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Directions (1–5): This data is regarding total number of employees working in Administration (admin), Operations (Ops.) and other departments of corporate divisions of Companies A and B.

The total number of employees working in both the companies together is 4800. The respective ratio of number of employees in Companies A and B is 5 : 7. Each employee works in only one of the 3 Departments

i.e. "ops", "Admin" and "others".

In company A, 70% of the total employees are males. 60% of the total male employees work in 'Ops' out of the remaining male employees, $\frac{1}{8}$ th work in 'Admin'. Out of the total female employees, 24% work in 'Admin' and $\frac{5}{8}$ th of the remaining female employees work in 'Ops'.

In company B, 80% of the total employees are males. 65% of the total male employees work in 'Ops'. Number of male employees who work in other departments in Company B is 20% more than the male employees who work in 'Other Departments' in company A. Number of female employees who work in Ops in Company B are less than the number of male employees who work for 'Ops' in the same company by 75%. Out of the remaining female employees, $\frac{1}{4}$ work in 'Admin'.

Q1. What per cent of the total number of male employees in company A work in 'other' departments?

| 1 | | |
|--------|--------|--------|
| (a) 45 | (b) 25 | (c) 30 |
| (d) 35 | (e) 40 | |
| | | |

Q2. What per cent the total number of female employees in company B work in administration department?

| (a) 18.5 | (b) 8.75 | (c) 14 |
|----------|----------|--------|
| (d) 16 | (e) 19 | |

Q3. What is the total number of female employees who work on Ops in Company A and B together?

| (a) 681 | (b) 781 | (c) 689 |
|---------|---------|---------|
| (d) 649 | (e) 788 | |

Q4. What is the difference between the average number of males working in 'Admin' in both the companies together and average number of females working 'Other Departments' in both the companies together?

| (a) 26 | (b) 36 | (c) 16 |
|--------|--------|--------|
| (d) 24 | (e) 14 | |

Q5. In company B, what is the respective ratio between the total number of employees (both male and female) who work in 'Admin' and the total number of employees (both male and female) who work in 'Other Department' in the same company?

| (a) 2 : 3 | (b) 1 : 3 |
|-----------|-----------|
| (d) 3 : 5 | (e) 1 : 5 |

(c) 1 : 4

Solution(1-5):

For company A, Total = 2000

| | Male (1400) | Female (600) |
|-------|-------------|--------------|
| Ops | 840 | 285 |
| Admin | 70 | 144 |
| Other | 490 | 171 |

For Company B –, Total = 2800

| | Male (2240) | Female (560) |
|-------|-------------|--------------|
| Ops | 1456 | 364 |
| Admin | 196 | 49 |
| Other | 588 | 147 |

S1. Ans.(d)

Sol. Required % = $\frac{490}{1400} \times 100 = 35\%$

S2. Ans.(b) Sol.Required % = $\frac{49}{560}$ × 100 = 8.75%

S3. Ans.(d) Sol.Required no. of female = 285 + 364 = 649

S4. Ans.(a) Sol. Required difference $=\frac{171+147}{2} - \frac{70+196}{2}$ = 159 - 133 = 26

S5. Ans.(b) Sol. Required Ratio = (196 + 49) : (588 + 147) = 245 : 735 = 1 : 3



Directions (6-10): Study the table and answer the given questions.

Data related to Human Resource Dept. of a multinational company (X) which has 145 offices across 8 countries.

| Countries | Offices | Total Employees | Respective Ratio of male & female employees | % of post graduate |
|-----------|---------|-----------------|--|--------------------|
| А | 16 | 2568 | 5:7 | 75 |
| В | 18 | 2880 | 11:5 | 65 |
| С | 14 | 2310 | 10:11 | 40 |
| D | 22 | 3575 | 3:2 | 60 |
| Е | 13 | 2054 | 7:6 | 50 |
| F | 17 | 2788 | 20:21 | 75 |
| G | 24 | 3720 | 8:7 | 55 |
| Н | 21 | 3360 | 8:6 | 80 |

Q6. The number of male post graduate employees in country H is 1800. If number of female post graduates increase by 50% in the next year, what % of female employees in that particular country is post graduate? (Given that all other data remain same)

| (a) 76.8% | (b) 74% |
|-----------|---------|
| (d) 90% | (e) 80% |

| (d) | 90% |
|---------|-----|
| · · - / | |

Q7. In which country, is the percentage of women employees to number of employees (both male & female) is ranked third lowest?

| (a) E | (b) B | (c) H |
|-------|-------|-------|
| (d) F | (e) A | |

Q8. What is the ratio between total number of male employees in countries B and H together and total number of post graduate employees in same countries?

| (a) 76 : 65 | (b) 86 : 85 | (c) 75 : 76 |
|-------------|-------------|-------------|
| (d)65 : 76 | (e)12:33 | |

Q9. What is the difference between average number of post graduate employees in countries A, B and D together and average number of post graduate employees in countries F, G and H together?

| (a) 294 | (b) 282 |
|---------|---------|
| (d) 280 | (e) 200 |

Q10. Which country has the 2^{nd} highest number of average employees per office?

| (a) D | (b) H |
|-------|-------|
| (d) A | (e) F |

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(c) 92.5%

(c) 284

(c) G

S6. Ans.(c) Sol. Graduate = $3360 \times \frac{4}{5} = 2688$ Female graduate = 2688 - 1800 = 888Female employee = $3360 \times \frac{6}{14} = 1440$ Female graduate next year = $888 \times \frac{3}{2} = 1332$ % of female graduate $=\frac{1332}{1440} \times 100 = 92.5\%$ S7. Ans.(c) Sol. $A \Rightarrow \frac{7}{12} \times 100 = 58.34\%$ $B \Rightarrow \frac{5}{16} \times 100 = 31.25\%$ $C \Rightarrow \frac{11}{21} \times 100 = 52.4\%$ $D \Rightarrow \frac{2}{5} \times 100 = 40\%$ $E \Rightarrow \frac{6}{13} \times 100 = 46.15\%$ $F \Rightarrow \frac{21}{41} \times 100 = 51.22\%$ $G \Rightarrow \frac{7}{15} \times 100 = 46.67\%$ $H \Rightarrow \frac{6}{14} \times 100 = 42.86\%$ Clearly, H is the third lowest. S8. Ans.(d) Sol. $\frac{\frac{11}{16} \times 2880 + \frac{8}{14} \times 3360}{2880 \times \frac{65}{100} + 3360 \times \frac{4}{5}} = \frac{1980 + 1920}{1872 + 2688} = \frac{3900}{4560}$ = 65:76S9. Ans.(a) Sol. $A \Rightarrow 2568 \times \frac{3}{4} = 1926 \qquad F \Rightarrow 2788 \times \frac{3}{4} = 2091$ B ⇒2880 × $\frac{65}{100}$ = 1872 G ⇒3720 × $\frac{55}{100}$ = 2046 D ⇒3575 × $\frac{3}{5}$ = 2145 H ⇒3360 × $\frac{4}{5}$ = 2688 F + G + H = 6825A + B + D = 5943Diff. = 6825 - 5943 = 882 Avg. $=\frac{882}{2}=294$ S10. Ans.(e) Sol. $A \Rightarrow \frac{2568}{16} = 160.5 \qquad B \Rightarrow \frac{2880}{18} = 160$ $D \Rightarrow \frac{3575}{22} = 162 \qquad E \Rightarrow \frac{2054}{13} = 158$ $H \Rightarrow \frac{3360}{21} = 160 \qquad G \Rightarrow \frac{3720}{24} = 155$ C ⇒ $\frac{2310}{14}$ = 165 F ⇒ $\frac{2788}{17}$ = 164 2^{nd} highest avg. no. of employees per office = F

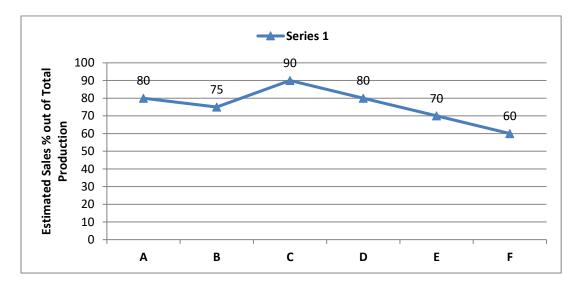
Directions (11-15): The table given below shows the no. of units produced of six different items by a company, the mark-up % on each unit and the discount offered on the marked-up price of each unit.

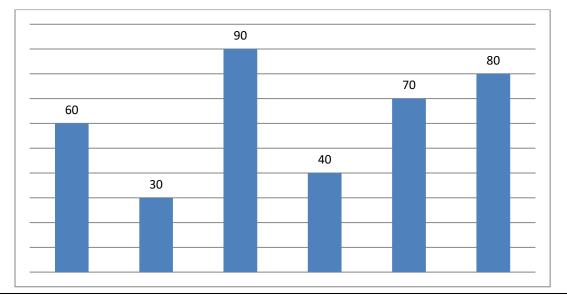
The cost price of all the items is same and fixed at Rs 100.

The line graph shows the estimated percentage of items sold by the company on the normal discounted price.

The bar graph shows the percentage of cost price at which the company sold the remaining no. of items.(means the company sold the remaining no. of items at a price lower than the cost price)

| | Α | В | С | D | Ε | F |
|------------|-----|-----|----|-----|-----|-----|
| Production | 200 | 160 | 80 | 140 | 180 | 150 |
| Unit | | | | | | |
| Mark Up % | 50 | 60 | 80 | 40 | 60 | 45 |
| Discount % | 20 | 25 | 40 | 15 | 20 | 20 |





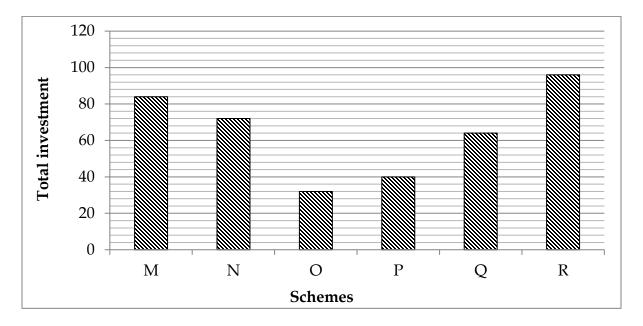
| Q11. Find profit % of A and B together in year 2015if it is known that B sold only 90% of goods of what he actually estimated to sell in year 2015. | | | | |
|---|--|---|--|--|
| (a) 0.33% | (b) 0.44% | (c) 0.55% | | |
| (d) 0.60% | (e) None of these | | | |
| | t. Apart from that everything el | nt and which lead to increasein its se remains same then what is the (c) 512 | | |
| (d) 516 | (e) 520 | | | |
| - | r 2015. By how much % profit | due to which its sales reduced to will increase or decrease in 2016 (c) Increased by 203% | | |
| (d) Increased by 207% | (e) Decreased by 207% | | | |
| together in year 2015 | | B and C together and D, E and F | | |
| (a) 750 | (b) 800 | (c) 900 | | |
| (d) 1000 | (e) None of these | | | |
| 0.015 What is the profit % of all t | he companies together in year 20 | 15 (Approvimately) | | |
| (a) 4.9% | (b) 4.6% | (c) 5.1% | | |
| (d) 4.7% | (e) 5.4% | | | |
| S11. Ans.(a) Sol. | 50 80 | | | |
| A's selling price per unit = $\frac{100 \times 15}{100}$ | $\frac{100}{100} \times \frac{100}{100} = 120$ | | | |
| A's sales in unit = $200 \times \frac{80}{100} = 16$ | 50 | | | |
| A's SP of 160 Unit = $160 \times 120 = 19200$ | | | | |
| A's SP of Remaining unit = $(200 - 160) \times 100 \times \frac{60}{100} = 2400$ | | | | |
| B's Selling price per unit = $\frac{100 \times 160}{100} \times \frac{75}{100} = 120$ | | | | |
| B's Sales in Unit = $\left(160 \times \frac{75}{100}\right) \times \frac{90}{100} = 108$ | | | | |
| B's total SP = $108 \times 120 + \left[(160 - 108) \times 100 \times \frac{30}{100} \right] = 14520$ | | | | |
| Total SP (A + B) = $19200 + 2400 + 14520 = 36120$ | | | | |
| Total CP $(A + B) = (200 + 160) \times 100 = 36000$ | | | | |
| Required Profit % = $\left(\frac{36120 - 36000}{36000}\right)$ | 100 = 0.33% | | | |

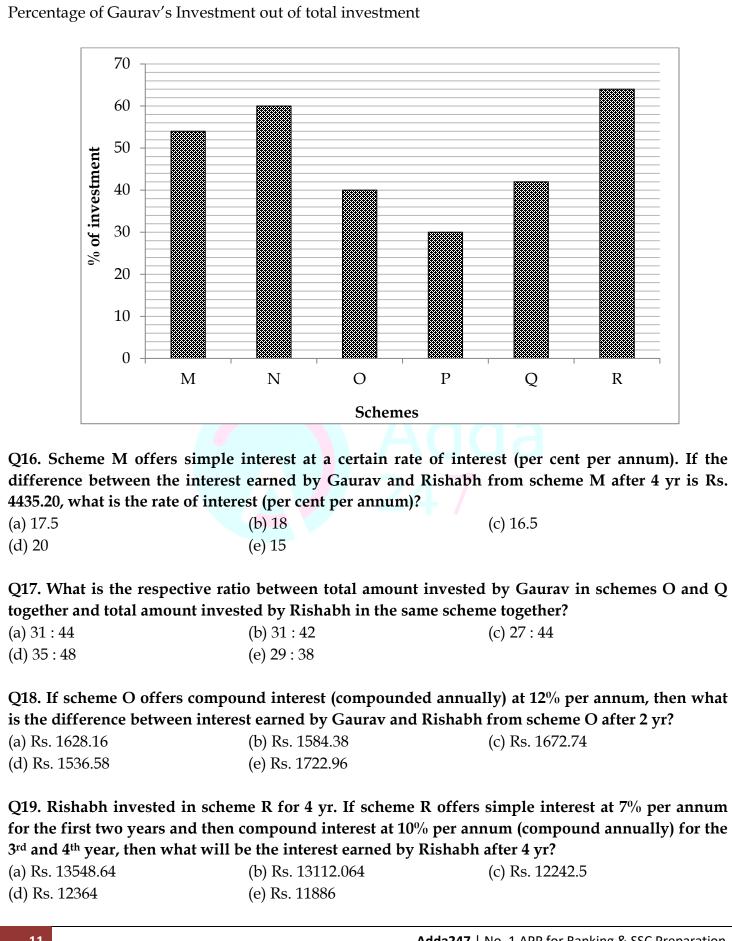
S12. Ans.(a) Sol. E's total SP in year 2016 $= \left[\left(100 \times \frac{160}{100} \right) \times \frac{70}{100} \right] \times \left(180 \times \frac{90}{100} \right) + \left(100 \times \frac{70}{100} \times \frac{180 \times 10}{100} \right)$ = 19404E's total SP in year 2015 $= \left[\left(100 \times \frac{160}{100} \right) \times \frac{80}{100} \right] \times \left(180 \times \frac{70}{100} \right) + \left(100 \times \frac{70}{100} \times \frac{(180 \times 30)}{100} \right)$ = 19908Required answer = 19908 - 19404= 504S13. Ans.(c) Sol. SP of C in year 2016 $= \left[\left(100 \times \frac{180}{100} \right) \times \frac{70}{100} \right] \times \left(80 \times \frac{80}{100} \right) + \left(80 \times \frac{20}{100} \right) \times \left(100 \times \frac{90}{100} \right)$ = 9504Profit of C in year $2016 = 9504 - 80 \times 100$ = 1504SP of C in year $2015 = \left[\left(100 \times \frac{180}{100} \right) \times \frac{60}{100} \right] \times \left(80 \times \frac{90}{100} \right) + \left(80 \times \frac{10}{100} \right) \times \left(100 \times \frac{90}{100} \right) \right]$ = 8496Profit of C in year $2015 = 8496 - 80 \times 100$ = 496Required % = $\frac{1504-496}{496}$ = 203.22% ~ 203% S14. Ans.(c) Sol. A's SP in year 2015 $= \left(200 \times \frac{80}{100}\right) \times \left(100 \times \frac{150}{100} \times \frac{80}{100}\right) + \left(200 \times \frac{20}{100}\right) \times \left(100 \times \frac{60}{100}\right)$ = 21600B's SP in year 2015 = $= \left(160 \times \frac{75}{100}\right) \times \left(100 \times \frac{160}{100} \times \frac{75}{100}\right) + \left(160 \times \frac{25}{100}\right) \times \left(100 \times \frac{30}{100}\right)$ = 15600C's SP in year 2015 s $= \left(80 \times \frac{90}{100}\right) \times \left(100 \times \frac{180}{100} \times \frac{60}{100}\right) + \left(80 \times \frac{10}{100}\right) \times \left(100 \times \frac{90}{100}\right)$ = 8496

Total (A + B + C) = 21600 + 15600 + 8496 = 45696Profit = 45696 - 20000 - 16000 - 8000 = 1696 D's SP in year $2015 = \left(140 \times \frac{80}{100}\right) \times \left(100 \times \frac{140}{100} \times \frac{85}{100}\right) + \left(140 \times \frac{20}{100}\right) \times \left(100 \times \frac{40}{100}\right)$ = 14448E's SP in year $2015 = (180 \times \frac{70}{100}) \times (100 \times \frac{160}{100} \times \frac{80}{100}) + (180 \times \frac{30}{100}) \times (100 \times \frac{70}{100})$ = 19908F's SP in year $2015 = (150 \times \frac{60}{100}) \times (100 \times \frac{145}{100} \times \frac{80}{100}) + (150 \times \frac{40}{100}) \times (100 \times \frac{80}{100})$ = 15240Total SP (D + E + F) = 1448 + 19908 + 15240= 49596Profit = 49596 - 14000 - 18000 - 15000 = 2596Required answer = 2596 - 1696= 900S15. Ans.(d) Sol. total profit = 2596+ 1696 = 4292Total CP = 20000+ 16000+ 8000 + 14000 + 18000+ 15000 = 91000Required profit $\% = \frac{4292}{91000} \times 100$ $= 4.716 \sim 4.72\%$

Direction (16-20): Study the graph to answer the questions.

