 (b) 100 (c) 105.33 (d) 120  
**Answer (b)**
- Q75.** If  $\frac{4}{5}$ th of an estate is worth ` 16,800, then the value of  $\frac{3}{7}$ th of the estate is  
 (a) `9000 (b) ` 21000 (c) ` 72000 (d) ` 90000  
**Answer (a)**
- Q76.** If  $\frac{a}{b} = \frac{3}{4}$  and  $8a+5b=22$ , then the value of 'a' is  
 (a) 1 (b)  $\frac{1}{2}$  (c)  $\frac{3}{2}$  (d)  $\frac{3}{4}$   
**Answer (c)**
- Q77.** If (a-b) is 6 more than (c+d) and (a+b) is 3 less than (c-d), then the value of (a-c) is  
 (a) 0.5 (b) 1.0 (c) 1.5 (d) 2.0  
**Answer (c)**
- Q78.** Two numbers are in the ratio 7:8. If 3 is added to each of them their ratio becomes 8:9. The numbers are  
 (a) 14, 16 (b) 24, 27 (c) 21, 24 (d) 16, 18  
**Answer (c)**
- Q79.** The sum of three numbers is 98. If the ratio of the first to the second is 2:3 and that of the second to the third is 5:8, then the second number is  
 (a) 20 (b) 30 (c) 48 (d) 58  
**Answer (b)**
- Q80.** A certain amount was divided between Sita and Gita in the ratio 9:8. If Sita's share was 4500 then the amount is  
 (a) 9000 (b) 8500 (c) 6750 (d) 9025  
**Answer (b)**

**Directions:** Find out which of the figures (1), (2), (3) and (4) can be formed from the pieces given in figure (X) (Q81 to Q84).

Q81.



(X)



(1)

(2)

(3)

(4)

(a) 1

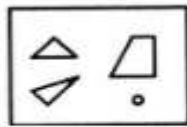
(b) 2

(c) 3

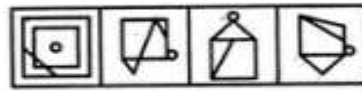
(d) 4

**Answer (c)**

Q82.



(X)



(1)

(2)

(3)

(4)

(a) 1

(b) 2

(c) 3

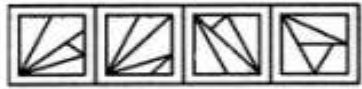
(d) 4

Answer (c)

Q83.



(X)



(1)

(2)

(3)

(4)

(a) 1

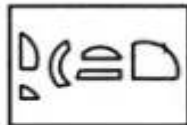
(b) 2

(c) 3

(d) 4

Answer (c)

Q84.



(X)



(1)

(2)

(3)

(4)

(a) 1

(b) 2

(c) 3

(d) 4

Answer (a)

Q85. Find out how the key figure (X) will look like after rotation.



(X)



(1)

(2)

(3)

(4)

(a) 1

(b) 2

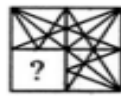
(c) 3

(d) 4

Answer (c)

Directions: In each of the following questions (Q.86-90) select a figure from amongst the four alternatives, which when placed in the blank space of figure (X) would complete the pattern.

Q86.



(X)



(1)



(2)



(3)



(4)

(a) 1

(b) 2

(c) 3

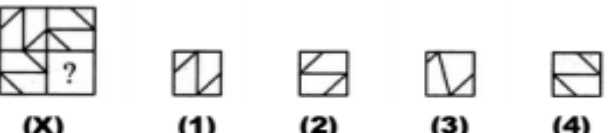
(d) 4

Answer (d)




Q87.   
 (a) 1 (b) 2 (c) 3 (d) 4

Answer (c)

Q88.   
 (a) 1 (b) 2 (c) 3 (d) 4

Answer (a)


Q89.   
 (a) 1 (b) 2 (c) 3 (d) 4

Answer (d)

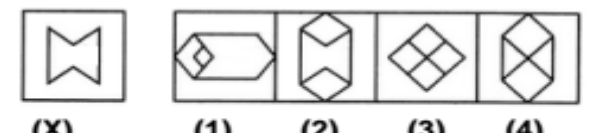
Q90.   
 (a) 1 (b) 2 (c) 3 (d) 4

Answer (c)

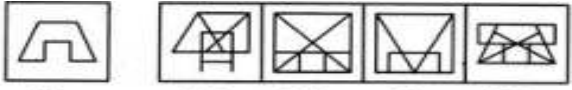
**Directions:** *In each of the following questions (Q91-95) you are given a figure (X) followed by four alternative figures (1), (2), (3) and (4) such that figure (X) is embedded in one of them. Trace out the alternative figure which contains fig. (X) as its part.*

Q91.   
 (a) 1 (b) 2 (c) 3 (d) 4

Answer (a)

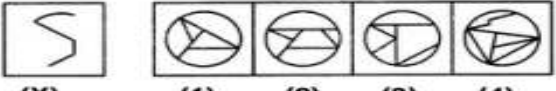
Q92.   
 (a) 1 (b) 2 (c) 3 (d) 4

Answer (b)

Q93. 


(a) 1 (b) 2 (c) 3 (d) 4

Answer (d)

Q94. 

(a) 1 (b) 2 (c) 3 (d) 4

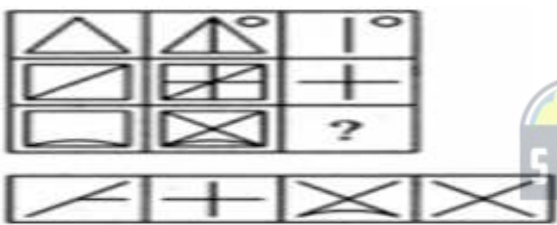
Answer (b)

Q95. 

(a) 1 (b) 2 (c) 3 (d) 4

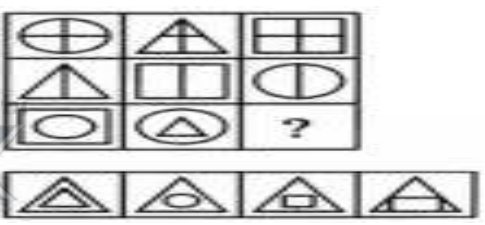
Answer (b)

**Directions:** In each of the following questions (Q96-100) find out which of the answer figures (a), (b), (c) and (d) completes the figure matrix

Q96. 

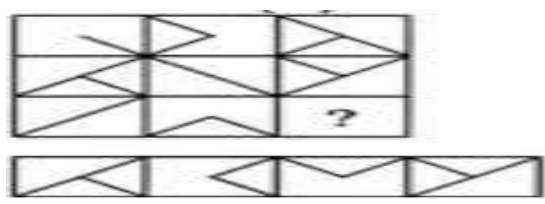
(a) (b) (c) (d)

Answer (d)

Q99. 

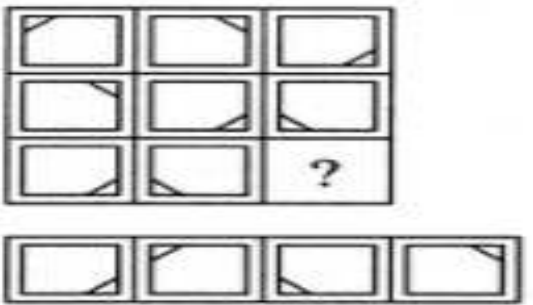
(a) (b) (c) (d)

Answer (c)

Q97. 

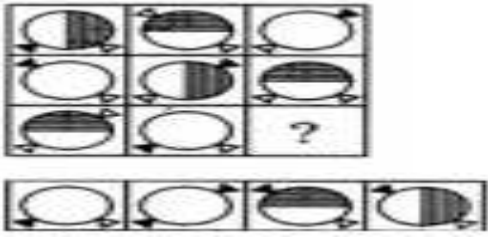
(a) (b) (c) (d)

Answer (a)

Q100. 

(a) (b) (c) (d)

Answer (b)

Q98. 

(a) (b) (c) (d)

Answer (d)

## Hints and Solutions

### Q. No

**21.** Manu is regarded as the greatest law giver of ancient India. He belongs to 2<sup>nd</sup> century BC Manu Smriti is his famous compilation.

**22.** Ashoka, a great ruler of Maurya Dynasty, is famous in history for his welfare works for his subjects. His rule is treated as first welfare state in history.

**23.** Gandhiji started Dandi March in 1930 to break the salt law.

**25.** India lies between 68.7° E to 97.25° E longitude. The longitudinal difference between Eastern and Western end is 30°. It means time difference between the two ends is two hours. This is the reason the Sun rises in Arunachal Pradesh two hours before it does in Gujarat.

**26.** Srinagar is situated on the bank of the river Jhelum.

**27.** North-East regions in India receive more than 200 cm of rainfall annually.

**28.** Isotherms are imaginary lines drawn on the map which connect places of equal temperature.

**29.** Jim Corbett National Park is located in Uttarakhand. It is the first National park established in India.

**31.** The speed greater than the speed of sound is called supersonic. Supersonic speed is equal to 786 miles/h.

**33.** The National Institute of Oceanography is located at Panaji.

**39.** Nandu Natekar was the first person to win Arjuna award for badminton in 1961.

**61.** Let us assume Madhu's income- ₹ 100  
now Hari 20% more than Madhu  
so Hari have -₹ 120  
so Hari have ₹ 20 extra compare to Madhu  
(20/100)\*100=(2/10)\*100 =**16.66%**

**62.**  $P = ₹ X, A = ₹ 2x, t = 20 \text{ yr}$   
 $SI = A - P = 2x - x = ₹ x$   
 $r = \frac{SI \times 100}{P \times t} = \frac{x \times 100}{x \times 20} = 5\%$

Again  $P = ₹ x$   
 $A = 3x, r = 5\%$   
 $SI = A - P = 3x - x = 2x$   
 $t = \frac{SI \times 100}{P \times r} = \frac{2x \times 100}{x \times 20} = 40 \text{ yr}$

**63.**  $\frac{3}{5} = 0.6$   
 $\frac{2}{3} = 0.6666 \quad \frac{7}{9} = 0.7777$   
 $\frac{9}{11} = 0.8181 \quad \frac{8}{9} = 0.8888$   
 $\therefore \frac{3}{5}, \frac{2}{3}, \frac{7}{9}, \frac{9}{11}, \frac{8}{9}$  are in ascending order.