Total investment (in Rs. thousand) of Gaurav and Rishabh in 6 schemes (M, N, O, P,Q and R) investment

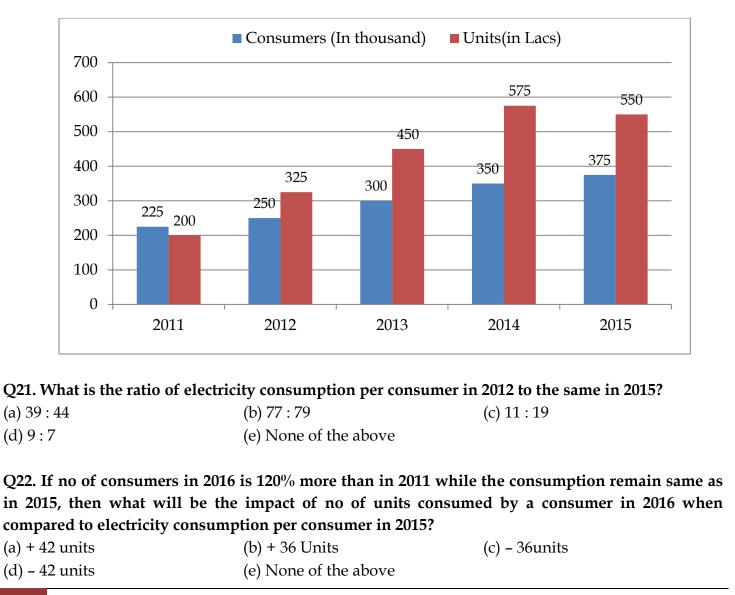




| Q20. Amount invested by Gaurav in scheme S is equal to the amount invested by him in scheme N. The rate of interest per annum of schemes S and N are same. The only difference is scheme S offers compound interest (compounded annually), whereas the scheme N offers simple interest. If the difference between the interest earned by Gaurav from both the schemes after 2 yr is Rs. 349.92, then what is the rate of interest? (a) 9% (b) 5% (c) 13% (d) 11% (e) 7% | | | |
|---|--|--|--|
| (u) 11/0 | | | |
| S16. Ans.(c) Sol. | | | |
| Amount invested by Gaurav in s = Rs. 45360 | scheme M = 54% of 8400 |) | |
| ∴ Amount invested by Rishabh i = Rs. 38640 | n scheme M = 84000 – 45 | 5360 | |
| Let the required rate be r% per a = $\frac{45360 \times r \times 4}{100} - \frac{38640 \times r \times 4}{100}$ | nnum. Then, $\frac{1}{2} = 4435.20$ | | |
| $\Rightarrow 6720 \times r \times 4 = 443520$ $\Rightarrow r = 16.5\%$ | | | |
| S17. Ans.(a) Sol. Required ratio = (Total amount invested by Gaurav in schemes O and Q together) : (Total amount invested by Rishabh in schemes O and Q together) = (40% of 32000 + 42% of 64000) : (60% of 32000 + 58% of 64000) = 39680 : 56320 = 31 : 44 | | | |
| S18. Ans.(a) Sol. | | | |
| Difference of amount invested b Scheme O = 60% of $32000 - 40\%$ = Rs. 6400 | 5 | AN IIT/IIM ALUMNI COMPANY | |
| ∴ Required difference in their int | terest | | |
| $= 6400 \left[\left(1 + \frac{12}{100} \right)^2 - 1 \right] = 6400$ | $\times 0.2544 = Rs. 1628.16$ | युनाइटेड इंडिया UNITED INDIA ASSISTANT | |
| S19. Ans.(b) Sol. | | PRELIMS | |
| Amount invested by Rishabh in = $(100 - 64)$ % of 96000 = 36% of 9 Then, total interest earned by Ris | 96000 = Rs. 34560 | 10 FULL LENGTH MOCKS Bilingual | |
| $= \frac{34560 \times 7 \times 2}{100} + 21\% \text{ of } (3456)$ $= 4838.40 + 8273.664 = \text{Rs. } 13112.$ | 0 + SIoffirst 2 years) .064 | Price : ₹349/- visit: store.adda247.com | |

S20. Ans.(a) Sol. Amount invested by Gaurav in each of scheme S and N = 60% of 72000 = 43200 Let the rate of interest be r% per annum. Then, according to the question, $349.92 = \frac{43200 \times r^2}{100^2}$ or, $r^2 = 81$ \therefore r = 9%

Directions (21–25): The graph suggests the no. of consumers and consumption of electricity units in five years. Electricity units are given in Lacs while the no. of consumers aregiven in thousand. Read the graph and answer the question.



| · · · | in 2012 will be approximate | ely how many times the total no. of | |
|---|---|--|--|
| consumer all over the years? (a) 3 | (b) 21.5 | (c) 2.5 | |
| (d) 4 | (e) None of the above | (0) 2.0 | |
| () - | () | | |
| Q24. Total no of units in 2011 a 2012 & 2014 together? | nd 2013 are approximately w | what $\%$ more or less than Total units in | |
| (a) 20% more | (b) 24% more | (c) 29% less | |
| (d) 28% less | (e) None of the above | | |
| Q25. In which of the followin maximum? (a) 2011 (d) 2013 | ng year, the ratio of unit co (b) 2015 (e) 2012 | nsumtion to the no. of consumers is (c) 2014 | |
| () _010 | (0) =01= | | |
| S21. Ans.(a) Sol. $\frac{325}{250} = \frac{325 \times 375}{250 \times 550} = 39 : 44$ S22. Ans.(c) Sol. 2016 : No. of consumers = $\frac{220}{100}$ [225] = 495 thousand Electricity consumption = 550 Lacs \therefore Electricity consumption per consumer = $\frac{550 \times 100000}{495 \times 1000}$ = 111 units per consumer 2015 : Electricity consumption per consumer = $\frac{550 \times 100000}{375000}$ | | | |
| ≈ 147 units per consumer Hence, the Impact is reduction o | f 36 units per consumer | | |
| S23. Ans.(b) Sol. Total consumer all over the year = $225 + 250 + 300 + 350 + 375 = 1500$ thousand Desired value = $\frac{325 \times 100000}{1500000}$ = 21.5 times approx S24. Ans.(d) Sol. Total units in 2011 and 2013 = 650 Lacs | | | |
| Total units in 2012 and $2014 = 900$ Lacs | | | |
| Desired value = $\frac{250}{900} \times 100 \approx 28\%$ approx | | | |
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S25. Ans.(c)

Sol.It is clear from the graph that unit consumption is highest in 2014 while consumers-electricity units difference is maximum as well. Hence, Ratio of unit consumption to the number of consumers is maximum in 2014.

Directions (26-30): The following information is about performance of Akhilesh in SBI PO mains exam. Read the information carefully and answer the following question.

The exam consists of 200 marks, with 5 sections i.e. Reasoning, quant, English, G.A., Computers. Akhilesh attempted 22 questions in Reasoning with an accuracy of $77\frac{3}{11}\%$. Each question of reasoning consists of 2 marks with a negative marking of 25%. (if right question is of 2 mark, then 0.5 mark will be deducted for each wrong answer).

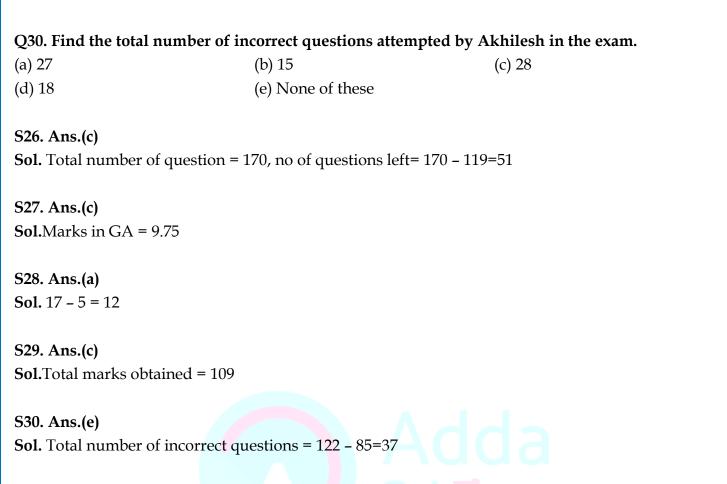
Each section of the exam have the 25% of negative marking for each wrong question. The total number of questions in reasoning is 30. Each question of computer consists of $\frac{1}{2}$ marks and maximum marks in computer are 10. Total 16 questions are attempted by Akhileshin computer with the ratio of right questions to wrong questions 3 : 1.

The number of questions in English is equal to maximum marks of English. Akhilesh attempted 26 questions with 50% accuracy. The number of questions attempted in English is 65% of the total number of questions in English.

GA section consists of 40 questions with each question 0.75 marks. Akhilesh attempted 23 questions out of which 8 are wrong. Quant section contains 40 questions out of which Akhilesh attempted 35 questions and got 52.5 marks.

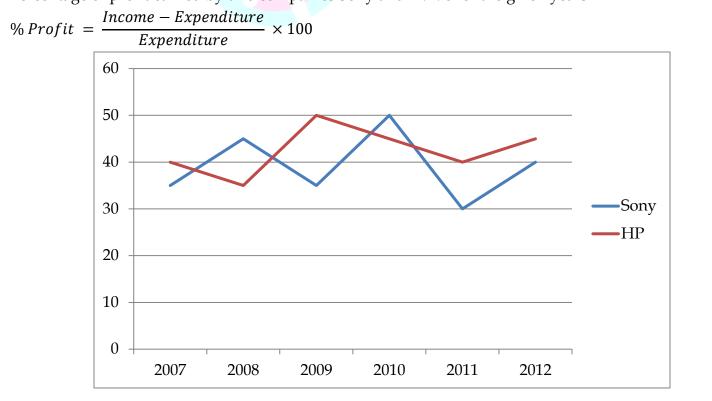
Q26. Another student arunoday attempted 70% questions in the same exam, then find the number of questions left by arunoday.

| (a) 119 | (b) 68 | (c) 51 | | |
|--|------------------------------|--|--|--|
| (d) 65 | (e) None of these | | | |
| Q27. Find the marks obtained b | y Akhilesh in GA. | | | |
| (a) 8.75 | (b) 9.25 | (c) 9.75 | | |
| (d) 10.75 | (e) None of these | | | |
| Q28. The number of correct questions in reasoning is how much more than the number of incorrect questions in the same subject? | | | | |
| (a) 12 | (b) 7 | (c) 18 | | |
| (d) 9 | (e) None of these | | | |
| Q29. Find the total marks obtain | ned by Akhilesh in the exam. | | | |
| (a) 101 | (b) 105 | (c) 109 | | |
| (d) 102 | (e) None of these | | | |
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Directions (31-35): Study the following graph carefully and answer the questions given below it.

Percentage of profit earned by two companies Sony and H.P. over the given years



| O21 Expanditure of Compar | W HP in 2008 and 2000 | aro De 19 lab | he and De 145 lakh respectively | |
|--|--------------------------|----------------|--|--|
| Q31. Expenditure of Company HP in 2008 and 2009 are Rs. 12 lakhs and Rs. 14.5 lakh respectively. What was the total income of Company B in 2008 and 2009 together (in lakh rupees)? | | | | |
| (a)35 lac | (b)37.65 lac | u 2009 togetin | (c)40 lac | |
| | | | (c)40 lac | |
| (d)37.95 lac | (e)None of these | | | |
| · – | | HP in 2011 wa | as 3 : 4 respectively. What was the | |
| respective ratio of their incor | | | | |
| | 23:37 | (c)43 : | 56 | |
| (d)29 : 46 | (e)39 : 56 | | | |
| Q33. Total expenditure of C | ompany Sony in all th | e years togeth | ner was 82.5 lakhs. What was the | |
| total income of the Company | in all the years togethe | r? | | |
| (a)38 lac | (b)40 lac | | (c)45 lac | |
| (d) Cannot determined | (e)None of these | | | |
| | | | ere equal and the total income of tre of the two companies in 2012? (c)6 lac | |
| (d)8 lac | (e)10 lac | | (c)o ne | |
| (4)0 140 | (0)10 luc | | | |
| Q35. If the income of Comp | any HP in 2009 and 201 | 0 were in the | e ratio of 2 : 3 respectively. What | |
| was the respective ratio of ex | | | - , | |
| (a) 2 : 3 | (b)4:5 | (c)29 : | - | |
| (d)39 : 55 | (e)None of these | | | |
| S31. Ans.(d) | (-) | | CAREER POWER | |
| Sol. | | | | |
| Income of HP = I_1 in 2008 | | | | |
| $\therefore 35 = \frac{I_1 - 12}{12} \times 100$ | | | | |
| $l_1 = \text{Rs. } 16.2 \text{ L}$ | | | MAINS | |
| In 2009, Let Income = I_2 | | | 10 FULL LENGTH MOCKS | |
| $\therefore 50 = \frac{I_2 - 14.5}{14.5} \times 100$ | | | Bilingual | |
| $I_2 = 21.75 \mathrm{L}$ | | | Price : ₹349/- | |
| $\therefore \text{total income} = 21.75 L + 16.2$ | 2 L = 37.95 L | | visit: store.adda247.com | |

S32. Ans.(e) Sol. Let the respective expenditures of both Sony and HP be Rs. 3x and Rs. 4x lakhs. $\therefore I_{sony} in 2011 \Rightarrow 30 = \frac{I_1 - 3x}{3x} \times 100$ or, $I_1 = 3.9x$ Again, I_{HP} in 2011 $\Rightarrow 40 = \frac{I_2 - 4x}{4x} \times 100$ $\Rightarrow I_2 = 5.6x$

Desired ratio $\Rightarrow I_{sony} : I_{HP} = 3.9x : 5.6x$ =39:56

S33. Ans.(d)

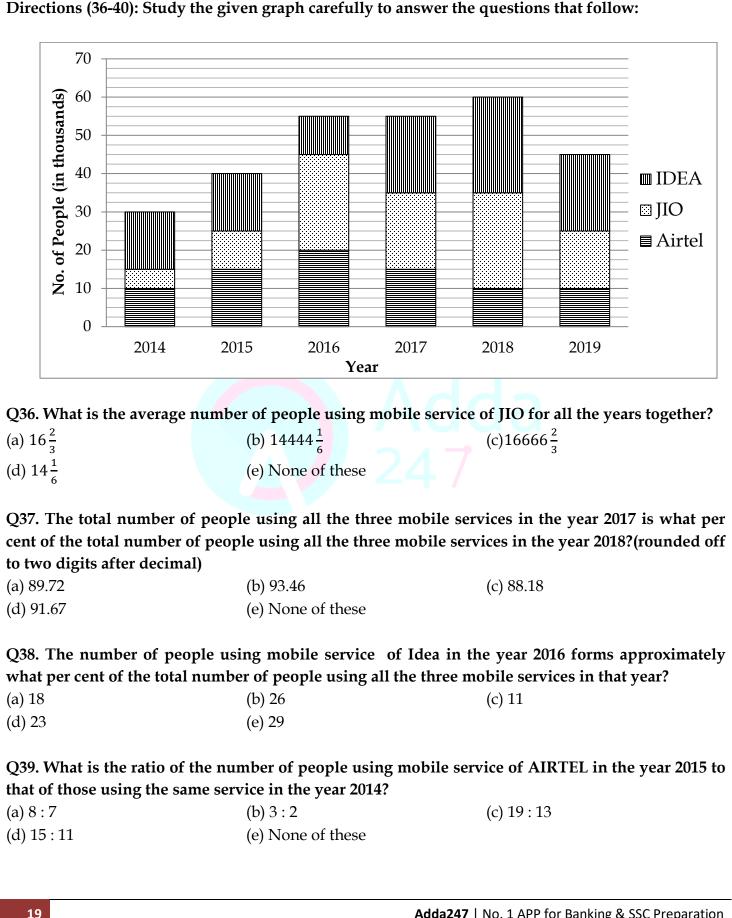
Sol.It can't be determined as data given are inadequate.

S34. Ans.(a)

Sol.

Let expenditure of both Sony and HP in 2012 beRs. *x* lakhs & their respective incomes be Rs. $I_1 \& I_2$ lakhs.

 \therefore Profit% for Sony = 40 & Profit% for HP = 45 $\therefore 40 = \frac{l_1 - x}{x} \times 100 \qquad \dots (i)$ &45 = $\frac{I_2 - x}{x} \times 100$... (*ii*) From (i) and (ii) x = Rs. 2L \therefore Total expenditure = 2 × 2 = Rs. 4 lakh S35. Ans.(c) Sol. Let the income be Rs. 2x and Rs. 3x lakhs respectively in 2009 and 2010 for HP. ∴In 2009, $50 = \frac{2x - E_1}{E_1} \times 100$ $\Rightarrow 1.5 E_1 = 2x$ $\Rightarrow E_1 = \frac{2x}{1.5} Lakh$ In 2010, $45 = \frac{3x - E_2}{E_2} \times 100$ $\Rightarrow E_2 = \frac{3x}{1.45}$ $\therefore \frac{2x}{1.5} : \frac{3x}{1.45} = 29 : 45.$



Q40. What is the total number of people using mobile service of JIO in the years 2018 and 2019 together? (a) 35,000 (b) 30,000 (c) 45,000 (d) 25,000 (e) None of these S36. Ans.(c) **Sol.** Average = $\frac{1}{6} \times [5 + 10 + 25 + 20 + 25 + 15] \times 1000$ $=\frac{100000}{6}=16666\frac{2}{3}$ S37. Ans.(d) **Sol.** Required $\% = \frac{55}{60} \times 100 = 91.67\%$ S38. Ans.(a) **Sol.** Required $\% = \frac{10}{55} \times 100 = 18\%$ (approx.) S39. Ans.(b) **Sol.** Required Ratio = 15 : 10 = 3 : 2 S40. Ans.(e) **Sol.** Required no. of people = (25 + 15) × 1000 = 40000

Directions(41-45): Study the given information carefully to answer the questions that follow:

An organization consists of 2400 employees working in different departments, viz HR, Marketing, IT, Production and Accounts. The ration of male to female employees in the organization is 5 : 3. Twelve percent of the males work in the HR department. Twenty four percent of the females work in the Accounts department. The ratio of males to females working in the HR department is 6:11. One-ninth of the females work in the IT department. Forty two percent of the males work in the Production department. The number of females working in the production department is 10 percent of the males working in the same. The remaining females work in the marketing department. The total number of employees working in the IT department is 285. Twenty two percent of the males work in the Marketing and the remaining work in the Accounts department.