**64.**  $337.62 + 8.591 + 34.4 = X \Rightarrow X = 380.611$

**65.**  $\frac{1}{9} + \frac{1}{6} + \frac{1}{12} + \frac{1}{72} = \frac{8+12+6+1}{72} = \frac{27}{72} = \frac{3}{8}$

**66.** Average =  $\frac{10+15+20+25+30}{5} = \frac{100}{5} = 20$

**67.** Average =  $\frac{80 \times 81}{2 \times 80} = \frac{81}{2} = 40.5$

**68.**  $n = \frac{450}{50} = 9$  New mean =  $\frac{550}{10} = 55$

**69.**  $\frac{x}{100} \times 932 + 30 = 309.6$   
 $\Rightarrow \frac{932}{100} = 279.6$   
 $\Rightarrow 932x = 27960$

$\Rightarrow x = \frac{27960}{932} = 30\%$

**70.** Let the number be x.

According to the question,  $x - \frac{2x}{5} = 510$

$\Rightarrow 3x + 5 \times 510$

$\Rightarrow x = \frac{5 \times 510}{3} = 5 \times 170 = 850$

10% of 850 =  $\frac{10}{100} = 85$

73. If CP=1 n SP= 4/3...then profit= SP-CP=4/3-1=1/3...profit in % = profit/CP X\*100...so it will b..profit in%= (1/3)/1\*100=33.33%

75.  $\frac{4}{5}$  th = 16800

$$\therefore 1 = \frac{16800 \times 5}{4}$$

$$\therefore \frac{3}{7} \text{th} = \frac{16800 \times 5 \times 3}{4 \times 7} = ₹ 9000$$

76. (a/b)=3/4  $\Rightarrow$  b=(4/3) a.  
 $\therefore 8a+5b=22 \Rightarrow 8a+5*(4/3) a=22$   
 $\Rightarrow 8a+(20/3) a=22$   
 $\Rightarrow 44a = 66 \Rightarrow a=(66/44)=3/2$

77. a - b = c + 6  
a + b = c - d - 3  
Adding Eqs. (i) and (ii)  
2a = 2c + 3  $\Rightarrow 2a - 2c = 3$   
 $\Rightarrow 2(a-c) = 3$   
A - c =  $\frac{3}{2} = 1.5$

78. Let number are 7x and 8b  
 $\frac{7x+3}{8x+3} = \frac{8}{9}$   
63x = 27 = 64x + 24  
X = 23  
Numbers are 21 and 24.

79. Let the three parts be A, B, C. Then,

$$A : B = 2 : 3 \text{ and } B : C = \left( \frac{5}{x} \frac{3}{5} \right) : \left( \frac{8}{x} \frac{3}{5} \right) = 3 \frac{24}{5}$$

$$\Rightarrow A : B : C = 2 : 3 : \frac{24}{5} = 10 : 15 : 24$$

$$\Rightarrow B = \left( 98 \times \frac{15}{49} \right) = 30.$$

80. Let the amount be ₹ x

$$\frac{9}{17}x = 4500$$

$$\Rightarrow x = \frac{4500 \times 17}{9} = ₹ 8500$$

86. Figure (d) will complete the pattern.

87. Figure © will complete the hexagon given in the figure (X)

89. Figure (d) will complete the figure (X) in the same pattern given in the question

92.

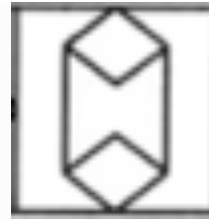


Figure (X) is embedded with figure (b)

93.

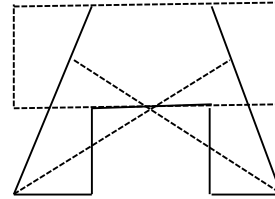


Figure (X) is embedded with figure (d).

94.



Figure (X) is embedded with figure (b).

95.

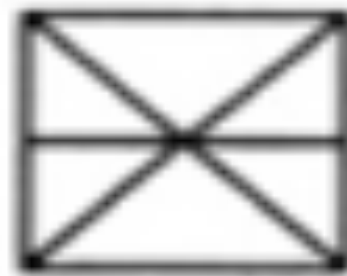


Figure (X) is embedded with figure (b).

96. Image in third column of each row is the image obtained after erasing image in first row from the image in the second row. So, required image is the image given in option (d).

**97.** Here, image in a row shown clockwise rotation. Hence, required image is in option (a).

**99.** Here, square is changing into circle and circle is changing into triangle and triangle is

changing into square. Hence required figure will be a square a triangle.

**100.** Here, each image in a column is rotated clockwise by  $90^\circ$ . Hence, required image will be given in option (b).

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# Air Force Common Admission Test

## Solved Paper AFCAT – 2/2011

**Directions:** Read the following passage carefully and answer the questions given below.

### Passage

Educational planning should aim at meeting the educational needs of the entire population of all age groups. While the traditional structure of education as a three layer hierarchy from the primary stage to the university represents the core, we should not overlook the periphery which is equally important. Under modern conditions, workers need to rewind, or renew their enthusiasm, or strike out in a new direction, or improve their skills as much as any university professor. The retired and the aged have their needs as well. Educational planning, in their words, should take care of the needs of everyone.

Our structures of education have been built up on the assumption that there is a terminal point to education. This basic defect has become all the more harmful today, A UNESCO report entitled 'Learning to Be' prepared by Edger Faure and others in 1973 asserts that the education of children must prepare the future adult for various forms of self-learning. A viable education system of the future should consist of modules with different kinds of functions serving a diversity of constituents. And performance, not the period of study, should be the basis for credentials. The writing is already on the wall.

In view of the fact that the significance of a commitment of lifelong learning and lifetime education is being discussed only in recent years even in educationally advanced countries, The possibility of the idea becoming an integral part of educational thinking seems to be a far cry. For, to move in that direction means such more than some simple rearrangement of the present organisation of education. But a good beginning can be made by developing open university programmes for older learners of different categories and introducing extension services in the conventional colleges and schools. Also these institutions should learn to co-operate with the numerous community organizations such as libraries, museums, municipal recreational programmes, health services etc.

**Q1.** What is the main thrust of the author?

- |  |  |
|--|--|
| (a) Traditional systems should be strengthened | (b) Formal education is more important than non-formal |
| (c) One should never cease to learn            | (d) Formal education is more important than non-formal |
- Answer (c)**

**Q2.** What should be the major characteristic of the future educational system?

- |  |                                     |
|--|-------------------------------------|
| (a) Different modules with same function       | (b) Same module for deferent groups |
| (c) No modules but standard compulsory for all | (d) None of these                   |
- Answer (d)**

- Q3.** According to the author, what measures should Open University adopt to meet modern conditions?  
(a) Develop various programmes for adult Learners (b) Open more colleges on traditional lines  
(c) Cater to the needs of those who represent Core (d) Primary education should be under the control of open universities  
**Answer (a)**

- Q4.** In the context of the passage, what is the meaning of the sentence 'The writing is already on the wall'?  
(a) Everything is uncertain now-a-days (b) Changes have already taken place  
(c) The signs of change are already visible (d) You cannot change future  
**Answer (c)**

**Directions:** In each of the following questions, find out which part of the sentence has an error. If there is no mistake, the answer is (d) "No error".

- Q5.** It was a year since (a)/I received any letter (b) /from my sister. (c)/ No error (d)  
**Answer (a)**
- Q6.** His family members may arrive (a)/ any moment (b)/ by car. (c) /No error (d)  
**Answer (b)**
- Q7.** He went to office (a) /but returned back (b) / home immediately. (c) / No error (d)  
**Answer (b)**
- Q8.** The two brothers amicably divided (a) / their parents' property (b) / among them. (c) No error (d)  
**Answer (c)**
- Q9.** To attain high academic standard (a)/ in his college Sunil worked hard (b) / since morning till night. (c) / Noerror (d)  
**Answer (c)**

**Directions:** Pick out the most effective word from the given words to fill in the blank to make the sentence meaningfully complete.

- Q10.** Mohini is an independent and innovative thinker, therefore, it is best to grant her a good deal of \_\_\_\_\_ with regard to the direction of her research.  
(a) leverage (b) interest (c) assistance (d) money  
**Answer (c)**
- Q11.** The \_\_\_\_\_ of meat in your refrigerator does not necessarily indicate that you are a vegetarian.  
(a) presence (b) absence (c) amount (d) colour  
**Answer (b)**
- Q12.** Due to the rise of new media technology, many people predict newspapers will soon be \_\_\_\_\_.  
(a) obsolete (b) ubiquitous (c) commonplace (d) widespread  
**Answer (a)**
- Q13.** Attention to detail is the \_\_\_\_\_ of a fine craftsman  
(a) hallmark (b) stamp (c) authenticity (d) show  
**Answer (a)**

- Q14.** Although the two sisters are twins, they look somewhat \_\_\_\_\_.
- (a) alike                      (b) unique                      (c) different                      (d) related
- Answer (c)**

**Directions:** In each of the following choose the word most similar in meaning to the word given in capitals.

- Q15.** VENERATE
- (a) Reject                      (b) Remove                      (c) Love                      (d) Respect
- Answer (d)**

- Q16.** VACILLATE
- (a) Waver                      (b) Disintegrate                      (c) Relegate                      (d) Salute
- Answer (a)**

- Q17.** FELICITY
- (a) Zeal                      (b) Excitement                      (c) Happiness                      (d) Expertise
- Answer (c)**

**Directions:** Pick out the word that is most nearly the opposite in meaning to the word given in capitals.

- Q18.** HYSTERIA
- (a) Disease                      (b) Ceremony                      (c) Serenity                      (d) Frenzy
- Answer (c)**

- Q19.** ABSTAIN
- (a) Indulge                      (b) Dismiss                      (c) Repel                      (d) Acquire
- Answer (a)**

- Q20.** SACROSANCT
- (a) Irreligious                      (b) Unethical                      (c) Irreverent                      (d) Unholy
- Answer (d)**

**Directions:** In the following questions, choose the correct answer.

- Q21.** The famous Grand Trunk (GT) Road from Peshawar to Kolkata was built by-
- (a) Akbar                      (b) Ashok                      (c) Sher Shah Suri                      (d) Chandragupta
- Answer (c)**

- Q22.** The Ashoka Pillar whose Lion Capitol (Carving) was adopted by the Government of India as National Emblem is situated at –
- (a) Akbar                      (b) Ashok                      (c) Sher Shah Suri                      (d) Chandragupta
- Answer (d)**

- Q23.** The Preamble of the Constitution of India was prepared by-
- (a) Members of Constituent Assembly                      (b) BR Ambedkar
- (c) Jawaharlal Nehru                      (d) Dr. Radhakrishnan
- Answer (c)**



- Q24.** The two great revolutionaries who threw a bomb in Legislative Assembly were-  
 (a) Bhagat Singh & BK Dutt (b) Bhagat Singh & Chandrashekhar Azad  
 (c) Chandrashekhar Azad & Bismil (d) Bhagat Singh & Ashfaq Ullah Khan  
**Answer (a)**
- Q25.** 'Duckworth Lewis Rule' is used in the game of –  
 (a) Lawn Tennis (b) Cricket (c) Basketball (d) Rugby  
**Answer (b)**
- Q26.** Dronacharya award is given for outstanding contribution in the field of –  
 (a) Sports (b) Sarv Shiksha Abhiyan (c) Anganwadi (d) Music  
**Answer (a)**
- Q27.** Who was the first Indian woman to climb Mount Everest?  
 (a) Junko Tabei (b) Bachendri Pal (c) Dola Banerjee (d) Sanamacha Chanu  
**Answer (b)**
- Q28.** The first Olympic Games were held in 1896 at –  
 (a) Rome (b) Athens (c) Paris (d) London  
**Answer (b)**
- Q29.** India tops the world in production of -  
 (a) Aluminium (b) Copper (c) Chromite (d) Mica  
**Answer (d)**
- Q30.** DPT vaccine does not give protection to a child from-  
 (a) Tetanus (b) Polio (c) Diphtheria (d) Whooping Cough  
**Answer (d)**
- Q31.** What will be the colour of a red rose when it is seen through green glass?  
 (a) White (b) Black (c) Pink (d) Brown  
**Answer (b)**
- Q32.** Which one of the following is the exclusive power of the Lok Sabha?  
 (a) To Introduce Money Bill (b) To ratify declaration of Emergency  
 (c) To impeach the President (d) To pass No Confidence motion against Council of Ministers  
**Answer (d)**
- Q33.** Indigenously built supersonic cruise missile is known as –  
 (a) BrahMos (b) Prithvi (c) Nag (d) Astra  
**Answer (a)**
- Q34.** Which one of the following crops enriches nitrogen content in the soil?  
 (a) Pea (b) Sunflower (c) Potato (d) Wheat  
**Answer (a)**
- Q35.** Which of the following periodical winds blowing from sea to land cause summer monsoon in India?  
 (a) East West (b) North East (c) South West (d) South East  
**Answer (c)**
- Q36.** India's permanent research station 'Dakshin Gangotri' is situated in the-  
 (a) Great Himalayas (b) Indian Ocean (c) Arabian Sea (d) Antarctica  
**Answer (d)**
- Q37.** Which one of the following is the busiest ocean route in the world?  
 (a) Indian Ocean (b) Pacific Ocean (c) North Atlantic Ocean (d) South Atlantic Ocean  
**Answer (c)**

- Q38.** Defence Services Staff College is located at –  
 (a) Khadakvasala (b) Secunderabad (c) Dehradun (d) Wellington  
**Answer (d)**
- Q39.** The United Nations Organisation responsible to maintain international peace & security was established on 24 October in the year –  
 (a) 1920 (b) 1945 (c) 1939 (d) 1942  
**Answer (b)**
- Q40.** Who authored the book 'Freedom at Midnight'?  
 (a) Salman Rushdie (b) Charles Dickens (c) Mahatma Gandhi (d) Larry Collins and Dominique Lapierre  
**Answer (d)**
- Q41.** The number of girls in a class is five times the number of boys. Which of the following cannot be the total number of children in the class?  
 (a) 24 (b) 30 (c) 35 (d) 54  
**Answer (c)**
- Q42.** Ram went to a shop to buy 50 kg of rice. He bought two varieties of rice which cost him ₹ 4.50 per kg and ₹ 5 per kg. He spent a total of ₹ 240. What was the quantity of the cheaper rice purchased by him?  
 (a) 20 (b) 25 (c) 30 (d) None of these  
**Answer (a)**
- Q43.** A man has ₹ 640 in the denominations of one rupee, five rupee and ten rupee notes. The number of each type of notes are equal. What is the total number of notes he has?  
 (a) 60 (b) 150 (c) 90 (d) 120  
**Answer (d)**
- Q44.** The average of five consecutive odd numbers is 61. What is the difference between highest and lowest number?  
 (a) 2 (b) 5 (c) 8 (d) 12  
**Answer (c)**
- Q45.** Jayesh is twice as old as Vijay and half as old as Suresh. If the sum of Vijay's age and Suresh's age is 85 years what is the age of Jayesh?  
 (a) 34 years (b) 36 years (c) 68 years (d) 24 years  
**Answer (a)**
- Q46.** A cricketer has an average of 30 runs in 14 innings. How many runs should he score in his next innings to achieve an average of 32 runs?  
 (a) 65 (b) 60 (c) 55 (d) 50  
**Answer (b)**
- Q47.** What percentage of profit should be added in the cost price of an item so as to gain a profit of 33% after allowing 5% discount to the customer?  
 (a) 45 (b) 40 (c) 52 (d) 48  
**Answer (b)**
- Q48.** If the manufacturer gains 10%, the wholesale dealer gains 15% and the retailer gains 25%, find the cost of production of a table. The retail price of table is ₹ 1265.-  
 (a) 800 (b) 1000 (c) 950 (d) 1180  
**Answer (b)**
- Q49.** A loss of 19% on a shirt gets converted into a profit of 17% when the selling price is increased by ₹ 162. What is the cost price of the shirt?  
 (a) 540 (b) 450 (c) 600 (d) 360  
**Answer (b)**
- Q50.** In an examination, 75% of the total students passed in English and 65% passed in Mathematics, while 15% failed in English as well as Mathematics. If a total of 495 candidates were passed in all subjects, then how many students were appeared in the examination?  
 (a) 80 (b) 800 (c) 1100 (d) 700  
**Answer (c)**

- Q51.** When the price of a product was increased by 15%, the number of items sold was decreased by 20%. What was the net effect?  
 (a) 10% gain (b) 6% loss (c) 8% loss (d) 4% gain  
**Answer (c)**
- Q52.** A mixture of 40 liters of milk and water contains 10% water. How much water should be added to this mixture so that new mixture contains 20% water?  
 (a) 4 ltrs (b) 5 ltrs (c) 6.5 ltrs (d) 7.5 ltrs  
**Answer (b)**
- Q53.** The ratio of three numbers is 3:4:5 and the sum of their squares is 1250. The sum of the three numbers is –  
 (a) 30 (b) 50 (c) 60 (d) 90  
**Answer (c)**
- Q54.** The average age of three boys is 25 years and their ages are in the proportion 3:5:7. What is the age of the youngest boy?  
 (a) 15 years (b) 18 years (c) 21 years (d) 13 years  
**Answer (a)**
- Q55.** A man has few hens and cows. If the total number of heads are 48 and the total number of feet are 140 then the number of hens are –  
 (a) 22 (b) 23 (c) 24 (d) 26  
**Answer (d)**
- Q56.** A certain sum of money becomes three times of itself in 20 years at simple interest. In how many years will the initial sum become double at the same rate of simple interest?  
 (a) 8 (b) 10 (c) 12 (d) 14  
**Answer (b)**
- Q57.** Ram borrows ₹ 8000 at 12%p.a simple interest and Mohan borrows ₹ 9100 at 10% p.a. simple interest. In how many years will their borrowed amounts (debt) be equal?  
 (a) 18 (b) 20 (c) 22 (d) 24  
**Answer (c)**
- Q58.** Reena took a loan of ₹ 1200 with simple interest for a certain number of years. The number of years are same as the interest rate. If she has paid ₹ 432 as interest at the end of the loan period, what was the rate of interest?  
 (a) 3.6 (b) 6 (c) 12 (d) None of these  
**Answer (b)**
- Q59.** A student was asked to divide a number by 3. But, instead of dividing it he multiplied it by 3 and got 29.7 as the answer. What was the correct answer had he not made the mistake?  
 (a) 3.3 (b) 9.3 (c) 9.8 (d) 9.9  
**Answer (a)**
- Q60.** Which of the following fraction is the smallest?  
 (a)  $\frac{9}{13}$  (b)  $\frac{17}{26}$  (c)  $\frac{28}{39}$  (d)  $\frac{33}{52}$   
**Answer (d)**

**Directions:** Each question consist of two words which have a certain relationship to each other, followed by four pairs of related words, Select the pair which has the same relationship.

- Q61.** STORY : NOVEL  
 (a) Sea : Ocean (b) School : University (c) Book : Dictionary (d) Poetry : Drama  
**Answer (a)**
- Q62.** GRAIN : SALT  
 (a) Shard : Pottery (b) Shred : Wood (c) Blades : Grass (d) Chips : Glass  
**Answer (d)**
- Q63.** WAITER : TIP  
 (a) Student : Marks (b) Worker : Bonus (c) Employee : Wages (d) Clerk : Bribe  
**Answer (b)**

- Q64.** PAIN : SEDATIVE  
 (a) Comfort : Stimulant (b) Grief : Consolation (c) Trance : Narcotic (d) Ache : Extraction  
**Answer (b)**
- Q65.** Light : Blind : :  
 (a) Speech : Dumb (b) Language : Deaf (c) Tongue : Sound (d) Voice : Vibration  
**Answer (a)**
- Q66.** WAN : COLOUR  
 (a) Corpulent : Weight (b) Insipid : Flavour (c) Pallid : Complexion (d) Enigmatic : Puzzle  
**Answer (c)**
- Q67.** PORK : PIG  
 (a) Rooster : Chicken (b) Mutton : Sheep (c) Steer : Beef (d) Lobster : Crustacean  
**Answer (b)**
- Q68.** AFTER : BEFORE  
 (a) First : Second (b) Present : Past (c) Contemporary : Historic (d) Successor : Predecessor  
**Answer (d)**
- Q69.** EAST : ORIENT  
 (a) North : Polar (b) South : Capricorn (c) West : Indian (d) West : Occident  
**Answer (a)**
- Q70.** DISTANCE : MILE  
 (a) Liquid : Litre (b) Bushel : Corn (c) Weight : Scale (d) Fame : Television  
**Answer (a)**
- Q71.** TEN : DECIMAL  
 (a) Seven : Septet (b) Four : Quartet (c) Two : Binary (d) Five : Quince  
**Answer (c)**
- Q72.** MUNDANE : SPIRITUAL  
 (a) Common : Ghostly (b) Worldly : Unworldly (c) Routine : Novel (d) Secular : Clerical  
**Answer (b)**
- Q73.** LAWYER : COURT  
 (a) Businessman : Market (b) Chemist : Laboratory (c) Labourer : Factory (d) Athlete : Olympics  
**Answer (a)**
- Q74.** ARMY : LOGISTICS  
 (a) Business : Strategy (b) Soldier : Students (c) War : Logic (d) Team : Individual  
**Answer (a)**
- Q75.** GRAVITY : PULL  
 (a) Iron : Metal (b) North pole : Directions (c) Magnetism : Attraction (d) Dust : Desert  
**Answer (c)**
- Q76.** FILTER : WATER  
 (a) Curtail : Activity (b) Expunge : Book (c) Edit : Text (d) Censor : Play  
**Answer (d)**
- Q77.** HOPE : ASPIRES  
 (a) Love : Elevates (b) Film : Flare (c) Fib : Lie (d) Fake : Ordinary  
**Answer (c)**
- Q78.** SADIST : PAIN  
 (a) Killer : Death (b) Teacher : Pupil (c) Injury : Bandage (d) Alcohol : Dipsomaniac  
**Answer (a)**
- Q79.** SYMPHONY : COMPOSER  
 (a) Leonardo : Music (b) Fresco : Painter (c) Colours : Palette (d) Art : Appreciation  
**Answer (b)**
- Q80.** CURATOR : MUSEUM  
 (a) Wit : Wisdom (b) Bank : Teller (c) Manager : Office (d) Doctor : Patient  
**Answer (c)**