| Q41. The number of males working in the IT department forms approximately what percent of the total number of males in the organization? | | | | |
|--|---|--|--|--|
| (a) 5 | (b) 12 | (c) 21 | | |
| (d) 4 | (e) 18 | | | |
| Q42. What is the difference (a) 10 (d) 16 | e between males in Accoun (b) 15 (e) None of these | nts department and Males in IT department? (c) 18 | | |
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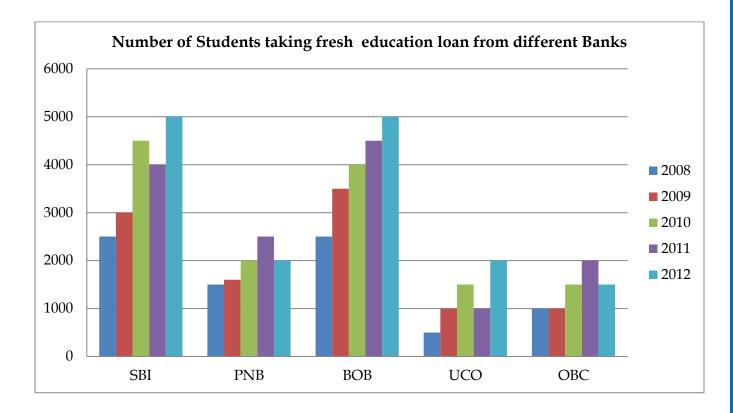
| Q43. The total number of employees working in the Accounts department forms what percent of | | | |
|---|--|-------------------------------------|--|
| the total number of employ | | | |
| (a) 19.34 | (b) 16.29 | (c) 11.47 | |
| (d) 23.15 | (e) None of these | | |
| Q44. The number of fema total number of females in | - | partment forms what percent of the | |
| (a) 7 | (b) 2 | (c) 4 | |
| (d) 15 | (e) None of these | | |
| Q45. What is the total num | ber of females working in the HR a | and Marketing departments together? | |
| (a) 363 | (b) 433 | (c) 545 | |
| (d) 521 | (e) None of these | | |
| Solutions (41–45): Total no. of employees = 24 No. of males = $\frac{5}{8} \times 2400 = 12$ & No. of females = 900 Males (HR) = 12% of 1500 = Females (HR) = $\frac{11}{6} \times 180 =$ \therefore Females (Accounts) = 24% &Females (IT) = $\frac{1}{9} \times 900 = 12$ No. of Males in IT = 285 – 1 \therefore No. of males in Production = 630 Females (Production) = 10% Males (Marketing) = $\frac{22\times1500}{100}$ No. of females in Marketing = 191 No. of Male in Accounts = 12 = 175 | 1500 180 330 $6 \text{ of } 900 = 216$ 100 $00 = 185$ $00 = 42\% \text{ of } 1500$ $6 \text{ of } 630 = 63$ $6^{2} = 330$ $g = (900 - 330 - 216 - 100 - 63)$ | <text></text> | |
| S41. Ans.(b) | | СОМВО | |
| Sol. Desired % = $\frac{185}{1500} \times 100$ | = 12.33% ≈ 12% | 20 TOTAL TEST | |
| S42. Ans.(a) | | • 10 PRE MOCKS | |
| Sol. No. of males in accoun | ts = 175 | • 10 MAINS MOCKS | |
| No. of males in $IT = 185$ | | | |
| Difference = 10 | | Price : ₹525/- | |
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| | | | |

S43. Ans.(b) Sol. Reqd. % = $\frac{(216+175)}{2400} \times 100 = 16.29\%$

S44. Ans.(a) Required $\% = \frac{63}{900} \times 100 = 7\%$

S45. Ans.(d) **Sol.** Females in (HR + Marketing) = 330 + 191 = 521

Directions (46-50): Read the given bar graph and answer the following questions.



Q46. Approximately how many students taking a loan from UCO in 2009 and PNB in 2010 were defaulters if 23% from UCO in 2009 and 20% from PNB in 2010 have defaulted?

| (a) 630 | (b) 650 |
|---------|---------|
| (d) 750 | (e) 840 |

(c) 600

Q47. In 2007, no of defaulters in SBI was 5%. However each year no of defaulters increases by 10% in number. What will be the difference between the number of defaulters of SBI in the year 2009 and 2012?

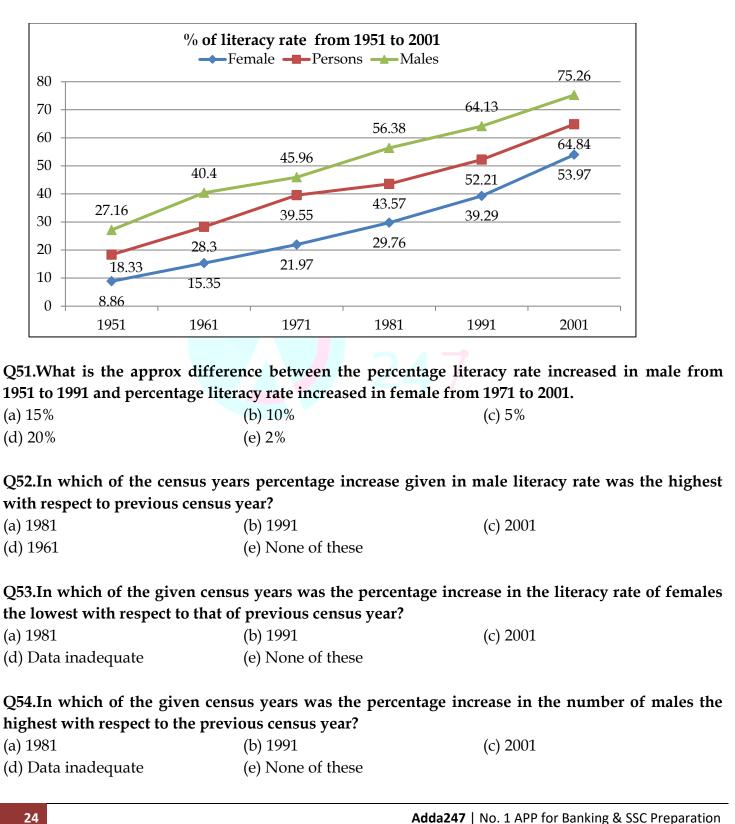
| (a) 1500 | (b) 2000 | (c) 1325 |
|----------|---------------------|----------|
| | $() \cap (1 1) = 1$ | |

(d) 1456 (e) Cannot be determined

| Q48. In which of the following | years, the difference in no. | of students taking loan from Bank BOB |
|--|--------------------------------|--|
| from the previous year is highe | st? | |
| (a) 2008 | (b) 2009 | (c) 2010 |
| (d)2012 | (e) None of these | |
| Q40 If an average Be 175000 | nor students advection las | a constigued by OPC heads all ever the |
| - | - | in sanctioned by OBC bank all over the |
| year. What will be total amount | • | • |
| (a) 1055600000 | (b) 1055800000 | (c) 162000000 |
| (d) 105000000 | (e) None of the above | |
| O50. What is the ratio of Numb | per of students taking Educ | ation Loans from SBI and BOB together |
| | - | on loans in 2010 and 2011 together? |
| (a) 8 : 5 | (b) 5 : 7 | (c) 7 : 5 |
| (d) 9 : 7 | (e) None of these | |
| | (c) Home of these | |
| S46. Ans.(a) | | |
| Sol. | | |
| Students taking loan from UCO | in $2009 = 1000$ | |
| Defaulters (UCO) = 23% of 1000 | | |
| Person taking loan from PNB in | | nna |
| Defaulters (PNB) = 20% of 2000 = | | uuu |
| Total desired defaulters = $230 + 4$ | | |
| Total desired defaulters = 250 + 3 | 400 - 050 | . / |
| S47. Ans.(e) | | * |
| | use no, of students taking a l | oan from SBI in 2007 is unknown. |
| Sol. Califiot de determined decat | ise no. of students taking a f | |
| S48. Ans.(b) | | |
| | n 2009, difference between | no. of students taking a loan is highest as |
| compared to previous year. | ii 2007, difference between | no. of students taking a four is nightest as |
| compared to previous year. | | |
| S49. Ans.(e) | | |
| Sol. No. of students taking educa | ation loan from OBC bank al | l over the year |
| = 1000 + 1000 + 1500 + 2000 + 15 | | nover the year |
| | | 20 |
| Total loan amount sanctioned ov $- B_{-1}$ 1 22 50 00 000 | $7000 \times 1,75,00$ | 50 |
| = Rs. 1,22,50,00,000 | | |
| S50. Ans.(c) | | |
| Sol. | | |
| | 5000 - 10000 | |
| SBI : 2500 + 3000 + 4500 + 4000 + BOB : 2500 + 2500 + 4000 + 4500 | | |
| BOB : 2500 + 3500 + 4000 + 4500 | + 2000 - 12200 | |
| | | |

Total no. of students taking loan in 2010 = 13500 Total no. of students taking loan in 2011 = 14000 Desired ratio = $\frac{19000+19500}{13500+14000} = \frac{38500}{27500} = \frac{7}{5}$

Directions (51-55): Study the following line graph carefully and answer the questions given below.



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Q55.What is the ratio of percentage literacy rate increased of male from (1961-1981) to literacy rate increased of person in 1971?

| (a) 1 : 1 (d) 1 : 3 | (b) 1 : 2 (e) 3 : 1 | | (c) 2 : 1 |
|------------------------|------------------------------|------------------------------|-----------|
| S51. Ans.(b) Sol. | | | |
| Dequired difference - | $(53.97 - 21.97) \times 100$ | $(64.13 - 27.16 \times 100)$ | |

Required difference = $\left(\frac{53.57 - 21.57}{21.97}\right) \times 100 - \left(\frac{57.15 - 27.16}{27.16} \times 100\right)$ = $\left(\frac{32}{21.97} \times 100\right) - \frac{36.97}{27.16} \times 100$ ≈ 146 - 136 ≈ 10%

S52. Ans.(d)

Sol.

Percentage increase in the literacy rate of male in 1961 = 48.74% 1971 = 13.76% 1981 = 22.67% 1991 = 13.74% 2001 = 17.35% \therefore Required year = 1961

S53. Ans.(b)

Sol.

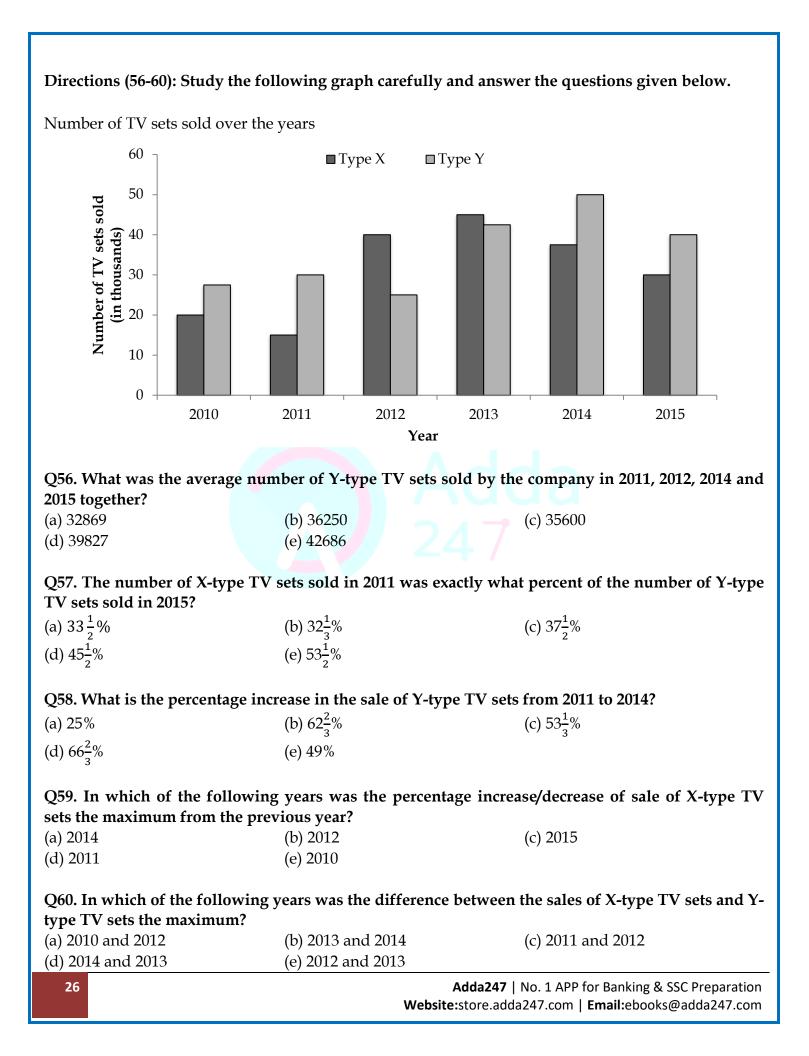
Percentage increase in the literacy rate of female In 1961 = 73.25% In 1971 = 43.12% In 1981 = 35.45% In 1991 = 32.02% In 2001 = 37.36%

S54. Ans.(d)

Sol.

Since, the number of males are not specified, we can not get the required value.

S55. Ans.(a) Sol. Required ratio = $\left(\frac{56.38-40.4}{40.4} \times 100\right)$: 39.55 = 39.55 : 39.55 = 1 : 1

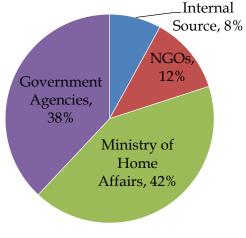


S56. Ans.(b) Sol. Required average = $\frac{(30 + 25 + 50 + 40)}{4} \times 1000$ = 36.25 × 1000 = 36250 S57. Ans.(c) Sol. Required % = $\frac{15}{40} \times 100 = 37\frac{1}{2}\%$ S58. Ans.(d) Sol. Required % increase = $\frac{50 - 30}{30} \times 100$ = $\frac{200}{3}\% = 66\frac{2}{3}\%$ S59. Ans.(b) Sol. In year 2011 = $\frac{15 - 20}{20} \times 100$ = $-\frac{5}{20} \times 100 = -25\%$ In year 2012 = $\frac{40 - 15}{15} \times 100 = 166\frac{2}{3}\%$ In year 2013 = $\frac{45 - 40}{40} \times 100 = 12.5\%$ In year 2014 = $\frac{37.5 - 45}{45} \times 100 = -16.67\%$ In year 2015 = $\frac{30 - 37.5}{37.5} \times 100 = -20\%$

S60. Ans.(c) Sol. From the graph the maximum difference is in the year 2011 and 2012.

Directions (61-65): Study the following pie-charts carefully and answer the questions given below them.

The entire fund that an organization gets from different sources is equal to Rs. 16 crore.



Sources of funds in the organisation

| | Scholarship, 16% Building Maintenance, 25% rved, | |
|--|--|---|
| Use of fund by | y the organisation | |
| Q61. What is the difference from Government Agencies? | | ne organization from NGOs and that |
| (a) Rs. 43268000 | (b) Rs. 38650000 | (c) Rs. 46800000 |
| (d) Rs. 52860000 | (e) None of the above | () |
| () | | |
| only, how much fund from th | ne Ministry of <mark>H</mark> ome Affairs wou | |
| (a) Rs. 2.72 crore | (b) Rs. 7.23 crore | (c) Rs. 5.20 crore |
| (d) Rs. 3.06 crore | (e) Rs. 8.03 crore | |
| | be paid out of the fund from Go overnment Agencies fund used fo (b) 38.6% (e) 52% | overnment Agencies, find what is the or this purpose. (c) 31.23% |
| O64. What is the total amoun | t used by the organization for Pa | vment? |
| (a) Rs. 4.8 crore | (b) Rs. 6.3 crore | (c) Rs. 5.6 crore |
| (d) Rs. 9.73 crore | (e) None of the above | (-) |
| | | |
| Q65. What is the amount of f | und acquired by the organization | from Ministry of Home Affairs? |
| (a) 6.25 crores | (b) 6.2 crores | (c) 6.72 crores |
| (d) 9.25 crores | (e) None of the above | • • |
| S61. Ans.(e) Sol. Required fund = (38 – 12) = Rs. 41600000 | | |
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S62. Ans.(a) Sol. Required remaining amount = 42% of 16 cr – 25% of 16 cr = 17% of 16 cr = 2.72 crore

S63. Ans.(a) **Sol.** Required $\% = \frac{16}{38} \times 100 = 42.11\%$

S64. Ans.(c) **Sol.** Required amount = 35% of 16 crore = $\frac{35 \times 16}{100}$ = Rs. 5.6 crore

S65. Ans.(c) **Sol.** Fund acquired = 42% of 16 crore = $\frac{42 \times 16}{100}$ = Rs. 6.72 crore

Directions (66-70): Study the following table carefully and answer the questions given below:

| Tuno | Metro | Μ | | | | Metro | н | | | |
|-------------|-------|-----|--------|-------|--------|-------|-----|------|-------|--------|
| Type Colour | | | Colour | | | | | | | |
| | Black | Red | Blue | White | Silver | Black | Red | Blue | White | Silver |
| А | 40 | 25 | 55 | 75 | 15 | 45 | 32 | 40 | 60 | 20 |
| В | 20 | 35 | 60 | 80 | 20 | 30 | 37 | 39 | 81 | 35 |
| С | 35 | 30 | 50 | 90 | 35 | 40 | 42 | 41 | 6 | 37 |
| D | 45 | 40 | 45 | 85 | 40 | 35 | 39 | 37 | 90 | 42 |
| Е | 50 | 35 | 35 | 60 | 30 | 50 | 44 | 43 | 77 | 22 |
| F | 55 | 42 | 40 | 65 | 52 | 47 | 34 | 45 | 87 | 17 |

Number of Cars (in thousands) of different Models and colours sold in two Metro Cities in a year

Q66.The difference between the white-coloured cars sold in the two metros of which of the following models is the minimum?

(a) A(b) C(c) D(d) F(e) None of these

Q67. The total number of blue-coloured cars of Model E and D sold in metro H is exactly equal to the number of white-coloured cars of which model in Metro M?