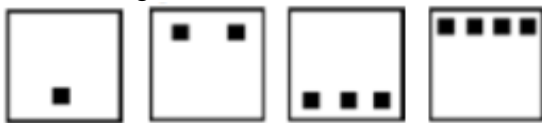
- Q81.** Which word in each set of four is the odd one out?  
 (a) Look (b) See (c) Watch (d) Face  
**Answer (d)**
- Q82.** This test requires you to identify the relationship between two words. Shoe is to foot as sock is to—  
 (a) wind (b) hand (c) foot (d) leg  
**Answer (d)**
- Q83.** Relaxed means the same as the opposite of —  
 (a) calm (b) angry (c) tense (d) sleep  
**Answer (c)**

**Directions:** Which number comes next in this series?

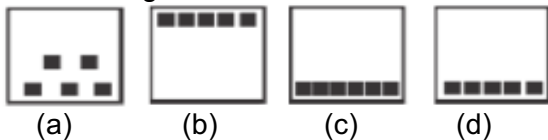
- Q84.** 1, 4, 7, 10, 13, 16, ?  
 (a) 17 (b) 19 (c) 21 (d) None of these  
**Answer (b)**
- Q85.** 0, 1, 3, 6, 10, 15, ?  
 (a) 19 (b) 21 (c) 26 (d) 32  
**Answer (b)**
- Q86.** 36, 34, 30, 28, 24, ?  
 (a) 20 (b) 22 (c) 23 (d) 26  
**Answer (b)**
- Q87.** 22, 21, 23, 22, 24, 23, ?  
 (a) 22 (b) 24 (c) 25 (d) 26  
**Answer (c)**
- Q88.** 53, 53, 40, 40, 27, 27, ?  
 (a) 12 (b) 14 (c) 27 (d) 53  
**Answer (b)**
- Q89.** 8, 22, 8, 28, 8, ?  
 (a) 9 (b) 34 (c) 29 (d) 32  
**Answer (b)**
- Q90.** 31, 29, 24, 22, 17, ?  
 (a) 15 (b) 14 (c) 13 (d) 12  
**Answer (a)**

**Directions:** This set of questions is based upon the continuation of figures in a logical manner. There is a sequence of figures depicting a change step by step. Select one of figure from the four choices shown as (a), (b), (c) & (d) which will continue the sequence.

**Q91. Problem Figures**

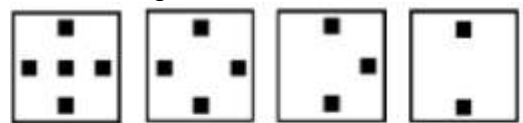


**Answer Figures**

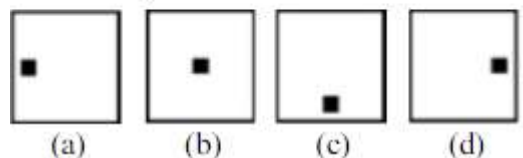


**Answer (d)**

**Q92. Problem Figures**



**Answer Figure**



**Answer (c)**

**Q93.** Problem Figures

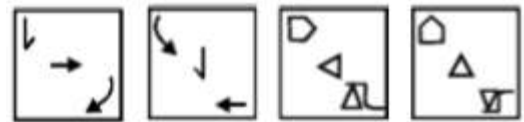


Answer Figure

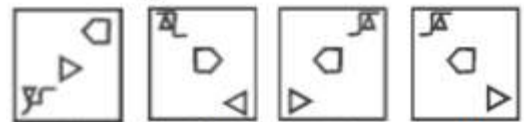


**Answer (a)**

**Q94.** Problem Figures



Answer Figure



**Answer (b)**

**Direction:** Which symbol in the answer figure completes the sequence in the problem figure?

**Q95.** Problem Figures



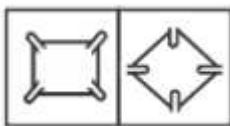
Answer Figure



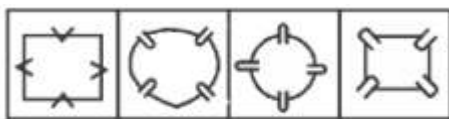
**Answer (c)**

**Direction:** There are certain common characteristics between the two problem figures. Select a figure from amongst the answer figures which shows similar characteristics/ properties as shown by the problem figures.

**96.** Problem Figures



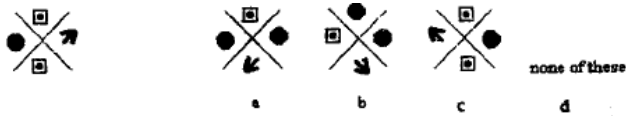
Answer Figures



**Answer (d)**

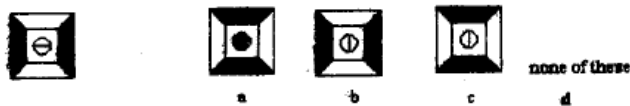
**Direction:** Your task here is to look at the target figure and decide which of the rotated figures below is identical to it. If you do not think any of the figures is the same as the target shape then choose the answer option (d)

Q97.



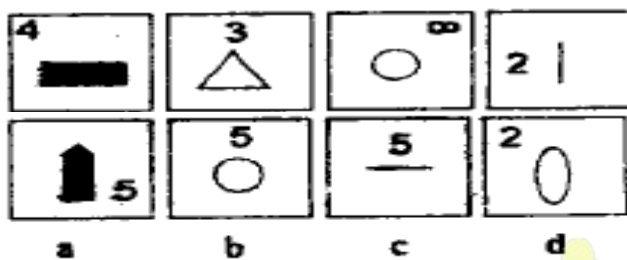
Answer (c)

Q98



Answer (c)

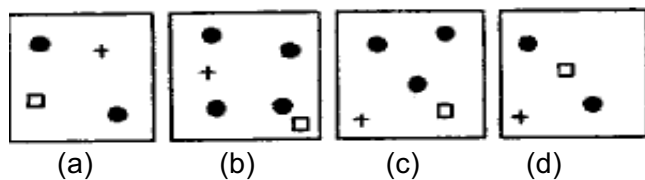
Q99.



Answer (a)

**Direction:** Your task here is to look at the series of four figures and works out the rule which links them all. Choose of the three following figures obey that and identify the one which does not.

Q100.



Answer (c)

## Hints and Solutions

### Q. No.

- 21.** Shershah Suri, a great Afghan ruler, improved communications by laying several roads. Grand Trunk Road was famous among them, it connects Peshawar to Kolkata.
- 22.** Ashoka's lion pillar is located at Sarnath. Govt of India adopted lion capital as National emblem on January 26, 1950.
- 23.** The draft of the preamble was prepared by Jawaharlal Nehru and is based on the American model.
- 25.** Duckworth Lewis Rule is used in the game of Cricket.
- 27.** Bachendri Pal was the first Indian woman to climb Mt Everest in 1984.
- 29.** India produces almost half of world mica.
- 32.** Lok Sabha in many ways is superior to Rajya Sabha. Council of Ministers is responsible to the Lok Sabha. No confidence motion is only presented in the House of Peoples. Through this mechanism Lok Sabha controls executive.
- 35.** India gets summer monsoon from South-West periodical winds.
- 37.** North Atlantic Ocean is the busiest ocean route in the world. Trade between Europe and America is conducted through this route.
- 41.**  $6x = 24$   
 $6x = 30$   
 $6x = 54$   
But  $6x \neq 35$
- 42.**  $20\text{kg} \times 4.50 = ₹ 90$   
 $30\text{kg} \times 5 = ₹ 150$   
Total = ₹240
- 43.** Let he has  $x$  notes of each kind  
 $x + 5x + 10x = 640$   
 $16x = 640$   
 $x = 40$   
Total number of notes =  $3 \times 40 = 120$
- 44.** Let the numbers be  $x, x + 2, x + 4, x + 6$  and  $x + 8$ .  
Then  $[x + (x + 2) + (x + 4) + (x + 6) + (x + 8)] / 5 = 61$ .  
or  $5x + 20 = 305$  or  $x = 57$ .  
So, required difference =  $(57 + 8) - 57 = 8$
- 45.** Let the age of Jayesh =  $x$  yr  
Vijay's age =  $\frac{x}{2}$  yr  
Suresh's age =  $2x$  yr  
 $\frac{x}{2} \times 2x = 85 \Rightarrow 5x = 85 \times 2$   
 $\Rightarrow x = 34$   
 $\therefore$  The age of Jayesh = **34yr**
- 46.** Total runs in 14 innings =  $30 \times 14 = 420$   
Total number of runs in 15 innings =  $32 \times 15 = 480$   
 $\therefore$  Number of runs =  $480 - 420 = 60$
- 47.** Let the real value of an item = ₹  $x$   
 $\therefore$  95% of  $x = \frac{95}{100}x = \frac{19}{20}x$   
CP of an item =  $\frac{100}{133} \times \frac{19x}{20} = \frac{5}{7}x$   
 $\therefore$  Gain =  $x - \frac{5x}{7} = \frac{2x}{7}$   
 $\therefore$  Percentage profit =  $\frac{2x}{7} \times \frac{7}{5x} \times 100 = 40\%$
- 48.** Let cost of production of a table = ₹ 1000  
CP of whole sale =  $\frac{10}{100} \times 1000$   
 $= ₹ 100 = ₹ 1100$   
CP of retailer =  $1100 \times \frac{15}{100} + 1100 = 1100 + 165 = ₹ 1265$   
Hence, cost of production: = ₹ **1000**
- 49.** Let c.p be  $x$  and loss = 19%  
then s.p is  $x \times \frac{19}{100} = 119x/100$   
if profit is 17% then s.p is  $x \times \frac{17}{100} = 83x/100$   
 $119x/100 - 162 = 83x/100$   
after solving it we get  $x = 450$
- 50.** Passed in English = 75%  
Failed in English =  $100 - 75 = 25\%$   
Passed in Mathematics = 65%



Failed in Mathematics =  $100 - 65 = 35\%$   
 Fail in both subjects =  $15\%$   
 Total fail =  $A + B - C = 25 + 35 - 15 = 45\%$   
 Total number of students in the exam  
 $= \frac{100}{45} \times 495 = 1100$

51. Net effect =  $\frac{(100+15)(100-20)}{100}$   
 $= \frac{115 \times 80}{100} = 23 \times 4 = 92$   
 Loss =  $8\%$

52. Let the amount of water to be added be  $x$  liters.

We want the percentage of water to increase from  $10\%$  to  $20\%$  or percentage of non-water to decrease from  $90\%$  to  $80\%$ . Note that when we add  $x$  liters of water the amount of non-water in mixture in liters remains the same, so:

$0.9 \times 40 = 0.8(40+x)$   $0.9 \times 40 = 0.8(40+x) \rightarrow x = 5$

53. Let numbers be  $3x$ ,  $4x$  and  $5x$   
 $9x^2 + 16x^2 + 25x^2 = 1250$   
 $\Rightarrow 59x^2 = 1250$   
 $\Rightarrow x^2 = 25$   
 $\Rightarrow x = 5$

Numbers are  $15$ ,  $20$  and  $25$   
 $\therefore$  sum of numbers =  $15 + 20 + 25 = 60$

54. Total age of 3 boys =  $25 \times 3 = 75$  yr  
 $3x + 5x + 7x = 75 \Rightarrow 15x = 75 \Rightarrow x = 5$   
 Smallest age =  $3 \times 5 = 15$  yrs

55. Let number of hens =  $x$  and number of cows =  $y$   
 $\therefore x + y = 48$   
 and  $2x + 4y = 140$   
 Solving (i) and (ii), we get  $x = 26$ ,  $y = 22$   
 $\therefore$  Number of hens =  $26$

56. Let  $P = ₹x \Rightarrow A = ₹3x$   
 $SI = A - P = 3x - x = ₹2x$   
 $\therefore r = \frac{SI \times 100}{P \times t} = \frac{2x \times 100}{x \times 20} = 10$

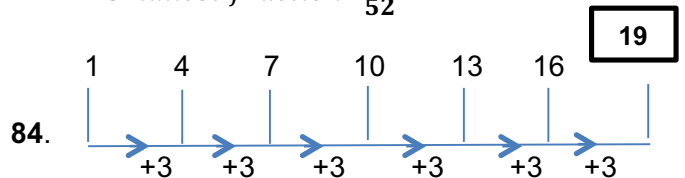
2<sup>nd</sup> Case  $P = ₹x \Rightarrow A = ₹2x$   
 $SI = 2x - x = x$   
 $r = 10\%$   
 $t = \frac{SI \times 100}{P \times r} = \frac{x \times 100}{x \times 10} = 10$

57.  $SI = \frac{800 \times 12 \times t}{100} = 960t \Rightarrow A = 8000 + 960t$   
 Again,  $SI = \frac{9100 \times 10 \times t}{100} = 910t$   
 $A = 9100 + 910t$   
 According to the question,  
 $960t + 8000 = 910t + 9100 \Rightarrow 50t = 1100$   
 $t = \frac{1100}{50} = 22$  yr

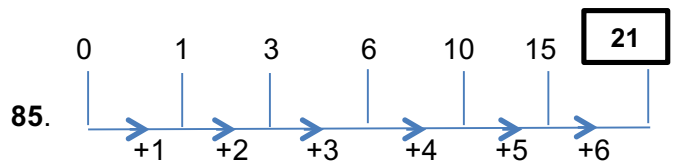
58. Let rate =  $R\%$  and time =  $R$  years.  
 Then,  $\left( \frac{1200 \times R \times R}{100} \right) = 432$   
 $\Rightarrow 12R^2 = 432$   
 $\Rightarrow R^2 = 36$   
 $\Rightarrow R = 6$ .

59. Let the number =  $x$ .  
 $\therefore$  Correct answer =  $\frac{x}{3}$   
 $3x = 29.7$   
 $x = \frac{29.7}{3} = 9.9$   
 $\therefore$  Correct answer =  $\frac{9.9}{3} = 3.3$

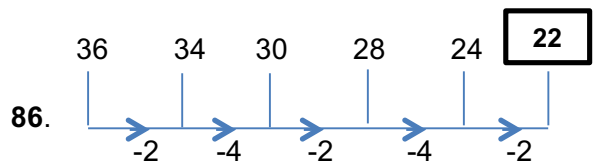
60.  $\frac{9}{13}, \frac{17}{26}, \frac{28}{39}, \frac{33}{52}$   
 LCM of  $13, 26, 39$  and  $52 = 156$   
 $\frac{12 \times 9, 102, 112, 99}{156}$   
 $\therefore$  Smallest fraction  $\frac{33}{52}$



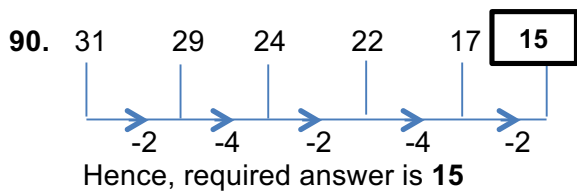
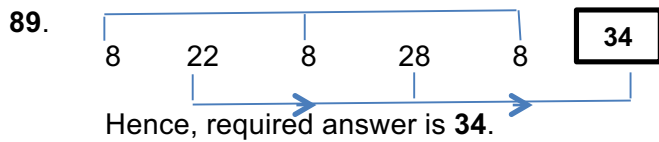
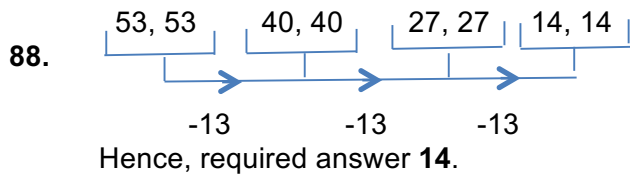
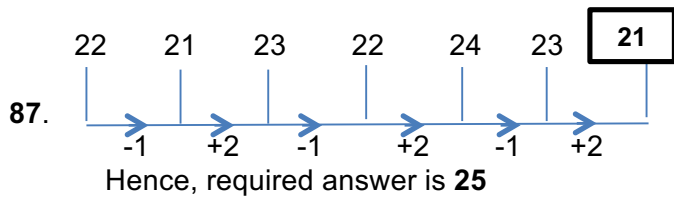
Hence, required answer is **19**



Hence, required answer is **21**



Hence, required answer is **22**



91. In very next figure, square dot (■) is increases by number one. And alignment of square dot (■) changes from top to bottom and vice-versa. Hence, required answer will contain five square dots (■) align along the bottom line.

92. In every next figure, square dot is decreases by one.

93. Alignment of lines changes from vertical to horizontal and vice-versa.

95. Image is rotating in clockwise sense by  $90^\circ$  in very next figure.

97. Here, answer figure is obtained by rotating target figure by  $180^\circ$  in any sense.

98. Answer figure is obtained by rotating target figure by  $90^\circ$  in any sense.



# Air Force Common Admission Test

## Solved Paper AFCAT – I/2011

**Directions:** Read the following passage carefully and answer the questions given below.

### Passage

We stand poised precariously and challengingly on the razor's edge of destiny. We are now at the mercy of atom bombs and the like which would destroy us completely if we fail to control them wisely. And wisdom in this crisis means sensitiveness to the basic values of life; it means a vivid realization that we are literally living in one world where we must either swim together or sink together. We cannot afford to tamper with man's single minded loyalty to peace and international understanding. Anyone, who does it is a traitor not only to man's past and present, but also to his future, because he is mortgaging the destiny of unborn generations.

- Q1.** From the tone and style of the passage it appears that the writer is-
- (a) a prose writer with a fascination for images and metaphors.
  - (b) a humanist with a clear foresight.
  - (c) a traitor who wishes to mortgage the destiny of future generations.
  - (d) unaware of the global power situation.

**Answer (b)**

- Q2.** The best way to escape complete annihilation in an atomic war is to-
- (a) work for international understanding and harmony.
  - (b) invent more powerful weapons.
  - (c) turn to religion.
  - (d) ban nuclear weapons.

**Answer (a)**

- Q3.** The phrase 'razor's edge of destiny' means a/an-
- (a) enigma that cuts through the pattern of life like the edge of a razor.
  - (b) critical situation that foreordains the future.
  - (c) sharp line of division that marks the alternative courses of action in the future.
  - (d) destiny with sharp edges.

**Answer (b)**

- Q4.** According to the writer, 'wisdom' on the razor's edge of destiny means:
- (a) awareness that we stand poised precariously on the razor's edge of destiny.
  - (b) determination to ban nuclear weapons.
  - (c) responsibility to the 'unborn generations'.
  - (d) awareness of the basic values of life.

**Answer (d)**

- Q5.** The author is concerned about the threat of nuclear weapons because he feels that-
- (a) a nuclear war will destroy human civilization.
  - (b) all countries are interlinked and one cannot escape the consequences of what happens to another country.
  - (c) the world is on the brink of disaster.
  - (d) his country is threatened by a nuclear war.

**Answer (a)**

**Directions:** In each of the following questions, find out which part of the sentence has an error. If there is no mistake, the answer is (d) "No error".

- Q6.** A person I met (a)/in the theatre (b)/was the playwright himself. (c)/No error (d).  
(a) (b) (c) (d)  
**Answer (a)**
- Q7.** They walked (a)/besides each other (b)/in silence. (c)/No error (d).  
(a) (b) (c) (d)  
**Answer (b)**
- Q8.** We returned to the guest house (a)/impressed by (b)/what we had seen. (c)/No error (d).  
(a) (b) (c) (d)  
**Answer (c)**
- Q9.** The judge was convinced (a)/that neither (b)/of the five accused was guilty. (c) /No error (d).  
(a) (b) (c) (d)  
**Answer (b)**
- Q10.** The municipality is going (a) /to built a new school (b)/near the park. (c)/ No error (d).  
(a) (b) (c) (d)  
**Answer (c)**

**Directions:** Pick out the most effective word from the given words to fill in the blank to make the sentence meaningfully complete.