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|-------|-------------------|--------------------------------|-------------------|
| (d) A | (e) None of these | | |
| (a) B | (b) F | (c) C | |

| | | E blue-colours cars of model 'C' sold in Metro M |
|--|-------------------------------|---|
| | (r cars of Model 'F' sold in | |
| (a) 8,000 (d) 15,000 | (b) 10,000 | (c) 12,000 |
| (d) 15,000 | (e) None of these | |
| Q69. The total number of | f silver-coloured cars sold : | in Metro H is approximately what percentage of |
| that in Metro M? | | |
| (a) 130 | (b) 140 | (c) 90 |
| (d) 100 | (e) 110 | |
| Q70. In metro M the combinations? | number of cars sold w | as maximum for which of thecolour-model |
| (a) White-C | (b) Blue-B | (c) Silver-B |
| (d) White-D | (e) Silver-F | |
| S66. Ans.(e) Sol. $A \Rightarrow 75 - 60 = 15$ $D \Rightarrow 90 - 85 = 5$ Required model = B S67. Ans.(a) Sol. Blue coloured car of Model E and D sold in Me Which is equal to white co S68. Ans.(e) | E ⇒ 77 – 60 = 17 | $C \Rightarrow 90 - 6 = 84$ F $\Rightarrow 87 - 65 = 22$ |
| Sol. Required difference = | = 50 - 34 = 16000 | |
| | | ् 🦉 |
| S69. Ans.(c) 10^{173} | 00 000/ | United India |
| Sol. Required % = $\frac{173}{192} \times 1$ | $00 \approx 90\%$. | OICL-AO UIIC |
| S70. Ans.(a) | | Generalist Assistant |
| Sol. | | COMBO |
| White C - 90 | | |
| Blue B – 60 | | 40 TOTAL TEST |
| Silver B – 20 | | |
| White D – 85 | | • 10 + 10 PRE MOCKS Bilingual |
| Silver F – 52 | | 10 + 10 MAINS MOCKS |
| | | |

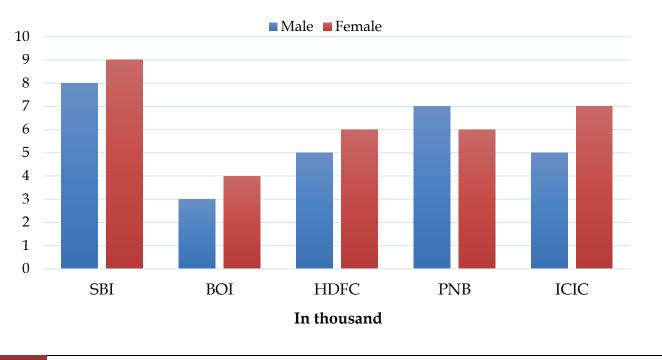
Direction (71–75): Study the following table carefully to answer the questions that follow:

| e-Com | Р | Q | R | S | Т |
|---|--|--|--|---|-----------------------------|
| Years | | | | | |
| 2011 | 240 | 405 | 305 | 365 | 640 |
| 2012 | 420 | 600 | 470 | 446 | 258 |
| 2013 | 600 | 680 | 546 | 430 | 610 |
| 2014 | 160 | 208 | 708 | 550 | 586 |
| 2015 | 140 | 640 | 656 | 250 | 654 |
| 2016 | 290 | 363 | 880 | 195 | 483 |
| 1. What was th and the lowest 325 416 | | | by Company | | 5 |
| 2.What was th mpany-S in the | | - | | | Order canc |
| 57 | | (b) 44 | AU | (c) 125 | |
| 28 | | (e) 95 | | | |
| 3. What was the | e average nur | nber of Order | cancelled by | the Companie | es P,R, S and |
| 3. What was the ar 2014? 405 488 | e average nur | nber of Order (b) 551.5 (e) None of th | | the Companie (c) 501 | es P,R, S and |
| ar 2014? 405 | Order are c | (b) 551.5 (e) None of th ancelled by (| ese Company-R d lled by Comp | (c) 501 ue to bad we | ather and c |
| ar 2014? 405 488 4.In 2016, 40% ckaging fault. F 548 528 5.What is the a compared to ca | Order are c Iow many or | (b) 551.5 (e) None of th ancelled by C ders are cance (b) 468 (e) None of th percentage of cs by Company | ese Company-R d lled by Comp ese cancelled Orc | (c) 501 ue to bad we any-R due to p (c) 568 ler by Compa | ather and c packaging fa |
| ar 2014? 405 488 4.In 2016, 40% ckaging fault. H 548 528 5.What is the a compared to ca 340 | Order are c Iow many or | (b) 551.5 (e) None of th ancelled by C ders are cance (b) 468 (e) None of th percentage of cs by Company (b) 314 | ese Company-R d lled by Comp ese cancelled Orc | (c) 501 ue to bad we any-R due to j (c) 568 | ather and c packaging fa |
| ar 2014? 405 488 4.In 2016, 40% ckaging fault. H 548 528 5.What is the a compared to ca 340 265 1. Ans.(b) | Order are c low many or pproximate p ncelled order | (b) 551.5 (e) None of the ancelled by Coders are cance (b) 468 (e) None of the percentage of the company (b) 314 (e) 384 | ese Company-R d lled by Comp ese cancelled Ord y-S in 2011? | (c) 501 ue to bad we any-R due to r (c) 568 ler by Compa (c) 280 | ather and c packaging fa |
| ar 2014? 405 488 4.In 2016, 40% ckaging fault. H 548 528 5.What is the a compared to ca 340 265 1. Ans.(b) 1.Highest numb | Order are c Iow many or approximate p ncelled order | (b) 551.5 (e) None of the ancelled by Coders are cance (b) 468 (e) None of the percentage of the set of the company (b) 314 (e) 384 | ese Company-R d Iled by Comp ese cancelled Orc y-S in 2011? | (c) 501 ue to bad we any-R due to r (c) 568 ler by Compa (c) 280 | ather and c packaging fa |
| ar 2014? 405 488 4.In 2016, 40% ckaging fault. H 548 528 5.What is the a compared to ca 340 265 1. Ans.(b) | Order are c Iow many or opproximate p ncelled order er of Order ca Order cancel | (b) 551.5 (e) None of the ancelled by Content of the ancelled by Content of the percentage of the content of the content of the content of the ancelled by Content of the ancelled by Content of the c | ese Company-R d Iled by Comp ese cancelled Orc y-S in 2011? | (c) 501 ue to bad we any-R due to r (c) 568 ler by Compa (c) 280 | ather and c packaging fa |

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S72. Ans.(d) **Sol.** Number of Order cancelled by Company-S in the year 2013 = 430 Number of Order cancelled by Company-S in the year 2014 = 550 Required percentage = $\frac{550-430}{430} \times 100 = 28$ (approx) S73. Ans.(c) **Sol**.Required average = (160 + 708 + 550 + 586) ÷ 4 $= 2004 \div 4 = 501$ S74.Ans.(d) Sol. Total number of Order are cancelled by Company R in 2016 = 880 Order are cancelled by Company-R due to packaging fault = 60%Required number = 60% of 880= 528S75.Ans.(b) **Sol.**Cancelled Order by Company's P and R in 2013 = 600 + 546 = 1146 Cancelled Order by Company-S in 2011 = 365 Required percentage = $\frac{600+546}{365} \times 100 = 314$ (approx.)

Directions (76-80): Study the bar graph carefully and answer the following questions.



The number of male and female probationary officers in various banks

| Q76.What is the total numb | per of employees in the | given six banks? |
|---|--|--|
| (a) 60000 | (b) 56000 | (c) 58000 |
| (d) 62000 | (e) 59000 | |
| Q77.What is the ratio of ma | ale to female probation | ary officers in all six banks? |
| (a) 5 : 4 | (b) 3 : 2 | (c) 2 : 3 |
| (d) 7 : 8 | (e) 4 : 5 | |
| Q78.In HDFC 40% males a males to the married femal | | unmarried, then what is the ratio of the married |
| (a) 7 : 5 | (b) 5 : 7 | (c) 12 : 13 |
| (d) 2 : 3 | (e) 3 : 5 | |
| 40% of the male probabti | onary officers in PNE | officers in ICICI is euqal to that in PNB, which is B, then what is the percentage of married male otal number of probationary officers in ICIC? |
| (a) 25.51% | (b) 28% | (c) 27.91% |
| (d) 22% | (e) 23.33% | |
| Q80.The male probationar officers in BOI? | | hat per cent more than the female probationary |
| (a) 74.8% | (b) 74% | (c) 75% |
| (d) 75.4% | (e) 78% | |
| S76. Ans.(a) Sol. Total employees of the = (8 + 9 + 3 + 4 + 6 + 5 + 6 + | 0 | 00 |
| S77. Ans.(d) Sol. Ratio of male to female = (8000 + 3000 + 5000 + 7000 = 28000 : 32000 = 7 : 8 | 1 5 | |
| S78.Ans (b) | | |
| Sol. Unmarried males in HI | $DFC = 5000 \times \frac{40}{100} = 200$ | 00 |
| ∴ Married males = (5000 – 2 | 100 | |
| Unmarried females in HDF | , | |
| | 100 | |
| $\therefore \text{ Married females} = (6000 - 2000) + 420$ | , | |
| $\therefore \text{ Required ratio} = 3000 : 420$ | 00 - 0 . 7 | |
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S79. Ans.(e)

Sol. Number of male married probationary officers in ICICI

= Number of male married probationary officers in PNB

= Male probationary officers in PNB $\times \frac{40}{100} = 7000 \times \frac{40}{100} = 2800$

∴The percentage of married male probationary officers in ICICI w.r.t to the total probationary officers in ICICI

 $=\frac{2800 \times 100}{7000 + 5000} = 23.33\%$

S80. Ans.(c) Sol. Required% = $\frac{7000 - 4000}{4000} \times 100\%$ = 75% more than female probationary officers in BOI

Directions (81-85): The table given below shows the monthly salary of six employees working in a leading manufacturing firm.

| Years→ | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|------------|---------------|-------|-------|-------|-------|-------|
| Employees↓ | | | | | | |
| Richali | 19200 | 20500 | 23400 | 25000 | 26600 | 28200 |
| Piyush | 2850 0 | 30100 | 31800 | 33000 | 34900 | 36000 |
| Ritesh | 22600 | 24000 | 26400 | 28100 | 29800 | 31000 |
| Aditi | 23000 | 24500 | 26100 | 27000 | 29300 | 31200 |
| Krishna | 24800 | 26000 | 27900 | 29100 | 30800 | 33000 |
| Raksha | 31500 | 35800 | 36600 | 40200 | 44000 | 45800 |

Q81. What is the difference between average monthly income of Aditi all over the years and monthly income of Raksha in 2015?

| (a) Rs. 17250 | (b) Rs. 18150 | (c) Rs. 17510 |
|---------------|-------------------|---------------|
| (d) Rs. 17150 | (e) None of these | |

Q82. Monthly salary of Ritesh in 2016 contributes for what percent in total monthly salary of Richali, Piyush and Krishna together in 2016? (approximately)

| (a) 30% | (b) 32% | (c) 38% |
|---------|---------|---------|
| (d) 42% | (e) 28% | |

Q83. Find the ratio of annual salary of Aditi in 2012 and Raksha in 2014 together to that of Piyush in 2013 and Richali in 2011 together?

| (a) 6 :7 | (b) 7 : 6 | (c) 5 : 4 |
|-----------|-------------------|-----------|
| (d) 3 : 2 | (e) None of these | |

| | Ũ | r in 2013 is by what percent more or less than |
|--|---|--|
| that of Aditi and Raksha togeth | · · · · | |
| (a) 19% more | (b) 16% less | (c) 19% less |
| (d) 16% more | (e) 29% less | |
| | | |
| Q85. In 2015, Raksha donated 5 | 5% of her monthly sal | ary, she then lent out 20 $\%$ of remaining salary |
| on CI at 5% for 3 years. Find the | e interest (approx.) ea | rned by her after 3 years? |
| (a) Rs. 1381 | (b) Rs. 1318 | (c) Rs. 1418 |
| (d) Rs. 1315 | (e) Rs. 1300 | |
| | | |
| S81. Ans.(d) | | |
| Sol. Average monthly income of | f Aditi = $\frac{1}{6} \times 161100 =$ | 26850 Rs. |
| ∴Required difference = 44000 – 2 | - | |
| | | |
| S82. Ans.(b) | | |
| Sol. Required percentage = $\frac{31000}{97200}$ | $\frac{0}{2} \times 100 \sim 320\%$ | |
| 301. Required percentage $-\frac{1}{97200}$ | $\frac{1}{0} \times 100 \sim 32\%$ | |
| 587 A ma (a) | | |
| S83. Ans.(e) | $(0) \times 12 = 647$ | |
| Sol. Required ratio = $\frac{(24500+4020)}{(31800+1920)}$ | $\frac{(0)\times 12}{(0)\times 12} = \frac{017}{510}$ | |
| | | |
| S84. Ans.(c) | | |
| Sol. Monthly salary of Piyush an | nd Krisha <mark>n =</mark> 31800 + 2 | 27900 = 59700 |
| Monthly salary of Adity and Ra | ksha = 29300 + 44000 = | = 73300 |
| \therefore Required percentage = $\frac{13600}{73300} \times$ | $100 \approx 19\%$ less. | |
| 1 1 0 73300 | | |
| S85. Ans.(b) | | |
| Sol. 20% of amount left after do | pration = $\frac{1}{2} \times \frac{95}{2} \times 4400$ | 00 |
| | 5 100 × 1100 | |
| = Rs. 8360 | - \ 3] | |
| \therefore C.I. after 3 years = 8360 $\left[\left(1 + \frac{1}{2} \right) \right]$ | $\left(\frac{5}{100}\right)^{3} - 1$ | |
| = 8360 × 0.1576 | - | |
| ≈ Rs. 1318 | | |
| | | |
| Directions (86-90): A team of 5 | players participated i | n a tournament and played four matches (1 to |
| 1) The following table gives a | artial information ab | out their individual scores and the total run |

4). The following table gives partial information about their individual scores and the total runs scored by the team in each match.

Each column has two values missing. These are the runs scored by the two lowest scorers in that match. None of the two missing values is more than 10% of the total runs scored in that match.

| | | Match-1 | Match-2 | Match-3 | Match-4 |
|--|--|---|--|--|-------------------------------|
| | Ajinkya | | 100 | | 53 |
| | Pandya | 88 | 65 | | 52 |
| Runs scored by player | Cheteswar | | | 100 | |
| by player | Dhawan | 72 | 75 | 20 | 56 |
| | Virat | 60 | | 78 | |
| Total | | 270 | 300 | 240 | 200 |
| ored in the four matches) 20%) 23% 87.What is the maxim | (b) 229 (e) Car num possible | % nnot be deter | | (c) 17% on of Virat | in the to |
| insscored in the four ma | | | | | |
|) 18% | (b) 19. | 9% | | (c) 18.6% | |
| > 00 00/ | | . 1 . 1 . | | | |
| 1) 20.2% | (e) Car | nno <mark>t b</mark> e deter | rmined | | |
| 88. If the absolute diffe ur matches is minimun ored by them in the four 187:189 | erence betwee n possible the r matches. (b) 189 | n the total r en what is th | runs scored l ne ratio of Aj | | Cheteshwa |
| 20.2% 88. If the absolute difference our matches is minimum or ed by them in the four matches is minimum or pandya and Virat in the four or ed by the four or ed by them in the four or ed by the four or ed by them in the four or ed by the four or ed | erence betwee n possible the r matches. (b) 189 (e) Car rence betwee n possible the e four matche (b) 37 | en the total r en what is th 0:187 nnot be deter n the total r n what is the | runs scored l ne ratio of Aj rmined uns scored l e absolute di | inkya and C (c) 183:182 by Ajinkya a | Theteshwar 7 and Chetes |

| S86. Ans. (a) Sol. | |
|--|---|
| Maximum possible runs scored by Ajinkya in Match-1 = 22 | 7 |
| Maximum possible runs scored by Ajinkya in Match-3 = 19 | |
| Maximum possible percentage contribution: | (1000 that 20) |
| 27 + 100 + 19 + 53 199 | |
| $\frac{27 + 100 + 19 + 53}{270 + 300 + 240 + 200} \times 100\% = \frac{199}{1010} \times 100\% = 19.7\%$ | |
| = 20% approx. | |
| | |
| S87. Ans. (c) | |
| Sol. | |
| Maximum possible runs scored by Virat in Match-2 = 30 | |
| Maximum possible runs scored by Virat in Match-4 = 20 | |
| Maximum possible percentage contribution: | |
| $\frac{60+30+78+20}{270+300+240+200} \times 100\%$ | |
| 270 + 300 + 240 + 200 | |
| $= \frac{188}{1010} \times 100\% = 18.6\%$ | |
| 1010 | |
| S88. Ans. (b) | 1.1.1 |
| Sol. | dda |
| Maximum possible total runs scored by Cheteshwar in the | four matches = $27 + 30 + 110 + 20 = 187$. |
| Total runs scored by Ajinkya in the four matches is in the r | ange of 189 to 199 |
| Hence, | |
| In such a case minimum possible | |
| Total runs scored by Ajinkya in the four matches = 23 + 10 | 0 + 13 + 53 = 89 |
| Difference = 189 – 187 = 2 (minimum possible) | |
| So Required ratio is 189: 187 | |
| | |
| S89. Ans. (b) | |
| Sol. | |
| Maximum possible total runs scored by Cheteshwar in | IBPS |
| the four matches= $27 + 30 + 110 + 20 = 187$. | |
| In such a case minimum possible total runs scored by | IBPS (PO+CLERK) 2017 |
| Ajinkya in the four matches $-22 + 100 + 12 + 52 - 180$ | COMBO |
| = 23 + 100 + 13 + 53 = 189. | |
| Difference = 189 – 187 = 2 (minimum possible) Subsequently total runs scored by Pandya in the four | with Video Solutions |
| matches = $88 + 65 + 19 + 52 = 224$. | 190 TOTAL TESTS |
| Also, total runs scored by Virat in the four matches | |
| = 60 + 30 + 78 + 19 = 187 | • 80 Full Length Mocks |
| Absolute difference = $224 - 187 = 37$ | •110 Practice Sets Bilingual |
| | •E-Books, Study Notes etc. |
| | |

S90. Ans.(c) Sol. Individual ranges for total score: Ajinkya-> 189-199 Pandya-> 218-224 Cheteshwar-> 182-187 Dhawan-> 223 Virat-> 187-188 Least total will be of Cheteshwar (Rank 5) 2nd least will be Virat (Rank 4) Rank 3 must be of Ajinkya It is not possible to determine the exact ranks of Pandya and Dhawan

Directions (91-95): The table below shows production of five types of Trucks by a company in the years 2009 to 2014. Study the table and answer questions.

| $Year \rightarrow$ | | | | | 1 1 | | |
|--------------------|------|------|--------------------|------|------|------|-------|
| Type ↓ | 2009 | 2010 | <mark>20</mark> 11 | 2012 | 2013 | 2014 | Total |
| Minivan | 8 | 20 | <mark>16</mark> | 17 | 21 | 6 | 88 |
| Pickup | 16 | 10 | <mark>14</mark> | 12 | 12 | 14 | 18 |
| Canopy | 21 | 17 | 16 | 15 | 13 | 8 | 90 |
| Panel | 4 | 6 | 10 | 16 | 20 | 31 | 87 |
| Cab | 25 | 18 | 19 | 30 | 14 | 27 | 133 |
| Total | 74 | 71 | 75 | 90 | 80 | 86 | 476 |

Production of trucks by a company

Q91. In which year the production of trucks of all types taken together was approximately equal to the average of the total production during the period?

| (a) 2009 | (b) 2011 | (c) 2013 |
|----------|-------------------|----------|
| (d) 2014 | (e) None of these | |
| | | |

Q92. In which year, the total production of trucks of types of Minivan and Pickup together was equal to the total production of trucks of types Canopy and Panel together.

| (a) 2010 | (b) 2011 |
|----------|-------------------|
| (d) 2013 | (e) None of these |

| Q93. During the period 2009-1 | 14, in which type | of trucks was a continuous increase in production? |
|-------------------------------|-------------------|--|
| (a) Minivan | (b) Pickup | (c) Canopy |