- Q11.** His actions had \_\_\_\_\_ pain and suffering on thousands of people.  
(a) affected (b) imposed (c) inflicted (d) Deplored  
**Answer (c)**
- Q12.** The Government will \_\_\_\_\_ all resources to fight poverty.  
(a) Collect (b) exploit (c) harness (d) muster  
**Answer (c)**
- Q13.** The children \_\_\_\_\_ crackers to celebrate the victory of their team.  
(a) burst (b) fired (c) shot (d) released  
**Answer (a)**
- Q14.** I am \_\_\_\_\_ forward to our picnic scheduled in the next month.  
(a) seeing (b) looking (c) planning (d) thinking  
**Answer (b)**
- Q15.** I hope you must have \_\_\_\_\_ by now that failures are the stepping stones to success.  
(a) known (b) felt (c) decided (d) realized  
**Answer (d)**

**Directions:** In each of the following choose the word most similar in meaning to the word given in capitals.

- Q16.** CAUSED  
(a) Brought about (b) Brought forward (c) Brought out (d) Brought over  
**Answer (a)**

- Q17.** PLACID  
(a) Plain (b) Clear (c) Poor (d) Calm  
**Answer (d)**
- Q18.** AUDACIOUS  
(a) Obvious (b) Daring (c) Ardent (d) Affluent  
**Answer (b)**

**Directions:** Pick out the word that is most nearly the opposite in meaning to the word given in capitals.

- Q19.** MONOLOGUE  
(a) Prologue (b) Epilogue (c) Dialogue (d) Catalogue  
**Answer (c)**
- Q20.** DELETE  
(a) Imbibe (b) Improve (c) Insert (d) Inspire  
**Answer (c)**
- Q21.** AMBIGUITY  
(a) Certainty (b) Clarity (c) Rationality (d) Laxity  
**Answer (b)**

**Directions:** Choose the correct answer.

- Q22.** The First Battle of Panipat was fought between-  
(a) Akbar & Hemu (b) Babur and Ibrahim Lodhi  
(c) Akbar & Rana Sanga (d) Ahmad Shah Abdali & Marathas  
**Answer (b)**
- Q23.** Fa-hien visited India during the reign of-  
(a) Chandra Gupta Maurya (b) Bindusara (c) Chandra Gupta II (d) Bimbisara  
**Answer (c)**
- Q24.** Gandhiji's first experience with Satyagraha came up in-  
(a) Dandi (b) Champaran (c) Bengal (d) Natal  
**Answer (b)**
- Q25.** During whose tenure as the viceroy of India were the great Martyrs Bhagat Singh, Sukhdev and Rajguru hanged?  
(a) Lord Curzon (b) Lord Irwin (c) Lord Minto (d) Lord Chelmsford  
**Answer (b)**
- Q26.** The winner of the highest number of gold medals in an Olympic game is-  
(a) Mark Spitz (b) Matt Biondi (c) Michael Phelps (d) Jenny Thompson  
**Answer (c)**
- Q27.** 'Agha Khan Cup' is associated with the game of-  
(a) Football (b) Hockey (c) Badminton (d) Cricket  
**Answer (b)**

- Q28.** Usain Bolt, the 100 meters race world record holder, is from which country?  
(a) Jamaica (b) U.S.A. (c) Canada (d) Nigeria  
**Answer (a)**
- Q29.** Only two cricket players have taken 10 wickets in an innings. One is Anil Kumble. The other is-  
(a) Richard Hadlee (b) Muttiah Muralidharan (c) Jim Laker (d) Andy Roberts  
**Answer (c)**
- Q30.** 'Borlaug Award' is given every year to an Indian scientist for outstanding contribution in the field of-  
(a) Medicine (b) Space (c) Applied Science (d) Agriculture  
**Answer (d)**
- Q31.** The highest Indian gallantry award which could be given in peace time is-  
(a) Ashok Chakra (b) Param Vir Chakra  
(c) Kirti Chakra (d) Param Vishisht Seva Medal  
**Answer (a)**
- Q32.** The most successful Satellite Launch Vehicle of Indian Space Programme to launch commercial satellites is known as-  
(a) SLV (b) ASLV (c) PSLV (d) GSLV  
**Answer (c)**
- Q33.** Which one of the following soils is most suitable for cotton cultivation-  
(a) Red soil (b) Black soil (c) Loamy soil (d) Laterite soil  
**Answer (b)**
- Q34.** The name of indigenously built Light Combat Aircraft is-  
(a) Tejas (b) Chakra (c) Vajra (d) Trishul  
**Answer (a)**
- Q35.** The boundary between China and India is known as-  
(a) Mc Mohan Line (b) Radcliffe Line (c) Hindenberg Line (d) Line of Control  
**Answer (a)**
- Q36.** Equinox means two days in a year when day and night are almost equal. If March 21 is an equinox which is the next?  
(a) 09 October (b) 31 August (c) 23 September (d) 03 November  
**Answer (c)**
- Q37.** UNHCR, an organisation of United Nations, was established to provide/promote-  
(a) Primary Education (b) Health and Culture (c) Relief (d) Protection to refugees  
**Answer (d)**
- Q38.** Who authored the book 'Train to Pakistan'?  
(a) Salman Rushdie (b) Khushwant Singh (c) Mulk Raj Anand (d) Vikram Seth  
**Answer (b)**
- Q39.** Vitamin necessary to prevent prolonged bleeding is-  
(a) Vitamin A (b) Vitamin E (c) Vitamin D (d) Vitamin K  
**Answer (d)**
- Q40.** The famous classical dance form of Andhra Pradesh is-  
(a) Kathakali (b) Kuchipudi (c) Mohini Attam (d) Yakshaagna  
**Answer (b)**
- Q41.** The term 'Carbon Credit' is associated with-  
(a) Coal reserve of a nation (b) Reduction of Green House Gas emissions  
(c) Fossil Fuel reserve (d) Amount of CO<sub>2</sub> an individual emits in a year  
**Answer (d)**

- Q42.** In a 225 meter long yard 26 trees are planted at equal distance, one tree being at each end of the yard. What is the distance between two consecutive trees?  
 (a) 10 meters (b) 8 meters (c) 12 meters (d) 9 meters  
**Answer (d)**
- Q43.** A bonus of Rs. 1000 is divided among three employees. Rohit gets twice the amount Sachin gets. Sachin gets one fifth of what Gagan gets. How much amount does Gagan get?  
 (a) Rs. 500 (b) Rs. 625 (c) Rs. 750 (d) Rs. 120  
**Answer (b)**
- Q44.** A boy was asked to multiply a number by 25. Instead, he multiplied the number by 52 and got the answer 324 more than the correct answer. The number to be multiplied was-  
 (a) 12 (b) 15 (c) 25 (d) 32  
**Answer (a)**
- Q45.** The average age of 35 students in a class is 16 years. Out of these students the average age of 21 students is 14 years. The average age of remaining students is-  
 (a) 15 years (b) 17 years (c) 20 years (d) 19 years  
**Answer (d)**
- Q46.** After replacing an old member by a new member, it was found that the average age of five members of a club is the same as it was 3 years ago. What is the difference between the age of replaced member and new member?  
 (a) 2 years (b) 8 years (c) 15 years (d) 25 years  
**Answer (c)**
- Q47.** The average salary of all the workers in a workshop is Rs. 8000. The average salary of seven technicians is Rs. 12000 and average salary of others is Rs. 6000. The total number of workers in the workshop are-  
 (a) 20 (b) 21 (c) 22 (d) 23  
**Answer (b)**
- Q48.** In an examination a candidate has to get 35% of total marks to pass. In one paper he gets 62 out of 150 and in the second 35 out of 150. How many marks should he get out of 200 marks in the third paper to pass?  
 (a) 61 (b) 68 (c) 70 (d) 78  
**Answer (d)**
- Q49.** The salary of A & B together amounts to Rs. 2000. A spends 95% of his salary and B 85% of his salary. If their savings are same what is the salary of A?  
 (a) Rs. 750 (b) Rs. 1250 (c) Rs. 1500 (d) Rs. 1600  
**Answer (c)**
- Q50.** Out of the 1000 inhabitants of a town, 60% are male of whom 20% are literate. If, amongst all the inhabitants, 25% are literate, then what percentage of the females of the town are literate?  
 (a) 22.5 (b) 32.5 (c) 27.5 (d) 37.5  
**Answer (b)**
- Q51.** A trader mixes 26 Kg of rice at Rs. 20 per kg with 30 Kg rice of another variety costing Rs. 36 per Kg. If he sells the mixture at Rs. 30 per Kg his profit will be-  
 (a) -7% (b) 5% (c) 8% (d) 10%  
**Answer (b)**
- Q52.** The difference between the cost price and sale price is Rs. 240. If the profit is 20%, the selling price is-  
 (a) Rs. 1200 (b) Rs. 1440 (c) Rs. 1800 (d) Rs. 2440  
**Answer (b)**
- Q53.** Samant bought a microwave oven and paid 10% less than Maximum Retail Price(MRP). He sold it with 30% profit on his purchase cost. What percentage of profit did he earn on MRP?  
 (a) 17% (b) 20% (c) 27% (d) 32%  
**Answer (a)**

- Q54.** The price of a scooter and a TV are in the ratio of 7:5. If the scooter costs Rs. 8000 more than a TV set, then the price of TV set is-  
 (a) Rs. 20000 (b) Rs. 24000 (c) Rs. 32000 (d) Rs. 28000  
**Answer (a)**
- Q55.** The speed of three cars is in the ratio of 5:4:6. The ratio between the time taken by them to travel the same distance is-  
 (a) 5:4:6 (b) 6:4:5 (c) 10:12:15 (d) 12:15:10  
**Answer (d)**
- Q56.** The ratio between two numbers is 3:4. If each number is increased by 6 the ratio becomes 4:5. The difference between the numbers is-  
 (a) 1 (b) 3 (c) 6 (d) 8  
**Answer (c)**
- Q57.** Rs. 800 becomes Rs. 956 in 3 years at a certain rate of interest. If the rate of interest is increased by 4% what amount will Rs. 800 become in 3 years?  
 (a) Rs. 1020 (b) Rs. 1052 (c) Rs. 1282 (d) Rs. 1080  
**Answer (b)**
- Q58.** How much time will it take for an amount of Rs. 450 to gain Rs. 81 as interest, if rate of interest is 4.5% p.a on simple interest?  
 (a) 4.5 years (b) 3.5 years (c) 5 years (d) 4 years  
**Answer (d)**
- Q59.** At what rate of annual simple interest will Rs. 10000 double in 15 years?  
 (a) 5.5% (b) 8% (c) 6.75% (d) 7.25%  
**Answer (c)**
- Q60.** The value of (?) in the equation  $365.089 - ? + 89.72 = 302.35$  is-  
 (a) 152.456 (b) 152.459 (c) 153.456 (d) 153.459  
**Answer (b)**
- Q61.** A sum of Rs. 312 is divided among 60 boys and some girls in such a way that each boy gets Rs. 3.60 and each girl gets Rs.2.40. The number of girls are-  
 (a) 35 (b) 60 (c) 40 (d) 65  
**Answer (c)**

**Directions:** This is a test of your ability to understand words. For each question four options are given. There is only one correct answer for each question. Mark the correct answer.