(d) Panel (e) None of these

(c) 2014

| — | h type of trucks was 25% | of the total production of all types of trucks | cs | | |
|--|--|--|----|--|--|
| during 2013? (a)Panel (d)Minivan | (b) Canopy (e) None of these | (c) Pickup | | | |
| Q95. The per cent increase in (a) 15 (d) 30 | total production of all typ (b) 20 (e) None of these | pes of trucks in 2012 to that in 2011 was? (c) 25 | | | |
| S91. Ans.(c) Sol. Average of the total p production in 2013. | roduction during the pe | eriod = $\frac{476}{6} \approx 80$ which is equal to the total | al | | |
| S92. Ans.(d) Sol. Answer will be 2013. | | | | | |
| S93. Ans.(d) Sol. Answer is Panel | | | | | |
| S94. Ans.(a) Sol. 25% of 80 = 20 = producti | on of Panel's car in 2013. | | | | |
| S95. Ans.(b) Sol. Required percent increase = $\frac{90-75}{75} \times 100 = 20\%$ | | | | | |
| Directions (96-100): Study the | following graph to answ | er the given questions. | | | |
| Percent profit earned by two c % profit = $\frac{\text{Income} - \text{Expenditure}}{\text{Expenditure}}$ | | 7ears | | | |
| | – – Company M – | -Company N | | | |
| | 40 | 60 70 45 40 | | | |
| 30 25 | 30 30 10 | 30 | | | |
| 2005-06 | 2006-07 2007-08 200 | 08-09 2009-10 2010-11 | | | |

| Q96. For Company M, its income in 2009-10 was equal to its expenditure in 2010-11, what was the | | | | |
|---|-------------------------------------|-----------------------------------|--|--|
| ratio of its respective incomes i | - | (a) E-7 | | |
| (a) 4:5 | (b) 3:4 | (c) 5:7 | | |
| (d) Cannot be determined | (e) None of these | | | |
| Q97. If the income of Compan 10 what was the ratio of their r | y M in 2006-07was equal to the exp | penditure of Company N in 2009- | | |
| (a) 13:15 | (b) 15:26 | (c) 13:26 | | |
| (d) Cannot be determined | (b) 15.26 (e) None of these | (c) 13.20 | | |
| (d) Carnot be determined | (e) None of these | | | |
| Q98. What was the difference i | n the expenditures of the two comp | oanies in 2007-08? | | |
| (a) 10 | (b) 100 | (c) 1000 | | |
| (d) Cannot be determined | | , | | |
| | | | | |
| | Company N was Rs. 119 crores. | What was its expenditure in that | | |
| year? | | | | |
| (a) Rs. 76.8 crore | (b) Rs. 64 crore | (c) Rs. 70 crore | | |
| (d) Cannot be determined | (e) None of these | | | |
| O100. For Company N. in wh | nich year is the percent of increas | se in percent profit over that of | | |
| previous year the highest? | | | | |
| (a) 2011-12 | (b) 2007-08 | (c) 2010-11 | | |
| (d) Cannot be determined | (e) None of these | | | |
| | | | | |
| S96. Ans.(c) | | | | |
| Sol. | | | | |
| $I_{M\ 2009\ -\ 10} = E_{M\ 2010\ -\ 11} = \frac{I_{M\ 2010}}{1}$ | 0-11 | | | |
| | - | | | |
| $I_{M\ 2009-10}:I_{M\ 2010-11}=\frac{10}{14}=5:7$ | | | | |
| S97. Ans.(e) | | CAREER POWER | | |
| | 7 expenditure of Company M = Rs. a | | | |
| Then profit earned by Company | 1 1 5 | | | |
| Hence, income of Company M = | 5 | IBPS CLERK | | |
| Again, expenditure of Company | | IBPS COMBO | | |
| Hence, profit earned by Compa | | | | |
| $= Rs. \frac{a \times 110}{100} \times \frac{60}{100}$ | , , | with Video Solutions | | |
| | | 95 TOTAL TESTS | | |
| Thus, required ratio | | •40 Full Length Mocks | | |
| $=\frac{\frac{1}{100} \times a}{100} = \frac{10}{100} = 5:33$ | | •55 Practice Sets Bilingual | | |
| $=\frac{\frac{10}{100} \times a}{\frac{a \times 110}{100} \times \frac{60}{100}} = \frac{10}{66} = 5:33.$ | | •E-Books, Study Notes etc. | | |
| 100 100 | | | | |

S98. Ans.(d)

Sol. The given graph depicts only the percent profit earned by the two companies over the given years. Hence, these information are insufficient to answer the question.

S99. Ans.(c)

Sol. In 2010-11, profit earned by Company N was 70% Therefore, 170% of expenditure Rs. 119 crore Thus, required expenditure = $\frac{119}{170} \times 100$ = Rs. 70 Crores

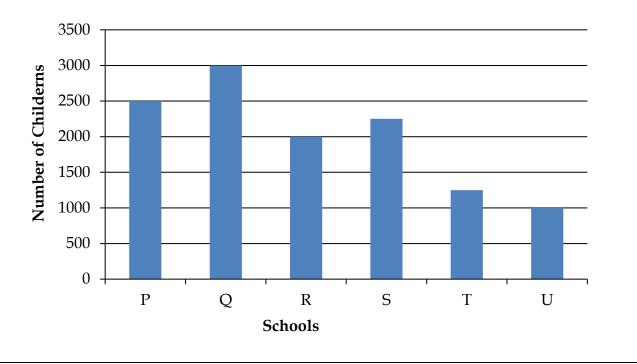
S100. Ans.(e)

Sol. Percent of increase in percent profit over that of the previous year for the given years is as follows:

Year 2006-07: $\frac{(30-25)}{25} \times 100 = 20\%$ 2007-08: $\frac{(40-30)}{30} \times 100 = 33.33\%$ 2008-09: $= \frac{(20-40)}{40} \times 100 = -50\%$ 2009-10: $\frac{(60-20)}{20} \times 100 = 200\%$ 2010-11: $\frac{(70-60)}{60} \times 100 = 16.66\%$

Directions (101-105): Study the graphs carefully to answer the questions that follow.

Total number of children in 6 different schools and the percentage of girls in them



| 50 45 40 35 30 25 20 15 10 10 | | | | |
|---|--|---|--|--|
| 5 | | - | | |
| Р | Q R S | T U | | |
| | Schools | | | |
| - | age of boys in schools R and U to | ogether? (rounded off to two digits | | |
| after decimal) (a) 78.55 | (b) 72.45 | (c) 76.28 | | |
| (d) 75.83 | (e) None of these | | | |
| Q102. What is the total number (a) 500 | (b) 600 | (c) 750 | | |
| (d) 850 | (e) None of these | | | |
| Q103. The total number of st number of students in school S | | nately what per cent of the total | | |
| (a) 89 | (b) 75 | (c) 78 | | |
| (d) 82 | (e) 94 | | | |
| Q104. What is the average num | ber of boys in schools P and Q to | gether? | | |
| (a) 1425 | (b) 1575 | (c) 1450 | | |
| (d) 1625 | (e) None of these | | | |
| - - | C C | chools P to the number of girls in | | |
| school Q? | (a) 27 : 20 | (b) 17 : 21 | | |
| (c) 20 : 27 (e) None of these | (d) 21 : 17 | | | |
| | | | | |
| S101. Ans.(d) Sol. Number of boys in school F = $\frac{2000 \times 72.5}{100} + \frac{1000 \times 82.5}{100}$ | R and U together | | | |
| 100 	100 	100 	= 1450 + 825 = 2275 | | | | |
| $\therefore \text{Required percentage} = \frac{2275}{3000} \times 10^{-10}$ | 100 = 75.83% | | | |
| 42 | | No. 1 APP for Banking & SSC Preparation | | |

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S102. Ans.(c) **Sol.** Number of boys in school T = $\frac{1250 \times 60}{100}$ = 750

S103. Ans.(a) **Sol.** Total number of students in school R = 2000 Total number of students in school S = 2250∴Required percentage = $\frac{2000}{2250} \times 100 \approx 89$

S104. Ans.(b)

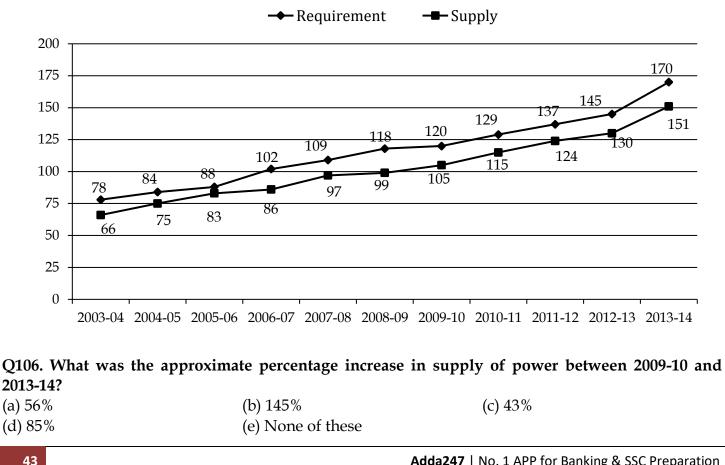
Sol. Required average $=\frac{1}{2}\left(\frac{2500 \times 60}{100} + \frac{3000 \times 55}{100}\right)$ $=\frac{1}{2}(1500+1650)=\frac{1}{2}\times3150=1575$

Power Supply Position in UP (in billion KWH)

S105. Ans.(c)

Sol. Required ratio = $\frac{2500 \times 40}{100}$: $\frac{3000 \times 45}{100}$ $= 25 \times 40 : 30 \times 45$ = 100: 135 = 20: 27

Directions (106-110): Study the graph and answer the following questions.

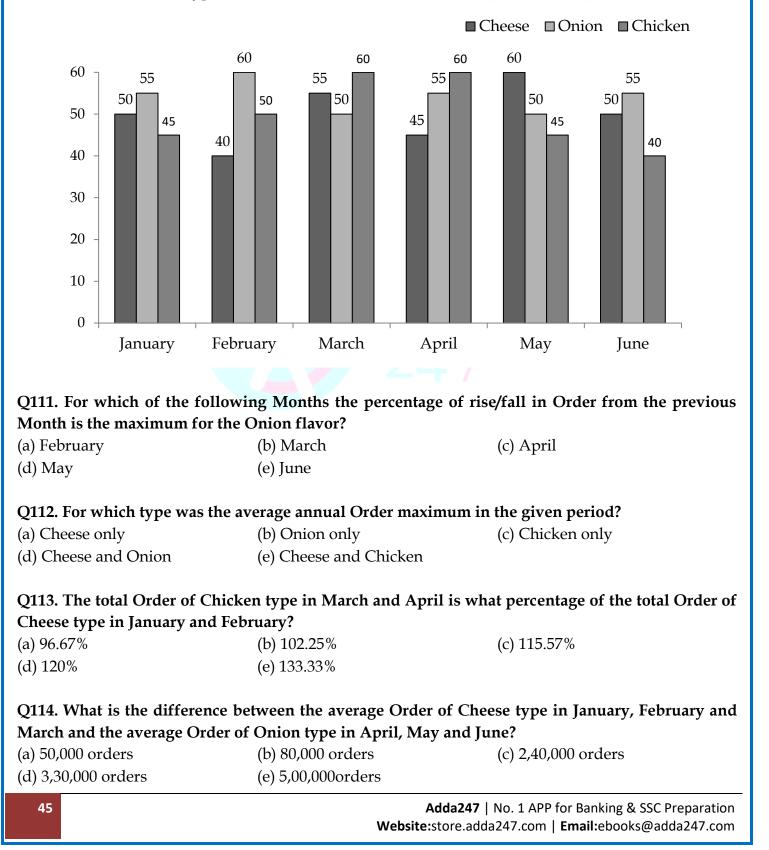


| - | l between requirement and su | pply from 2009 to the end of 2014 was | | |
|--|-------------------------------|---|--|--|
| (in billion) | | () / - | | |
| (a) 56 | (b) 85 | (c) 45 | | |
| (d) 76 | (e) None of these | | | |
| Q108. The requirement of pow supply in 2007-08? | er in 2013-14 was approximate | ely how many times the availability of | | |
| (a) 2.6 | (b) 1.75 | (c) 2.75 | | |
| (d) 2.0 | (e) None of these | | | |
| Q109. The percentage of grow percentage of growth in power (a) 3 (d) 7 | | n 2008-09 to 2013-14 was less than the 2008-09 by what figure? (c) 15 | | |
| Q110. Between 2008-09 and 2 demand by how many years? | 012-13, the power generation | has generally logged behind power | | |
| (a) 1 | (b) 2 | (c) 3 | | |
| (d) 4 | (e) None of these | 1 1 | | |
| S106. Ans.(c) Sol. In 2009-10 is 105 while in 2013-14 is 151. So percentage increases is $\frac{151-105}{105} \times 100 = \frac{46}{105} \times 100 = 43\%$ S107. Ans.(d) Sol. Total requirement = $120 + 129 + 137 + 145 + 170 = 701$ Total supply = $105 + 115 + 124 + 130 + 151 = 625$ Difference = $701 - 625 = 76$ | | | | |
| S108. Ans.(b) Sol. $170 = 97 \times x$ So, $x = \frac{170}{97} = 1.75$ | | CAREERPOWER AN IIT/IIM ALUMNI COMPANY | | |
| S109. Ans.(d) Sol. In 2008-09 to 2013-14, % Gr In 2003-04 to 2008-09 growth= ² | 110 | IBPS RRB PO COMBO | | |
| So, more ≈ 51 - 44 = 7% S110. Ans.(c) Sol. In 2008-09 demand was 1 2013 means 3 years. | 18 which completed in 2012- | 85 TOTAL TESTS • 35 Full Length Mocks • 50 Practice Sets Bilingual • E-Books, Study Notes etc. | | |

Directions (111-115): Dominos prepares Pizzas of three different types - Cheese, Onion and Chicken.

The production of the three types over a period of six Months has been expressed in the bar-graph provided below. Study the graph and answer the questions based on it.

Order of three different types of Dominos Pizzas over the Months (in lakh orders)



Q115. What was the approximate decline in the Order of Chicken type in June as compared to the Order in April?

| (a) 50% | (b) 42% | (c) 33% |
|---------|-----------|---------|
| (d) 25% | (e) 22.5% | |

S111. Ans.(b)

Sol. The percentage rise/fall in Order from the previous Month for Onion type during various Months are:

In February = $\left[\frac{(60-55)}{55} \times 100\right]$ % = 9.09% (increase) In March = $\left[\frac{(60-50)}{60} \times 100\right]$ % = 16.67% (decrease) In April = $\left[\frac{(55-50)}{55} \times 100\right]$ % = 10% (increase) In May = $\left[\frac{(55-50)}{55} \times 100\right]$ % = 9.09% (decrease) In June = $\left[\frac{(55-50)}{50} \times 100\right]$ % = 10% (increase) \therefore Maximum change is decrease of 16.67% during March.

S112. Ans.(b)

Sol. Average annual Orders over the given period for various types are: For Cheese type = $\left[\frac{1}{6} \times (50 + 40 + 55 + 45 + 60 + 50)\right]$ lakh orders = 50 lakh orders. For Onion type = $\left[\frac{1}{6} \times (55 + 60 + 50 + 55 + 50 + 55)\right]$ lakh orders = 54.17 lakh orders. For Chicken type = $\left[\frac{1}{6} \times (45 + 50 + 60 + 60 + 45 + 40)\right]$ lakh orders = 50 lakh orders. \therefore Maximum average Order is for Onion type.

S113. Ans.(e)

Sol. Required percentage = $\left[\frac{(60 + 60)}{(50 + 40)} \times 100\right]\% = \left(\frac{120}{90} \times 100\right)\% = 133.33\%.$

S114. Ans.(e)

Sol. Average Order of Cheese type in January, February and March = $\left[\frac{1}{3} \times (50 + 40 + 55)\right]$ = $\left(\frac{145}{3}\right)$ lakh orders.

Average Order of Onion type in April, May and June = $\left[\frac{1}{3} \times (55 + 50 + 55)\right]$

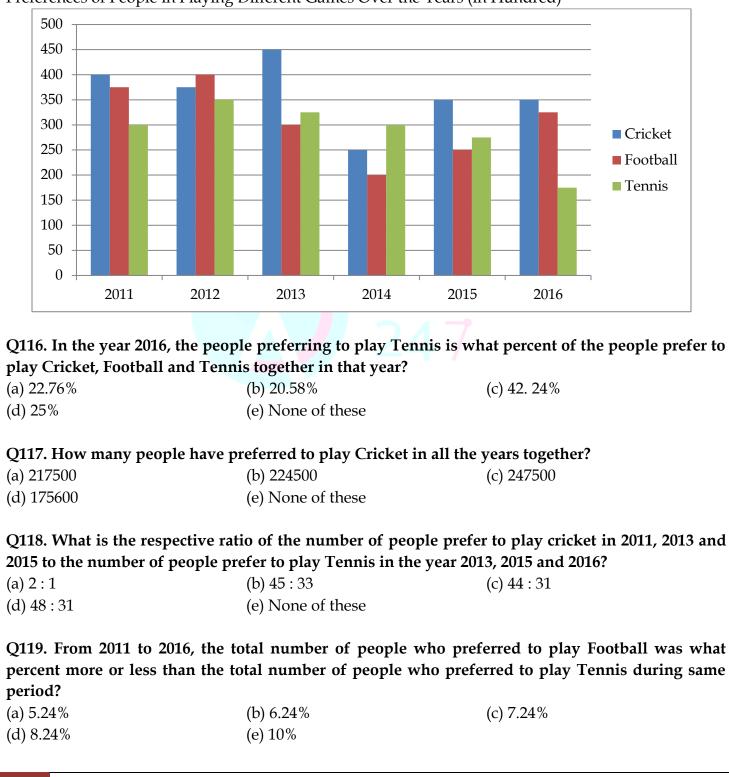
 $=\left(\frac{160}{3}\right)$ lakh orders.

: Difference =
$$\left(\frac{160}{3} - \frac{145}{3}\right) = \frac{15}{3} = 5$$
 lakh orders = 5,00,000 orders.

S115. Ans.(c)

Sol. Percentage decline in the Order of type Chicken in June as compared to the Order in April = $\left[\frac{(60-40)}{60} \times 100\right]\% = \left(\frac{20}{60} \times 100\right)\% = 33.33\% \approx 33\%.$

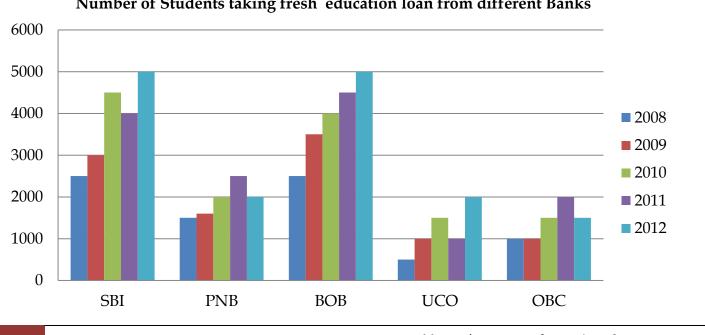
Directions (116-120): Study the following Graph carefully and answer the questions given below:



Preferences of People in Playing Different Games Over the Years (in Hundred)

| Q120. The no. of people prefe people preferring to play tenni (a) $23\frac{4}{11}\%$ (d) $33\frac{9}{13}\%$ | 1 0 | what percent fewer than the number of (c) $42\frac{7}{13}\%$ |
|--|--|--|
| S116. Ans.(b) Sol. Desired% = $\frac{175}{350 + 325 + 175} \times$ | $100 = \frac{175}{850} \times 100 = 20.58\%$ | |
| S117. Ans.(a) Sol. Total people playing cricke | t over all years = 2,17,500 | |
| S118. Ans.(d) Sol. Ratio = $\frac{400 + 450 + 350}{325 + 275 + 175} = \frac{1200}{775}$ | $\frac{0}{5} = 48:31$ | |
| S119. Ans.(c) Sol. Desired % = $\frac{1850 - 1725}{1725} \times 100$ | $=\frac{125}{1725} \times 100 = 7.24\%$ | |
| S120. Ans.(b) Sol. Desired % = $\frac{275 - 175}{275} \times 100 =$ | $\frac{400}{11} = 36\frac{4}{11}\%$ | |
| | | |

Directions (121–125): Read the given bar graph and answer the following questions.



Number of Students taking fresh education loan from different Banks

| ·• · · · | O in 2009 and 20% from PNB in | from UCO in 2009 and PNB in 2010 were | |
|------------------------------|-------------------------------|---|--|
| (a) 630 | (b) 650 | (c) 600 | |
| (d) 750 | (e) 840 | (c) 000 | |
| (4)700 | | | |
| Q122. In 2007, no of defa | ulters in SBI was 5%. Howeve | r each year no of defaulters increases by | |
| - | | the number of defaulters of SBI in the | |
| Month 2009 and 2012? | | | |
| (a) 1500 | (b) 2000 | (c) 1325 | |
| (d) 1456 | (e) Cannot be determined | 1 | |
| | | | |
| | | n no. of students taking loan from Bank | |
| BOB from the previous ye | e e | | |
| (a) 2008 | (b) 2009 | (c) 2010 | |
| (d) 2012 | (e) None of these | | |
| | | | |
| C C | - | ban sanctioned by OBC bank all over the | |
| | mount sanctioned by OBC in a | | |
| (a) 1055600000 | (b) 1055800000 | (c) 162000000 | |
| (d) 105000000 | (e) None of the above | 7 | |
| 0125 What is the ratio of | Number of students taking Edi | acation Loans from SBI and BOB together | |
| | | ion loans in 2010 and 2011 together? | |
| (a) 8 : 5 | (b) 5 : 7 | (c) 7 : 5 | |
| (d) 9 : 7 | (e) None of these | | |
| (4) > 1 > | | | |
| S121. Ans.(a) | | | |
| Sol. | | | |
| Students taking loan from | UCO in 2009 = 1000 | IBPS | |
| Defaulters (UCO) = 23% of | 1000 = 230 | | |
| Person taking loan from PN | NB in 2010 = 2000 | IBPS RRB (PO+CLERK) | |
| Defaulters (PNB) = 20% of | 2000 = 400 | СОМВО | |
| Total desired defaulters = 2 | 230 + 400 = 630 | COMBO | |
| | | 170 TOTAL TESTS | |
| S122. Ans.(e) | | · · · · · · · · · · · · · · · · · · · | |
| Sol. Cannot be determir | ned because no. of students | • 70 Full Length Mocks | |
| taking a loan from SBI in 20 | 007 is unknown. | •100 Practice Sets Bilingual | |
| | | •E-Books, Study Notes etc. | |
| | | | |

S123. Ans.(b)

Sol. From graph, it is clear that in 2009, difference between no. of students taking a loan is highest as compared to previous year.

S124. Ans.(e)

Sol. No. of students taking education loan from OBC bank all over the year = 1000 + 1000 + 1500 + 2000 + 1500 = 7000Total loan amount sanctioned over the years = $7000 \times 1,75,000$ = Rs. 1,22,50,00,000

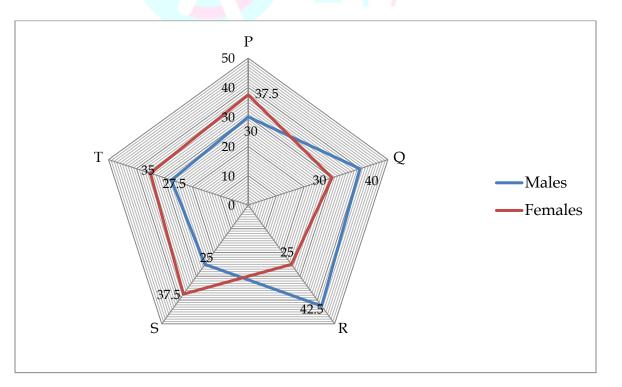
S125. Ans.(c)

Sol.

SBI : 2500 + 3000 + 4500 + 4000 + 5000 = 19000BOB : 2500 + 3500 + 4000 + 4500 + 5000 = 19500Total no. of students taking loan in 2010 = 13500Total no. of students taking loan in 2011 = 14000Desired ratio = $\frac{19000+19500}{13500+14000} = \frac{38500}{27500} = \frac{7}{5}$

Directions (126-130): Study the following Radar graph carefully and answer the questions given below.

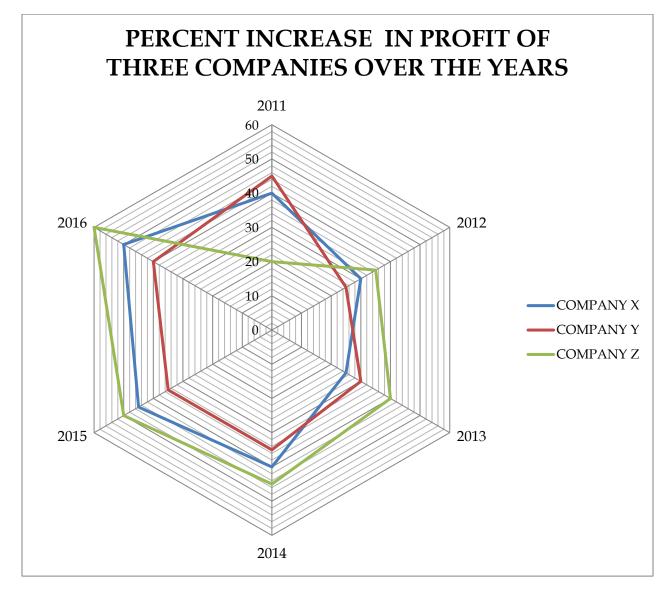
Number of students studying in different universities in a year (Numbers in Lac).



| Q126. What is the average numb | per of females in all the universit | ies together? | | |
|--|--|-----------------------------------|--|--|
| (a) 3300000 | (b) 350000 | (c) 320000 | | |
| (d) 3200000 | (e) None of these | | | |
| | | | | |
| together? | r of students (males and female | s together) in University P and R | | |
| (a) 1300000 | (b) 1350000 | (c) 1400000 | | |
| (d) 14500000 | (e) None of these | | | |
| | | | | |
| _ | | m University P and Q together to | | |
| the number of males in the Univ (a) 27 : 32 | (b) 27 : 28 | (c) 25 : 28 | | |
| (d) 28 : 27 | (e) None of these | (C) 23 . 26 | | |
| (u) 20 . 27 | (e) None of these | | | |
| Q129. The number of males in U | Jniversity Q are what per cent of | the total number of students | | |
| (males and females together) in | University S? | | | |
| (a) 68 | (b) 62 | (c) 66 | | |
| (d) 64 | (e) None of these | | | |
| | nales in University T increases females tog <mark>e</mark> ther) in that universi | by 50%, what would be the total | | |
| (a) 7526000 | (b) 76250000 | (c) 7625000 | | |
| (d) 75260000 | (e) None of these | (c) / 020000 | | |
| (a) 10200000 | | | | |
| S126.Ans.(a) | | | | |
| Sol. | | | | |
| Required No. = $\frac{37.5+30+25+37.5+35}{5}$ | $r = \frac{165}{5}$ lakhs = 3300000 | | | |
| | | | | |
| S127. Ans.(e) | | | | |
| Sol. Required No.(30 + 37.5 + 42 =135 lakhs = 13500000 | 2.5 + 25) | | | |
| -155 Takits - 15500000 | | | | |
| S128. Ans.(b) | | | | |
| Sol. Required Ratio = $(37.5 + 30) : (42.5 + 27.5)$ | | | | |
| = 27 : 28 | | | | |
| | | | | |
| S129. Ans.(d) | | | | |
| Sol. Required $\% = \frac{40}{25 + 37.5} \times 100$ | | | | |
| = 64% | | | | |
| | | | | |

S130. Ans.(c) Sol. Required no. = $(27.5 \times \frac{150}{100}) + 35$ = 76.25 lakhs = 7,62,5000

Directions (131-135): Study the graph carefully to answer the questions that follow.



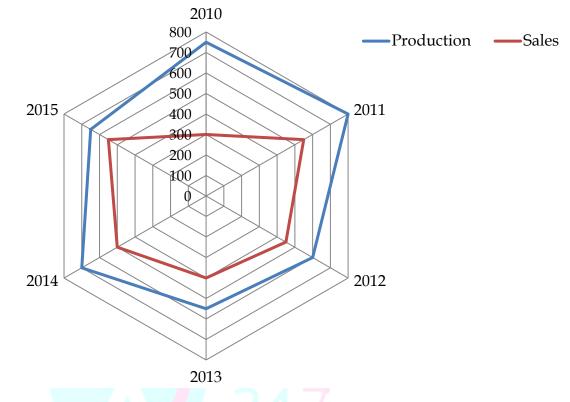
Q131. If profit for company Y in 2012 is 2000 and expenditure in 2013 for company Y is 50,000, then
what is the total revenue in 2013 for Y? Give that total revenue = expenditure + profit.(a) 52600(b) 54200(c) 53280(d) 55800(e) None of these

| Q132. If profit in year 2015 for company Z is 3000 and profit of company X in 2013 is equal to profit | | | |
|---|----------|----------|--|
| of company Z in 2014 then what is the profit of company X in 2013 | | | |
| (a) 1500 | (b) 4000 | (c) 3500 | |
| (d) 2000 | (e) 2500 | | |

| Q133. What is the average perc | entage increase in profit for o | company Y over all the years. |
|---|--|---|
| (a) 49% | (b) 32% | (c) 23% |
| (d) 38% | (e) 35% | |
| Q134. What was the approximation year 2014 from its previous year | | at increase of profit of company X in the |
| (a) 60% | (b) 65% | (c) 55% |
| (d) 50% | (e) 70% | |
| is the total profit earned by the | em in year 2013? | y company Z in 2014 is 43500 then what |
| (a) 25,000 | (b) 35,000 | (c) 40,000 |
| (d) 50,000 | (e) None of these | |
| S131. Ans.(a) Sol. Profit in 2013 = $2000 \times \frac{130}{100}$ = 2600 Total revenue = 50,000 + 2600 = 52600 S132. Ans.(d) Sol. Profit of company X in 201 = 2000 S133. Ans.(e) Sol. Required average = $\frac{45 + 25 + 25}{45 + 25 + 25}$ = $\frac{210}{4}$ | $3 = \frac{3000 \times 100}{150}$ | |
| =35% | | |
| S134. Ans.(a) | 25 | |
| Sol. Required percentage = $\frac{40 - 25}{25}$ | $\frac{25}{5} \times 100$ | CHALLENGER SERIES |
| $=\frac{15}{25} \times 100$ | | |
| = 60% | | DATA INTERPRETATION |
| S135. Ans.(d) | | for SBI/IBPS PO 2017 |
| Sol. Profit earned by Y in 2013 | $=\frac{27000 \times 100}{27000 \times 100}$ | 10 MOCK TESTS |
| = 20,000 | 135 | |
| Profit earned by Z in 2013 = $\frac{435}{2}$ | 00 	imes 100 | Based on Latest Pattern |
| = 30,000 | 145 | Bilingual |
| Total profit = 50,000 | | Price : ₹399/- |
| | | visit: store.adda247.com |
| | | |

Directions (136-140): Study the following graph carefully and answer the following question.

The graph below represents the production (in tonnes) and sales (in tonnes) of a company X from 2010-2015



Q136. If production of company X and another company Y is in the ratio 14 : 13 in year 2014 then production of company Y in 2014 is what percent more or less than production of company X in 2010.

| (a) $13\frac{1}{3}\%$ | (b) $33\frac{1}{3}\%$ |
|-----------------------|-----------------------|
| (d) $16\frac{2}{3}\%$ | (e) None of these |

Q137. If production of company X in 2016 is 120% of its production in 2015 then what is the ratio of sales company X in 2010 to the production of company X in 2016.

| (a) $\frac{7}{9}$ | (b) $\frac{13}{20}$ | (c) $\frac{20}{13}$ |
|--------------------|---------------------|---------------------|
| (d) $\frac{5}{13}$ | (e) $\frac{7}{13}$ | |

Q138. If production cost is Rs. 1,500 per tonne and sale is at the rate of Rs. 2,800 per tonne over all years then what is the ratio of profit or loss of company X in 2013 to the profit or loss in year 2014. (Profit = Income through sales – Production cost)

| (a) $\frac{59}{70}$ | (b) $\frac{20}{23}$ | $(c)\frac{53}{94}$ |
|---------------------|---------------------|--------------------|
| (d) $\frac{27}{38}$ | (e) None of these | |

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(c) $66\frac{2}{3}\%$

Q139. If production cost in year 2013 is 150 per tonne and production cost increases by 10% every year after 2013 then what is the average production cost of company X over all years after year 2013? (a) 12,20,239 (c) 2,22,467 (b) 1,16,737.5 (d) 1,33,647 (e) None of these Q140. If 35% of production of company X in 2010 is added to the sale of company X in 2012 then total sale of company X in 2012 is what percent of the total sale of company X over all the years now? (approximately) (a) 14% (b) 18% (c) 35% (d) 28% (e) 24% S136. Ans.(a) **Sol.** Production of company Y in $2014 = \frac{700}{14} \times 13 = 650$ Required percentage = $\frac{100}{750} \times 100$ $=\frac{40}{3}\%$ $13\frac{1}{3}\%$ less S137. Ans.(d) **Sol.** Production of company X in $2016 = \frac{120}{100} \times 650 = 780$ Required ratio = $\frac{300}{780}$ $=\frac{5}{13}$ S138. Ans.(a) **Sol.** Cost of production in $2013 = 1500 \times 550$ = Rs. 8,25,000 КК**РО**М Total Income through sales = 2800×400 = Rs. 11, 20,000 Profit in 2013 = 11,20,000 - 8,25,000 **IBPS RRB PO** = Rs. 2,95,000 Cost of production in $2014 = \text{Rs.} 1500 \times 700$ COMBO = Rs. 10,50,000 Total Income through sales = Rs. 2800×500 **85 TOTAL TESTS** = Rs. 14,00,000 35 Full Length Mocks Profit in 2014 = 3.50.000 Required ratio = $\frac{295}{350} = \frac{59}{70}$ 50 Practice Sets Bilingual E-Books, Study Notes etc.

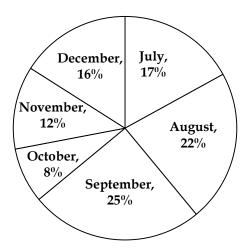
S139. Ans.(b) Sol. Total production cost in 2014 and 2015 = $165 \times 700 + 181.5 \times 650$ = 1,15,500 + 1,17,975 = 2,33,475 Required average = $\frac{2,33,475}{2}$ = 1,16,737.5

S140. Ans.(e) Sol. Total sale of company X in 2012 = $450 + \frac{35}{100} \times 750 = 712.5$ Required percentage = $\frac{712.5}{300 + 550 + 450 + 400 + 500 + 550 + 262.5} \times 100$ = $\frac{712.5}{3012.5} \times 100 = 23.65\% \sim 24\%$

Directions (141-145): Study the following pie-chart and table carefully and answer the questions given below:

Percentage wise distribution of the number of mobile phones sold by a shopkeeper during six months

Total number of mobile phones sold = 45000



The ratio between the numbers of mobile phones sold of Company A and Company B during six months

| Month | Ratio | |
|-----------|-------|--|
| July | 8:7 | |
| August | 4:5 | |
| September | 3:2 | |
| October | 7:5 | |
| November | 7:8 | |
| December | 7:9 | |

Q141. What is the ratio of the number of mobile phones sold of Company B during July to those sold during December of the same company?

(a) 119 : 145 (b) 116 : 135

(d) 119 : 130 (e) None of these

(c) 119 : 135

| | | uring November were sold at a discount, hth were sold without a discount? | | |
|--|------------------------------|--|--|--|
| (a) 882 | (b) 1635 | (c) 1638 | | |
| (d) 885 | (e) None of these | | | |
| | | | | |
| | - | each mobile phone sold of Company B obile phones of that company during the | | |
| (a) Rs. 6,49,900 | (b) Rs. 6,45,900 | (c) Rs. 6,49,400 | | |
| (d)Rs. 6,49,500 | (e) None of these | (0) 10: 0, 17, 100 | | |
| | | | | |
| Q144. The number of mobile percent of the number of mobile | | y A during July is approximately what y A during December? | | |
| (a) 110 | (b) 140 | (c) 150 | | |
| (d) 105 | (e) 130 | | | |
| September together? | | old of Company B during August and | | |
| (a) 10000 | (b) 15000 | (c) 10500 | | |
| (d) 9500 | (e) None of these | | | |
| S141. Ans.(c) Sol. | | | | |
| Total number of mobiles sold ir | | | | |
| Mobile phones sold by Compar | y B in the month of July = 7 | $650 \times \frac{7}{15} = 3570$ | | |
| Total numbers of mobile phone | s sold in the month of Decer | mber = $45000 \times \frac{16}{100} = 7200$ | | |
| Mobile phones sold by Compar | | | | |
| : Required ratio = $\frac{3570}{4050} = \frac{357}{405} = -$ | $\frac{119}{135} = 119:135$ | 16 | | |
| S142. Ans.(c) Sol. | | | | |
| Number of mobile phones sold in the month of November = $45000 \times \frac{12}{100} = 5400$ | | | | |
| Number of mobile phones sold by Company A in the month of November = $5400 \times \frac{7}{15} = 2520$ | | | | |
| \therefore Number of mobile phones sold without discount in the month of November by Company A | | | | |
| $= 2520 \times \frac{65}{100} = 2520 \times 0.65 = 1638$ | | | | |
| $-2520 \times \frac{100}{100} - 2520 \times 0.05 - 1050$ | | | | |
| S143. Ans. (d) Sol. | | | | |
| Number of mobile phones sold in the month of October = $45000 \times \frac{8}{100} = 3600$ | | | | |
| 100 | | | | |
| : Number of mobile phones sold by Company B in the month of October = $3600 \times \frac{5}{12} = 1500$: Total profit earned by Company B in the month of October = $1500 \times 433 = 649500$ | | | | |

 \therefore Total profit earned by Company B in the month of October = $1500 \times 433 = 649500^{\circ}$

S144. Ans.(e)

Sol. Number of mobile phones sold in the month of July = $45000 \times \frac{17}{100} = 7650$ Number of mobile phones sold by Company A in the month of July = $7650 \times \frac{8}{15} = 4080$ Number of mobile phones sold in the month of December = $45000 \times \frac{16}{100} = 7200$ Number of mobile phones sold by Company A in the month of December = $7200 \times \frac{7}{16} = 3150$ \therefore Required $\% = \frac{4080}{3150} \times 100 = 129.52 \approx 130$

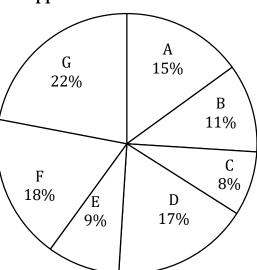
S145. Ans.(a)

Sol.