- Q62.** INCITE means the same as  
 (a) short (b) delay (c) place (d) provoke  
**Answer (d)**
- Q63.** SUCCUMB means the same as  
 (a) aid (b) yield (c) check (d) oppose  
**Answer (b)**
- Q64.** ANOMALOUS means the same as  
 (a) disgraceful (b) formless (c) irregular (d) threatening  
**Answer (c)**
- Q65.** FORTUITOUS means the same as  
 (a) accidental (b) conclusive (c) courageous (d) prosperous  
**Answer (a)**
- Q66.** PERMEABLE means the same as  
 (a) flexible (b) variable (c) soluble (d) penetrable  
**Answer (d)**



- Q67.** CONVOY means the same as  
 (a) carry (b) flock (c) standard (d) escort  
**Answer (d)**
- Q68.** CITE means the same as  
 (a) illustrate (b) reveal (c) recollect (d) quote  
**Answer (d)**
- Q69.** VOCATION means the same as  
 (a) hobby (b) occupation (c) post (d) designation  
**Answer (b)**

**Directions:** Each of the following questions has an underlined/capitalized word. You are to indicate which one of the four choices most nearly means the same as the underlined/capitalized word.

- Q70.** The benefits of the plan are likely to be transitory.  
 (a) significant (b) obvious (c) temporary (d) cumulative  
**Answer (c)**
- Q71.** The hikers found several crevices in the rocks.  
 (a) cracks (b) minerals (c) canals (d) puddles  
**Answer (a)**
- Q72.** BOOK is to CHAPTER as BUILDING is to  
 (a) ELEVATOR (b) LOBBY (c) ROOF (d) STOREY  
**Answer (d)**
- Q73.** CARROT is to VEGETABLE as  
 (a) DOGWOOD is to OAK (b) FOOT is to PAW  
 (c) PEPPER is to SPICE (d) SHEEP is to LAMB  
**Answer (c)**
- Q74.** CONCAVE is to CONVEX as  
 (a) CAVITY is to MOUND (b) HILL is to HOLE  
 (c) OVAL is to OBLONG (d) ROUND is to POINTED  
**Answer (a)**
- Q75.** GOWN is to GARMENT as GASOLINE is to  
 (a) COOLANT (b) FUEL (c) OIL (d) LUBRICANT  
**Answer (b)**
- Q76.** HYPER- is to HYPO- as  
 (a) DIASTOLIC is to SYSTOLIC (b) OVER is to UNDER  
 (c) SMALL is to LARGE (d) STALE is to FRESH  
**Answer (b)**
- Q77.** IMMIGRATION is to EMIGRATION as  
 (a) ARRIVAL is to DEPARTURE (b) FLIGHT is to VOYAGE  
 (c) LEGAL is to ILLEGAL (d) MIGRATION is to TRAVEL  
**Answer (a)**
- Q78.** OCTAGON is to SQUARE as HEXAGON is to  
 (a) POLYGON (b) PYRAMID (c) RECTANGLE (d) TRIANGLE  
**Answer (d)**

Q79. TELL is to TOLD as

- (a) RIDE is to RODE
- (b) SINK is to SANK
- (c) WEAVE is to WOVE
- (d) WEEP is to WEPT

Answer (d)

Q80. SHEEP is to LAMB as HORSE is to

- (a) COLT
- (b) DOE
- (c) FAWN
- (d) MARE

Answer (a)

Q81. IGNORE is to OVERLOOK as

- (a) AGREE is to CONSENT
- (b) CLIMB is to WALK
- (c) DULL is to SHARPEN
- (d) LEARN is to REMEMBER

Answer (a)

Q82. FREQUENTLY is to SELDOM as

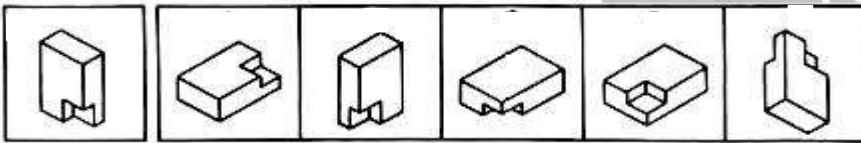
- (a) ALWAYS is to NEVER
- (b) EVERYBODY is to EVERYONE
- (c) GENERALLY is to USUALLY
- (d) OCCASIONALLY is to CONSTANTLY

Answer (a)

**Directions:** This test is designed to test your ability to visualize and manipulate objects in space. In each question, you are shown a picture of a block. To the right of the pictured block, there are five choices shown as A, B, C, D and E. Select the choice containing a block that is just like the pictured block at the left although turned in a different position.

Q83.

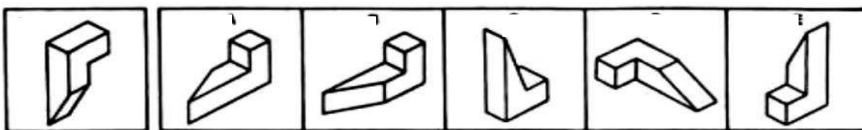
A B C D E



Answer (d)

Q84.

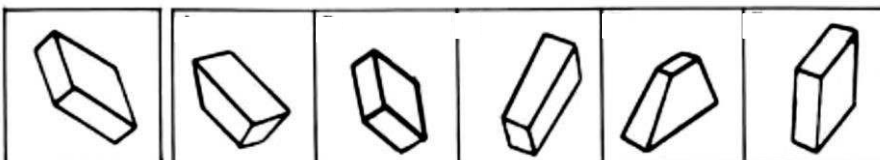
A B C D E



Answer (a)

Q85.

A B C D E



Answer (e)

Q86.

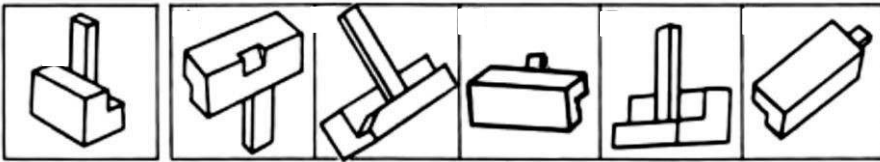
A

B

C

D

E



Answer (b)

Q87.

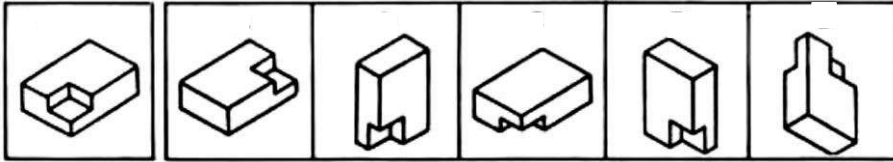
A

B

C

D

E



Answer (d)

Q88.

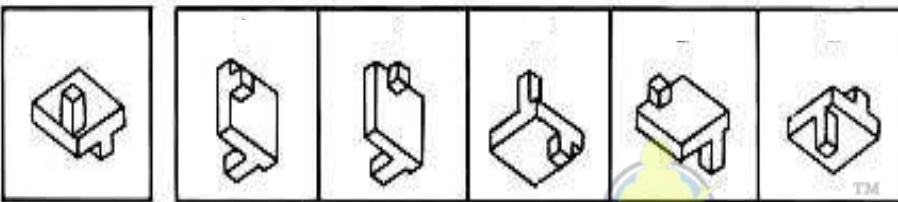
A

B

C

D

E



Answer (e)

Q89.

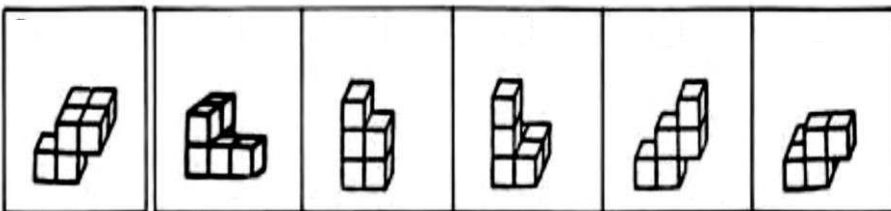
A

B

C

D

E



Answer (e)

Q90.

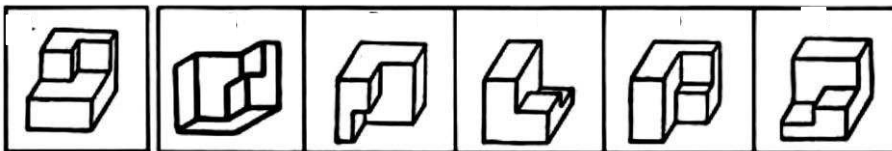
A

B

C

D

E



Answer (e)

Q91.

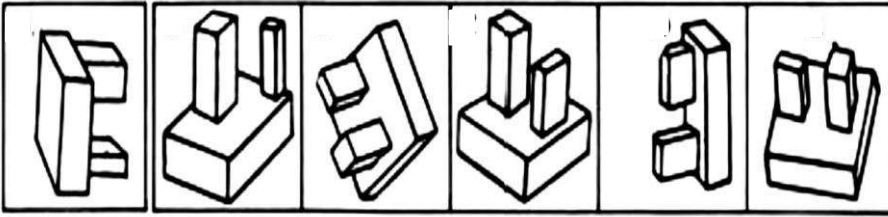
A

B

C

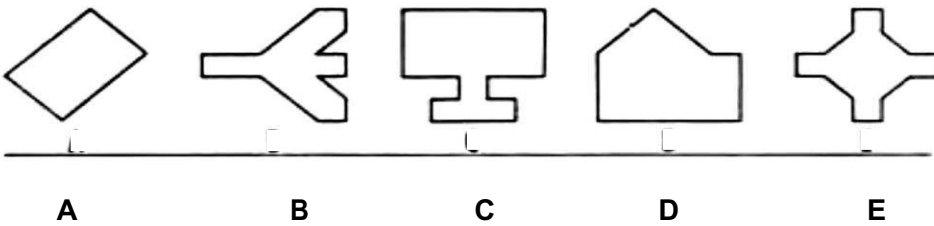
D

E

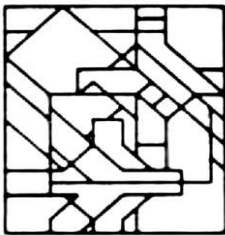


Answer (c)

**Directions:** *The hidden figures test is designed to perceive simple figures in complex drawings. At the top of each section are five figures lettered A, B, C, D, and E. Below these are several numbered drawings. You must determine which lettered figure is embedded in each of the numbered drawings.*

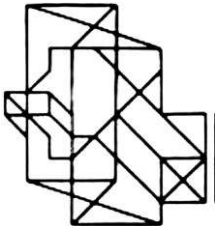


Q92.



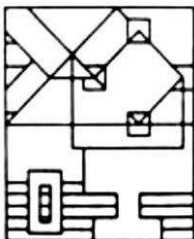
Answer (e)

Q93.



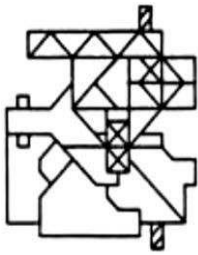
Answer (a)

Q94.



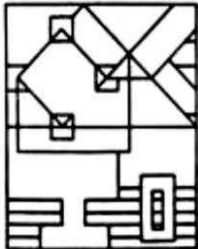
Answer (a)

Q95.



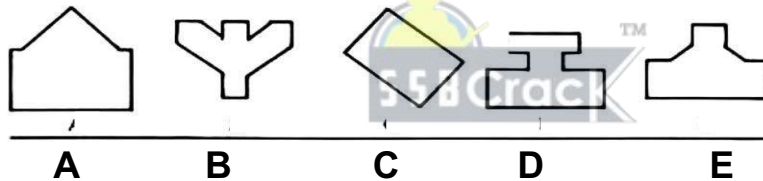
Answer (a)

Q96.

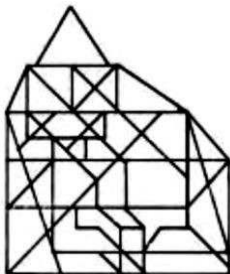


Answer (d)

**Directions:** *The hidden figures test is designed to perceive simple figures in complex drawings. At the top of each section are five figures lettered (a), (b), (c), (d) and (e). Below these are several numbered drawings. You must determine which lettered figure is embedded in each of the numbered drawings.*

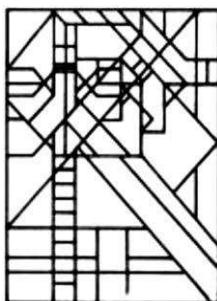


Q97.



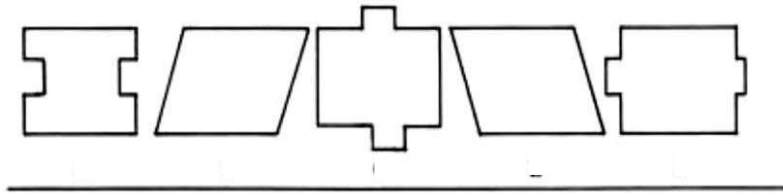
Answer (a)

Q98.

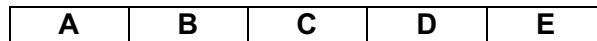
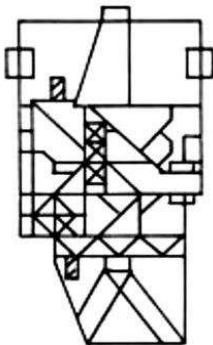


Answer (c)

**Directions:** The hidden figures test is designed to perceive simple figures in complex drawings. At the top of each section are five figures lettered (a), (b), (c), (d) and (e). Below these are several numbered drawings. You must determine which lettered figure is embedded in each of the numbered drawings.

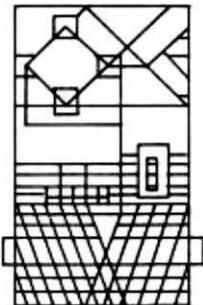


Q99.



Answer (e)

Q100.



Answer (d)

## Hints and Solutions

### Q. No

22. The first battle of Panipat was fought in 1526 between Babur and Ibrahim Lodhi.

23. Fa-hien visited India during 405-11 AD. It was a reign of Chandragupta II.

24. Gandhiji took part in Champaran peasant movement in 1917. Here, he introduced Satyagraha first time

25. Bhagat Singh, Sukhdev and Rajguru were hanged in 1931. During this period, Lord Irwin was the viceroy of India.

26. Michael Phelps won the highest number of gold medals (8 in swimming) in a single Olympic at Beijing.

27. Agha Khan Cup is associated with hockey.

29. Anil Kumble is the first Indian and second cricketer in the world, who has taken 10 wickets in an innings. The first who took 10 wickets was Jim Laker.

31. Ashok Chakra is the highest gallantry award that is given during peace time.

33. Black soil is rich in iron, lime, aluminum, potash and calcium and lacks nitrogen, phosphorous and humus. It is most suitable for cotton cultivation.

35. McMahon Line is a boundary line between India and China. China does not accept this as a boundary line.

37. UNHCR is United Nations High Commissioner for Refugees. (It was established in 1951).

40. Kuchipudi is famous classical dance from of Andhra Pradesh.

42.  $225 + 25 = 9m$

$\therefore$  Distance between two consecutive trees = 9m.

43. Let Gagan's amount = ₹2x

Sachin's amount = ₹  $\frac{x}{5}$

Rohit's amount = ₹  $\frac{2x}{5}$

$$x + \frac{x}{5} + \frac{2x}{5} = 1000 \Rightarrow 8x = 1000 \Rightarrow x = \text{₹}625$$

44. Let the number = x

$$52x - 25x = 324$$

$$\Rightarrow 27x = 324 \Rightarrow x = 12$$

45. Total age of 35 Students =  $35 \times 16 = 560$  yr

Total age of 21 students =  $21 \times 14 = 294$  yr

Total age of 14 students =  $560 - 294 = 266$ yr

Average age of 14 students =  $\frac{266}{14} = 19$ yr

46. Difference = 15 yr

47. Let total number of workers = x

Total salary of 7 workers =  $7 \times 12000 = \text{₹}8400$

Total salary of remaining (x-7) = 6000

According to the question,

$$8000x = 6000x - 42000 + 84000$$

$$\Rightarrow 2000x = 42000 \Rightarrow x = 21$$

Hence, total number of workers = 21

48. Total marks to pass =  $\frac{35}{100} \times 500 = 175$

Total obtained marks in two papers =  $62 + 35 = 97$

In third paper marks should be =  $175 - 97 = 78$

49. Let, A's salary = ₹x

B's salary = ₹(2000 - x)

A's saving = 5% of x

B's saving = 15% of (2000 - x)

According to the question,

5% of x = 15% of (2000 - x)

$$\Rightarrow \frac{5}{100}x = \frac{15}{100}(2000 - x)$$

$$\Rightarrow x = 3(2000 - x) = 6000 - 3x \Rightarrow 4x = 6000$$

$$\Rightarrow x = \frac{6000}{4} = 15000$$

$\therefore$  A's salary = ₹ 1500

50. Number of males = 60% of 1000 = 600. Number of females = (1000 - 600) = 400.

Number of literates = 25% of 1000 = 250.

Number of literate males = 20% of 600 = 120.

Number of literate females = (250 - 120) = 130.

Required percentage =  $(\frac{130}{400} \times 100) \% = 32.5 \%$

51. C.P. of 56 kg rice = Rs. (26 x 20 + 30 x 36) = Rs. (520 + 1080) = Rs. 1600.

S.P. of 56 kg rice = Rs. (56 x 30) = ₹. 1680.

$$\text{Gain} = \left( \frac{80}{1600} \times 100 \right) \% = 5\%$$

52. Let the C.P be Rs.x

Then, S.P = 120% of ₹. x = ₹.(120/100) x

$$= ₹. 6x/5$$

$$\therefore 6x/5 - x = 240$$

$$x = 1200$$

$$\therefore \text{S.P} = \text{Rs. } (6/5 \times 1200) = \text{₹.}1440.$$

53. Let, MRP = ₹.100

CP = 100 - 10 = ₹. 90

SP =  $90 + \frac{30}{100} \times 90 = 90 + 27 = \text{₹.}117$

Profit per cent on MRP =  $117 - 100 = 17\%$

54. As the ratio is 7:5, let us assume the prices of scooter be 7x and tv set be 5x. the difference

between the two prices is  $7x-5x=2x$ , it is given as 8000.

$2x=8000$  implies  $x=4000$ .

so price of scooter is  $7x=7*4000=28000$

and price of tv set is  $5x=5*4000=20000$

55. Speed 5 : 4 : 6

$$\text{Time } \frac{1}{5} : \frac{1}{4} : \frac{1}{6} \text{ or } \frac{12:15:10}{260}$$

56. >Let the number be  $3x$  and  $4x$ . Then  $(3x/4x) = 3/4$

Again,  $(3x+6/4x+6) = 4/5$  ( given that when both numbers are increased by 6 the ratio becomes 4/5)

$$5(3x+6) = 4(4x+6)$$

$$\Rightarrow 15x + 30 = 16x + 24$$

$$\Rightarrow x = 6$$

Thus, first number is  $6 * 3 = 18$

second number is  $4*6 = 24$

83. Required figure is obtained by changing the position of question figure from vertical to horizontal.

84. In all other options, corner cut is along the right side line. According to the question, corner cut should be along left line.

87. Required figure is obtained by vertical orientation of the question figure.

90. Here, answer figure is obtained by rotating the question figure.

91. Here, thinner tower is on left side of thicker tower.

$$\text{S.I.} = \text{Rs. } (956 - 800) = \text{Rs. } 156.$$

$$\text{Rate} = \left( \frac{100 * 156}{800 * 3} \right) \% = 6 \frac{1}{2} \%.$$

$$\text{New rate} = \left( 6 \frac{1}{2} + 4 \right) \% = 10 \frac{1}{2} \%.$$

$$\text{New S.I.} = \text{Rs. } \left( 800 * \frac{21}{2} * \frac{3}{100} \right) = \text{Rs. } 252.$$

$$\therefore \text{New amount} = \text{Rs. } (800 + 252) = \text{Rs. } 1052.$$

$$58. t = \frac{81x100x2}{450x9} = 4 \text{ yr}$$

$$59. r = \frac{S1x100}{Pxt} = \frac{10000x100}{10000x15} = \frac{20}{3} = 666\% \cong 6.75\%$$

$$60. 365.089 - x + 89.72 = 302.35$$

$$454.809 - 302.350 = x \Rightarrow x = 152.459$$

$$61. 60x 3.60 = ₹ 216$$

$$312 - 216 = ₹ 96$$

$$\therefore \text{Number of girls} = \frac{96}{2.40} = \frac{96x100}{240} = 40$$





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