Number of mobile phones sold in the month of August = $\frac{22}{100} \times 45000 = 9900$ Number of mobile phones sold in the month of September = $\frac{25}{100} \times 45000 = \frac{1}{4} \times 45000 = 11250$ Number of mobile phones sold by Company B in the month of August = $9900 \times \frac{5}{9} = 5500$ Number of mobile phones sold by Company B in September = $11250 \times \frac{2}{5} = 4500$ Total number of mobile phones sold in August and September by Company B = 5500 + 4500= 10000

Directions (146-150): These questions based on the following graphs

Classification of appeared candidates in a competitive test from different states and qualified candidates from those states.



Appeared candidates = 45000.

| Qualified candidates = 9000 | | | | |
|---|---|--|--|--|
| | | | | |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | |
| | the number of appeared candidate s from sates A and F together? (b) 11 : 13 | es from states C and E together to that (c) 13 : 27 | | |
| (d) 17 : 27 | (e) None of these | × / | | |
| Q147. In which state, the candidates is minimum? (a) C (d) E | e percentage of qualifies candida (b) F (e) G | (c) D | | |
| Q148. What is the differen G? | ice between the number of qualifi | ed candidates of states D and those of | | |
| (a) 690 (d) 720 | (b) 670 (e) None of these | (c) 780 | | |
| · · · | tage of qualified candidates with her? (rounded to two decimal place | respect to appeared candidates from es) | | |
| (a) 23.11 | (b) 24.21 | (c) 21.24 | | |
| (d) 23 | (e) None of these | | | |
| Q150. What is the ratio between the number of candidates qualified from states B and D togetherto the number of candidates appeared from states 'C', respectively?(a) 8 : 37(b) 11 : 12(c) 37 : 40(d) 7 : 37(e) None of these | | | | |
| S146. Ans.(a) Sol. Required ratio $=\frac{8+9}{15+18}=17:33.$ | | | | |
| S147. Ans.(e) Sol. Here, do not find the ratio of number of qualified candidates that of the appeared. Simply check the ratio of % qualified candidates with respect to the appeared is the least for which state. Ans. = G. | | | | |

S148. Ans.(d)

Sol. Required difference = (21 - 13)% of 9000 = 720.

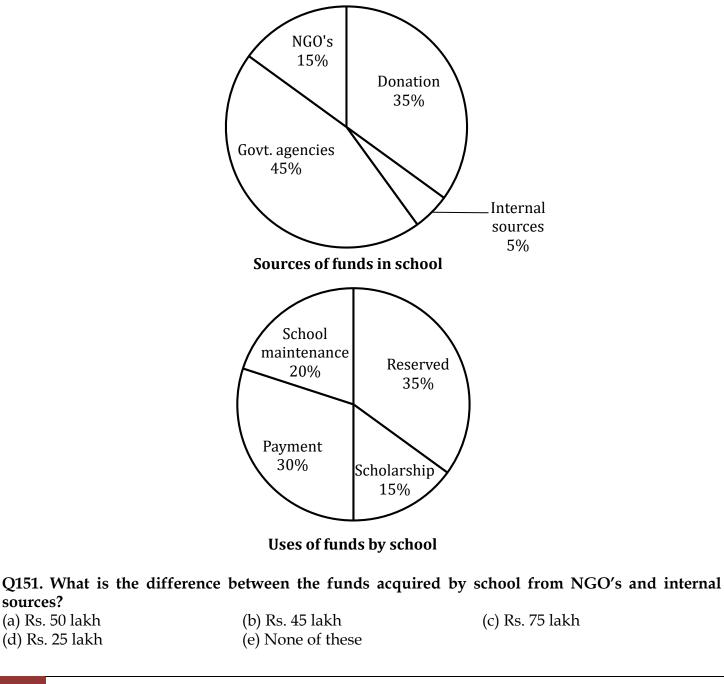
S149. Ans.(b)

Sol. Required % = $\frac{(16+7)\% \text{ of } 9000}{(11+8)\% \text{ of } 45000} \times 100 = 24.21\%$

S150. Ans.(c) Sol. Required ratio = $\frac{(16+21)\% of 9000}{8\% of 45000} = 37:40$

Directions (151-155): Study the following pie-charts carefully and answer the questions given below it.

The entire fund that school gets from different sources in equal to Rs. 500 lakh



| Q152. If the school managed school maintenance from the government agencies fund only, then how much fund from government agencies would still left for other use? | | | | |
|---|--|---|--|--|
| (a) Rs. 120 lakh | (b) Rs. 150 lakh | (c) Rs. 110 lakh | | |
| (d)Rs. 95 lakh | (e) None of these | | | |
| Q153. If scholarship has to of donation fund used for | - | fund, then what is the approximate per cent | | |
| (a) 43% | (b) 53% | (c) 37% | | |
| (d) 45% | (e) 32% | | | |
| O154 What is the total am | ount used by the school for p | avmont? | | |
| (a) Rs. 100 lakh | (b) Rs. 110 lakh | (c) Rs. 150 lakh | | |
| (d) Rs. 140 lakh | (e) None of these | (c) 10. 100 min | | |
| | | | | |
| | | ol from government agencies? | | |
| (a) Rs. 220 lakh | (b) Rs. 310 lakh | (c) Rs. 255 lakh | | |
| (d) Rs. 225 lakh | (e) None of these | | | |
| | | rom NGO-Percentage of fund acquired from | | |
| internal sources) of 500 lake | | | | |
| $= (15 - 5)\% \text{ of } 500 \text{ lakh} = \frac{500}{10}$ | $\frac{1}{100}$ lakh = Rs. 50 lakh | | | |
| | | | | |
| S152. Ans.(e) | tagongias | | | |
| Sol. Fund from governmen 500×45 P 225 1 11 | tagencies | | | |
| $=\frac{500 \times 45}{100}$ = Rs. 225 lakh | | | | |
| Expenses in school mainten | ance | | | |
| $=\frac{500 \times 20}{100}$ = Rs. 100 lakh | | | | |
| $\therefore \text{ Remaining found} = (225 - 125 + 125$ | 100) lakh | | | |
| = Rs. 125 lakh | | | | |
| S153. Ans.(a) | | | | |
| Sol. Fund from donation = | $\frac{500 \times 35}{100}$ = Rs. 175 lakh | | | |
| Scholarship amount = $\frac{15 \times 5}{100}$ | $\frac{100}{2}$ = Rs. 75 lakh | खुनाहटेड इंडिया UNITED INDIA | | |
| $\therefore \text{ Required percentage} = \frac{100}{17}$ | | | | |
| = 43% (approx.) | $\frac{-1}{5}$ × 100 - 42.05% | OICL-AO UIIC | | |
| - 40% (approx.) | | Generalist Assistant | | |
| S154. Ans.(c) | | COMBO | | |
| Sol. Total amount used by the school for payment | | | | |
| $=\frac{500 \times 30}{100}$ = Rs. 150 lakh | | 40 TOTAL TEST | | |
| S155. Ans.(d) | | • 10 + 10 PRE MOCKS Bilingual | | |
| Sol. Fund acquired from government agencies | | | | |
| $=\frac{500 \times 45}{100}$ = Rs. 225 lakh • 10 + 10 MAINS MOCKS | | | | |
| 100 | | | | |
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Directions (156-160): In the following table, the Investment and profit of three Companies in different countries is given.

| Investment (in mn \$.) | | | Profit (in mn \$.) | | | |
|------------------------|-------|---------|--------------------|-------|---------|-----------|
| State | TCS | Infosys | Accenture | TCS | Infosys | Accenture |
| Singapore | 15000 | - | 25000 | _ | 8000 | 12500 |
| UK | _ | 7000 | 8000 | _ | _ | 14000 |
| UAE | 4000 | 5000 | 4500 | — | _ | _ |
| Qatar | 9000 | 10000 | _ | 4500 | 6000 | _ |
| Malaysia | _ | - | 17000 | 20000 | 30000 | 40000 |

Note: Some values are missing. You have to calculate these values as per data given in the questions:-

Q156. If TCS invested his amount in SINGAPORE state for 9 years and Accenture invested his amount in the same country for 10 years then find the total profit made by all of them from **SINGAPORE?**

(a) mn \$ 29250 (d) mn \$31200 (b) mn \$ 24250 (e) None of these

Q157. If the total profit earned from UK by all of them is mn \$ 32375 and each invested for 9 years then find the ratio of investment of TCS in UK to the profit of Infosys from SINGAPORE? (c) 8:13

(a) 16 : 7 (b) 7 : 16 (d) 13:8

(e) None of these

Q158. If TCS, Infosys and Accenture invested in UAE for 5 years, 8 years and 6 years respectively then profit earned by Accenture from UAE is what % of the profit earned by TCS and Infosys together from the same Country, if total profit earned by all of them from UAE state is 8700 mn \$. (c) 55%

| (a) 45% | (b) 50% |
|---------|-------------------|
| (d) 40% | (e) None of these |

Q159. In Malaysia state total Investment of TCS and Infosys is 85000 mn \$, while TCS and Infosys invested their amount for 4 years and 6 years respectively in the same country, then find the number of years that accenture invested his amount?

| (a) 8 years | (b) 9 years | (c) 20 years |
|-------------------------|-------------------|--------------|
| (d) Can't be determined | (e) None of these | |

Q160. Average Investment made by all of them in Qatar is \$ 10,000 mn and average profit earned by all of them from the same state is \$ 6000 mn, then profit earned by Accenture in the same country is what percent more/less than the amount invested by Accenture in the same state?

(b) $37\frac{6}{7}\%$ (c) $32\frac{7}{11}\%$ (a) $35\frac{1}{2}\%$ (e) $31\frac{9}{11}\%$ (d) $33\frac{7}{11}\%$

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(c) mn \$27250

S156. Ans.(c) Sol. 15000 × 9 x $\frac{1}{25000 \times 10}_{27} = \frac{1}{12500}$ $rac{1}{50} = rac{1}{12500}$ x = \$6750 mn ∴ Required profit = 6750 + 8000 + 12500 = \$ 27250 mn S157. Ans.(b) Sol. $\frac{7000}{8000} = \frac{P_{infosys}}{14000}$ $P_{\text{Infosvs}} = \$12250 \text{mn}$ $P_{tcs} = 32375 - 12250 - 14000$ $P_{tcs} = $6125mn$ Let Investment of TCS in UK = x $\therefore \frac{x}{7000} = \frac{6125}{12250}$ x = \$ 3500mn Required Ratio = (3500) : (8000) = 7:16 S158. Ans.(a) Sol. TCS : Infosys : Accenture **Profit** : (4000×5) : (5000×8) : (4500×6) 20 : 40 27 : $\therefore P_{tcs} = \frac{20}{87} \times 8700$ Trick : =\$ 2000 mn $P_{infosys} = \frac{40}{87} \times 8700 = $4000 mn$ Required value = $\frac{27}{40+20}$ × 100 = 45% $P_{accenture} = \$ 2700 mn$ Required % = $\frac{2700}{6000} \times 100 = 45\%$ S159. Ans.(c) Sol. $\frac{\mathbf{x} \times \mathbf{4}}{(85,000 - \mathbf{x}) \ 6} = \frac{20,000}{30,000}$ 2x 2 $\overline{3(85,000-x)} = \overline{3}$ $6x = 2 \times 3 \times 85000 - 6x$ $12x = 6 \times 85000$ x = \$42500 mn $I_{tcs} = $42500 mn$

| $\therefore I_{infosys} = $42500 mn$ |
|---|
| Let Required years = y |
| $\therefore \frac{42500 \times 6}{17,000 \times y} = \frac{30,000}{40,000}$ |
| y = 20 years |
| |
| S160. Ans.(e) |
| Sol. |
| $I_{accenture} = 30000 - 9000 - 10000$ |
| = \$ 11000 mn |
| $P_{accenture} = 18000 - 4500 - 6000$ |
| = \$ 7500 mn |
| 11000 7500 |
| Required % = $\frac{11000-7500}{11000} \times 100$ |

Directions (161-165): A person purchased 5 Gadgets from a shop and sold them online. Given below is the data showing cost price, selling price and profit/loss percentage.

| | C.P. (in Rs.) | Profit/Loss% | S.P. (in Rs.) |
|----------------|---------------|--------------|---------------|
| Smartphone | 32445 | | 40556.25 |
| Laptop | - | Profit-15% | 40940 |
| Tablet | 22150 | Loss-12% | _ |
| Digital camera | 28295 | _ | 31140 |
| Smart Watch | _ | Profit-25% | 7075 |

Q161. Cost price of Laptop is what percent of selling price of Tablet? (approximate)

| (a) 138% | (b) 182% | (c) 142% |
|----------|----------|----------|
| (d) 154% | (e) 186% | |

Q162. If there has been a profit of 12% on Tablet instead of 12% loss. Then the new S.P. is how much more than the original S.P.?

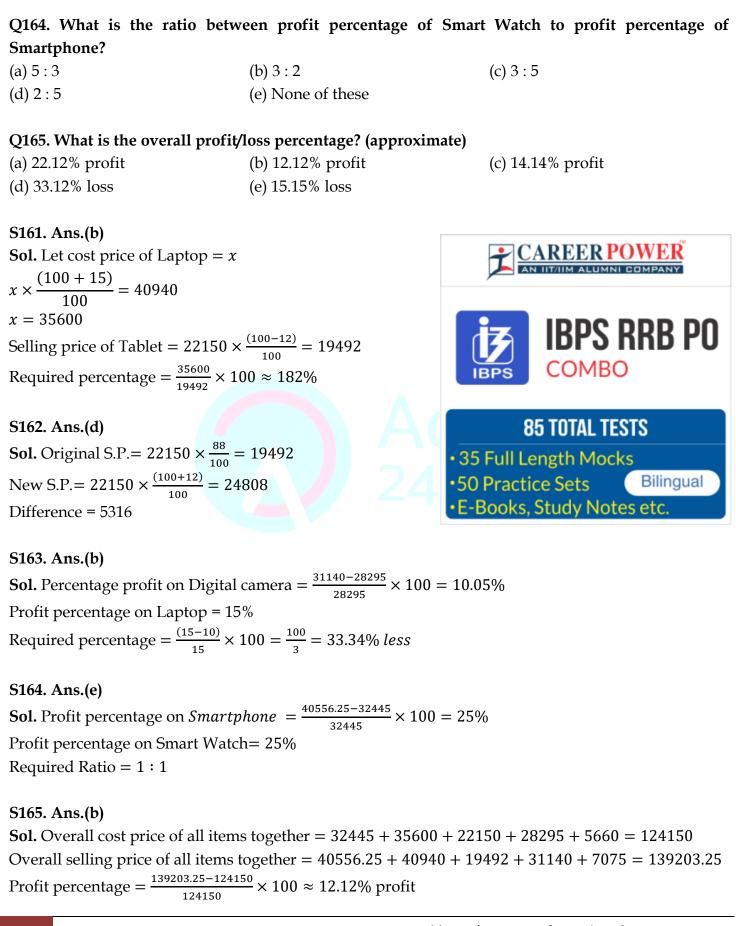
| (a) 5216 | (b) 5396 | |
|----------|-------------------|--|
| (d) 5316 | (e) None of these | |

Q163. Profit percentage on Digital camera is what percent more/less than profit percentage on Laptop?

| (a) 50% more | (b) 33.34% less | (c) 33.67% more |
|--------------|-----------------|-----------------|
| (d) 50% less | (e) 150% less | |

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(c) 5336



Directions (166-170): Study the table and answer the given questions.

| Company | Total | Out of total number of employees | | |
|---------|------------------------|---------------------------------------|--|------------------------------------|
| | number of Employees | Percentage Of Science graduates | Percentage of Commerce graduates | Percentage of Arts graduates |
| М | 1050 | 32% | - | - |
| Ν | 700 | - | 31% | 40% |
| 0 | - | 30% | 30% | - |
| Р | - | _ | 40% | 20% |
| Q | - | 35% | 50% | - |

Data related to the number of employees in five different companies in December 2012

Note:

- (I) Employees of the given companies can be categorised only in three types: Science graduates, Commerce graduates and Arts graduates
- (II) A few values are missing in the table (indicated –). A candidate is expected to calculate the missing value, if it is required to answer the given question, on the basis of the given data and information.

Q166. What is the difference between the number of Arts graduate employees and Science graduate employees in Company N?

| (a) 87 | (b) 89 | (c) 77 |
|--------|--------|--------|
| (d) 81 | (e) 73 | |

Q167. The average number of Arts graduate employees and commerce graduate employees in Company Q was 312. What was the total number of employees in Company Q?

| (a) 920 | (b) 960 | (c) 112 |
|----------|----------|---------|
| (d) 1040 | (e) 1080 | |

Q168. If the ratio of the number of Commerce graduate employees to that of Arts graduate employees in Company M was 10 : 7, what was the number of Arts graduate employees in M? (a) 294 (b) 266 (c) 280

(d) 308 (e) 322

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| Q169. The total number of em December 2013. If 20% of the t Science graduates, what was | total number of e | mployees in Comp | any N in December 2013 were | |
|--|--|---|-----------------------------|--|
| December 2013? | | | | |
| (a) 224 | (b) 266 | (c) | 294 | |
| (d) 252 | (e) 168 | | | |
| Q170. The total number of emp Company O. If the difference b that in Company O was 180, wh (a) 1200 (d) 900 | etween the numb | per of Arts graduate umber of employee | employees in Company P and | |
| S166. Ans.(c) | | | | |
| Sol. Total number of employees | in company $N = 2$ | 700 | | |
| Percentage of Science graduate e | | | | |
| 5 | | | | |
| Now, percentage difference betw | veen Arts graduat | e and science gradua | ate employees | |
| = (40 - 29)% = 11% | | | | |
| 11% of 700 = 77 | | | | |
| Therefore, difference = 77 | | | | |
| S167. Ans.(b) Sol. The percentage of Arts grad Now, the percentage of Arts grad Average = 312 Therefore, the total number of er Let the total employees in Comp Then, 65% of x = 2×312 x = 960 | duate empl <mark>oy</mark> ees a mployees in comm | and Commerce and A | Arts = 50 + 15 = 65% | |
| S168. Ans.(a) Sol. The percentage of commerce | e graduate and Aı | ts graduate employe | ees in company M | |
| = 100 - 32 = 68% | | - * * | | |
| Now, the percentage of Arts gra- | duate employees : | $=\frac{68\times7}{17}=28\%$ | | |
| the percentage of Commerce graduate employees = $\frac{68 \times 10}{17}$ = 40% | | | | |
| The number of arts graduate employees in company M = $\frac{1050 \times 28}{100}$ = 294 | | | | |
| S169. Ans.(e) | | | | |
| Sol. The number of employees in company N in December 2012 = 700 | | | | |
| The number of employees in company N in December $2013 = \frac{700 \times 120}{100} = 840$ | | | | |
| $\frac{1}{100} = 0.10$ | | | | |

Number of Science graduate employees in company N in December $2013 = \frac{20 \times 840}{100} = 168$

S170. Ans.(d)

Sol. The percentage of Arts graduate employees in company O = 100 - 30 - 30 = 40%The percentage difference between Arts graduate employees in company O and P = 40 - 20 = 20% Now, let the number of employees in company O be x Then, $x \times 20\% = 180$ x = 900

Directions (171-175): Study the table carefully and answer the given questions.

Data related to number of candidates appeared and qualified in a competitive exam from 2 states during 5 years

| | State P | | State Q | |
|-------|-------------------------------------|--|-------------------------------------|--|
| Years | Number of appeared candidates | Percentage of appeared candidates who qualified | Number of appeared candidates | Percentage of appeared candidates who qualified |
| 2006 | 450 | 60% | - | 30% |
| 2007 | 600 | 43% | - | 45% |
| 2008 | - | 60% | 280 | 60% |
| 2009 | 480 | 70% | 550 | 50% |
| 2010 | 380 | - | 400 | - |

Q171. Out of the number of qualified candidates from State P in 2008, the respective ratio of male and female candidates is 11 : 7. If the number of female qualified candidates from State P in 2008 is 126, what is the number of appeared candidates (both male and female) from State P in 2008?

| (a) 630 | (b) 510 | (c) 570 |
|---------|---------|---------|
| (d) 690 | (e) 540 | |

Q172. The number of appeared candidates from State Q increased by 100% from 2006 to 2007. If the total number of qualified candidates from State Q in 2006 and 2007 together is 408, what is the number of appeared candidates from State Q in 2006?

| (a) 380 | (b) 360 | (c) 340 |
|---------|---------|---------|
| (d) 320 | (e) 300 | |

Q173. What is the difference between the number of qualified candidates from State P in 2006 and that in 2007?

| (a) 12 | (b) 22 | (c) 14 |
|--------|--------|--------|
| (d) 24 | (e) 16 | |

Q174. If the average number of qualified candidates from State Q in 2008, 2009 and 2010 is 210, what is the number of qualified candidates from State Q in 2010?

| (a) 191 | (b) 195 | (c) 183 |
|---------|---------|---------|
| (d) 187 | (e) 179 | |

Q175. If the respective between the number of qualified candidates from State P in 2009 and 2010 is 14:9, what is the number of qualified candidates from State P in 2010? (a) 252 (b) 207 (c) 216 (d) 234 (e) 198 S171. Ans.(e) **Sol.** No. of qualified candidates in $2008 = \frac{3x}{5}$ No. of female qualified from state P $=\frac{7}{18}\times\frac{3x}{5}$ $=\frac{\overline{7x}}{30}$ 7*x* $\frac{3}{30} = 126$ $x = 30 \times 18 = 540$ \therefore Required no. of appeared candidates = 540 S172. Ans.(c) **Sol.** Let no. of appeared candidates from state Q in 2006 = 100 Let no. of appeared candidates from state in 2007 = 200 $\therefore 30 + 90 \rightarrow 408$ $1 \rightarrow \frac{408}{120}$ $100 \rightarrow \frac{408}{120} \times 100 = 340$ S173. Ans.(a) **Sol.** Required difference $=\frac{60}{100} \times 450 - \frac{43}{100} \times 600$ = 270 - 258= 12 S174. Ans.(d) **Sol.** Let required no. of candidates = x $\frac{28 \times 6 + 55 \times 5 + x}{-----} = 210$ 3 **IBPS (PO+CLERK) 2017** 168 + 275 + x = 630x = 630 - 443COMBO x = 187with Video Solutions S175. Ans.(c) **190 TOTAL TESTS** Sol. 80 Full Length Mocks $\frac{48 \times 7}{x} = \frac{14}{9}$ 110 Practice Sets Bilingual $x = 24 \times 9$ E-Books, Study Notes etc. x = 216

Directions (176-180): In the following table, investments and profit of three persons is given for different years in a joint business.

| | Investments (in Rs.) | | Profit (in Rs.) | | | |
|------|----------------------|-------|-----------------|--------|-------|--------|
| Year | Α | В | С | Α | В | С |
| 2012 | 25500 | 31500 | 34500 | 127500 | _ | 172500 |
| 2013 | _ | 7500 | _ | - | 18750 | 138750 |
| 2014 | _ | 10050 | 12000 | _ | _ | 21000 |
| 2015 | - | _ | 13500 | 75000 | 66000 | 36000 |
| 2016 | 16500 | 45000 | _ | _ | _ | _ |

Note:

1. Apart from year 2015, they invested the amounts for same period.

2. Some values are missing. You have to calculate these value as per given data.

| Q176. If the total profit in 2014 | is 59587.50Rs. | , then find the ratio | of the investment of | B in 2013 to |
|-----------------------------------|----------------|-----------------------|----------------------|--------------|
| the investment of A in 2014. | | | | |

| (a) 5 : 8 | (b) 10 : 27 |
|-----------|-------------------|
| (d) 5 : 9 | (e) None of these |

Q177. In year 2015, A and B invested their amount for 6 months and 4 months respectively and B investedRs.24750 then find the number of months that C invested his amount for?

(a) 3 months(b) 6 months(c) 2 months(d) 4 months(e) 1 month

Q178. Total profit earned by B in year 2012 is how much less (in Rs.) than the profit earned by him in the year 2014?

| (a) Rs. 176575.5 | (b) Rs. 139912.5 | (c) Rs. 193825 |
|------------------|-------------------|----------------|
| (d) Rs. 185050 | (e) None of these | |

Q179. Investment made by A in 2016 is approximately what % more/less than the investment made by C in 2013?

| (a) 31% | (b) 70% | (c) 40% |
|---------|---------|---------|
| (d) 68% | (e) 79% | |

Q180. Total profit earned by all in 2016 is 578340Rs. and the ratio of investment made by A and B together and investment made by B and C together is 123 : 137. Then find the difference between the profit made by A and C in 2016 ?

| (a) 47628 | (b) 59428 | (c) 69478 |
|-----------|-------------------|-----------|
| (d) 45928 | (e) None of these | |

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(c) 5:7

S176. Ans.(a)

Sol. Let profit of B in 2014 = x $\therefore \frac{12000}{21000} = \frac{10.050}{x}$ x = 17587.5 Rs. Profit of A in 2014 = 59587.5 - 178587.5 - 21000 = 21000 Rs. $\therefore \text{ Required Ratio} = (7500) : \left(\frac{12 \times 21}{21}\right) \times 1000$ = 7500 : 12000 = 5 : 8

S177. Ans.(d) Sol. Let C invested for x months, then $\frac{24750 \times 4}{13500 \times x} = \frac{66000}{36000}$ $\Rightarrow x = 4$

S178. Ans.(b) Sol. Let profit earned by B in year 2012 = xProfit earned by B in year 2014 = y $\frac{31500}{x} = \frac{34500}{172500}$ x = 157500 Rs. And, $\frac{12000}{21000} = \frac{10050}{y}$ y = 17587.5 Rs. Required Difference = 157500 - 17587.5 = 139912.5

S179. Ans.(b) **Sol.** Required % = $\frac{55500-16500}{55500} \times 100 \approx 70\%$

S180. Ans.(a) Sol. Investment made by C in $2016 = \frac{(16500 + 45000)}{123} \times 137 - 45000$ = 23500 Rs. Ratio of their investment = 165 : 450 : 235 = 33 : 90 : 47 Difference= $\frac{(47 - 33)}{170} \times 578340 = 47628$



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170 TOTAL TESTS

70 Full Length Mocks

•100 Practice Sets

- Bilingual
- •E-Books, Study Notes etc.

Adda 247 Directions (181-185): The following bar graph shows the production (in lakh tonnes) of 3 companies A, B and C in different years. Study the graph and answer the following questions:

| | $\begin{array}{ c c c c c } \hline & & & & & \\ \hline & & & & & \\ \hline & & & & &$ | | | |
|---|---|---------|--|--|
| O181. The | e average production (in lakh tonnes) of company A over the given years is: | | | |
| ≈ (a) 32 | (b) 36 (c) 38 | | | |
| (d) 35 | (e) None of these | | | |
| (0) 00 | | | | |
| | e total production of all 3 companies together in 2008 is what percent more/less th rounded off to two decimal points) | an that | | |
| (a) 4.67% | (b) 5.17% (c) 5.67% | | | |
| (d) 4.17% | (e) 6.67% | | | |
| | | | | |
| Q183. The | e total production of all 3 companies together is 2 nd lowest in | | | |
| (a) 2005 | (b) 2006 (c) 2007 | | | |
| (d) 2008 | (e) 2009 | | | |
| Q184. What is the percentage decrease in total production of all 3 companies together in 2007 as compared to previous year? (a) 10.5% (b) 11.5% (c) 9.5% | | | | |
| (d) 12.5% | (e) None of these | | | |
| Q185. What is the ratio of total production of company B to that of company C in all years together? (a) 38:35 (b) 38:37 (c) 35:38 | | | | |
| (d) 37 : 38 | | | | |
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S181. Ans.(c) Sol. Required average = $\frac{190}{5}$ = 38 lakh tonnes

S182. Ans.(d) Sol. Required percentage = $\frac{(125-120)}{120} \times 100 = 4.17\%$

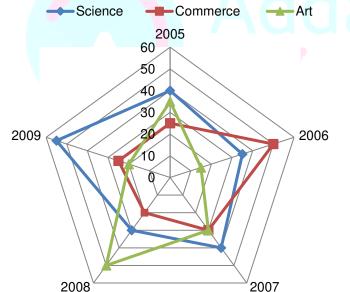
S183. Ans.(c) Sol. Total production is 2nd lowest in 2007 i.e. 105 lakh tonnes

S184. Ans.(d) **Sol.** Required percentage $=\frac{15}{120} \times 100 = 12.5\%$

S185. Ans.(d) **Sol.** Required ratio = $\frac{185}{190}$ = 37 : 38

Directions (186-190): Read the following graph and table carefully and answer the questions given below.

Percentage of admitted students in different discipline from 2005 to 2009



| Total number of admitted students in different years | | | |
|--|--------------------------|--|--|
| Year | Total number of students | | |
| 2005 | 12560 | | |
| 2006 | 14820 | | |
| 2007 | 13850 | | |
| 2008 | 16580 | | |
| 2009 | 11220 | | |

| Q186. What is the average number of students in Arts in 2008 and 2009 together? | | | | | |
|--|---------------------------|---|--|--|--|
| (a) 5182 | (b) 5475 | (c) 5318 | | | |
| (d) 5267 | (e) None of these | | | | |
| Q187. The number of students in Science in 2008 is approximately what percent of the number of students in commerce in 2006? | | | | | |
| (a) 67 (d) 58 | (b) 72 (a) 78 | (c) 63 | | | |
| (d) 58 | (e) 78 | | | | |
| Q188. What is the difference be students of Commerce in 2008? | etween the number of stu | dents in Science in 2006 and number of | | | |
| (a) 1625 | (b) 1546 | (c) 1871 | | | |
| (d) 1781 | (e) None of these | | | | |
| Q189. What is the difference be students in Science in 2006? (a) 3210 | between the number of st | tudents in Arts in 2008 and number of (c) 3325 | | | |
| | | (c) 5525 | | | |
| (d) 3014 | (e) None of these | | | | |
| Q190. What is the total number | of students in Commerce i | n all the years? | | | |
| (a) 28026 | (b) 21642 | (c) 22510 | | | |
| (d) 19441 | (e) None of these | | | | |
| | | | | | |
| S186. Ans.(d) | | | | | |
| Sol. Average $=\frac{10534}{2}=5267.$ | | | | | |
| S187. Ans.(a) | | | | | |
| Sol. Required percent = $\frac{4974}{7410} \times 10^{-10}$ | 00 = 67% (approx.) | IBPS | | | |
| S188. Ans.(c) | | IBPS RRB (PO+CLERK) | | | |
| Sol. Difference = 5187 – 3316 = 18 | 871. | IDP3 NND (PU+6LENKJ | | | |
| | | COMBO | | | |
| S189. Ans.(b) | | | | | |
| Sol. Difference = 8290 – 5187 = 32 | 103 | 170 TOTAL TESTS | | | |
| S190. Ans.(e) | | • 70 Full Length Mocks | | | |
| Sol. Total number = 20826 . | | •100 Practice Sets Bilingual | | | |
| | | •E-Books, Study Notes etc. | | | |

Directions (191-195): There are five students who appeared for RBI Grade B exam. Paper consists of 100 questions with 1 mark for each correct answer and 0.25 marks for each wrong answer. Students Questions attempted | Right Questions Marks obtained Wrong Questions 78 Aditya 70.5 _ 92 Puskar 76 _ _ 98 Anshuman 36 _ _ Alka 30 27.25 _ _ Avanish 56 53.50 _ _ Q191. Difference between total right number of questions of all students together and total wrong no. of questions of all students together is (a) 141 (b) 161 (c) 223 (d) 156 (e) None of these Q192. Marks obtained by Aditya and Puskar together is what % of the marks obtained by Anshuman, Avanish and Alka together? (rounded off to 2 decimal places) (a) 106.54% (b) 91.16% (c) 95.20% (d) 96.71% (e) 101.71% Q193. If the penalty of wrong answer is 0.33 then marks obtained by Aditya, Anshuman and Puskar together is (a) 192.21 (b) 224.19 (c) 190.86 (d) 219.14 (e) 194.22 Q194. If the passing % marks in the exam is 50 marks than at least how many questions has to be answered right by Puskar? (He attempted 92 questions) (a) 58 (b) 56 (c) 59 (d) 55 (e) 60 Q195. What is the percent of marks obtained by all of them together? (c) 52.53% (a) 59.03% (b) 53.15% (e) 55.25% (d) 45.05% S191. Ans.(c) **Sol.** Required difference = (72 + 76 + 62 + 30 + 54) - (6 + 16 + 36 + 11 + 2)= 294 - 71 = 223S192. Ans.(a) **Sol.** Required % = $\frac{70.5+72}{53+27.25+53.50} \times 100$ = 106.54%

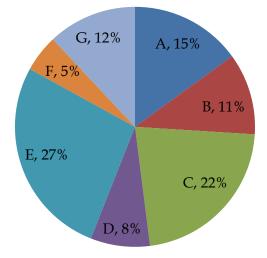
S193. Ans.(c) Sol. Required marks = (72 + 76 + 62) – 0.33 (6 + 16 + 36) = 190.86

S194. Ans.(c) Sol. By options Let right Questions = 59 \therefore marks = 92 $-\frac{1}{4}(92 - 59) = 50.75$

S195. Ans.(e) Sol. Required % = $\frac{70.5 + 72 + 53 + 27.25 + 53.50}{500} \times 100 = 55.25\%$

Directions (196-200): Seven companies A, B, C, D, E, F and G are engaged in production of two items I and II. Comparative data about production of these items by the companies is given in the following graph and table. Study them carefully and answer the questions given below.

Percentage of the total production produced by the seven companies

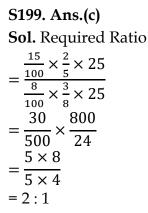


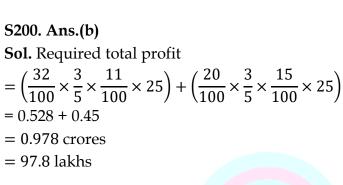
Cost of the total production (both items together) by seven companies = Rs 25 crores Ratio of production between items I and II and the per cent profit earned for the two items

| Company | Ratio of | | Per cent profit earned | |
|---------|------------|---------|------------------------|---------|
| | Production | | | |
| | Item I | Item II | Item I | Item II |
| А | 2 | 3 | 25 | 20 |
| В | 3 | 2 | 32 | 35 |
| С | 4 | 1 | 20 | 22 |
| D | 3 | 5 | 15 | 25 |
| Е | 5 | 3 | 28 | 30 |
| F | 1 | 4 | 35 | 25 |
| G | 1 | 2 | 30. | 24 |

| Q196. What is the total cost of th (a) 9.25 (d) 4.9 | ne production of item I by compar (b) 5.9 (e) None of these | nies A and C together in Rs crore? (c) 4.1625 | | | | |
|--|--|---|--|--|--|--|
| Q197. What is the amount of profit earned by company D on item II? | | | | | | |
| (a) Rs 3.125cr | (b) Rs 31.25 cr | (c) Rs 3.125 lakhs | | | | |
| (d) Rs 31.25 lakhs | (e) None of these | | | | | |
| Q198. Cost of production of item I by company F is what per cent of the cost of production of item | | | | | | |
| II by company D? | (b) 33333% | (c) 66 67% | | | | |
| (a) 16% (d) 20% | (b) 33.33% (e) None of these | (c) 66.67% | | | | |
| (u) 20 % | (e) None of these | | | | | |
| Q199. What is the ratio of the cost of production of item I by company A to the cost of production of item I by company D? | | | | | | |
| (a) 3 : 5 | (b) 1 : 2 | (c) 2 : 1 | | | | |
| (d) 2 : 3 | (e) None of these | | | | | |
| earned by company A on product (a) Rs 9.78 cr (d) Rs 5.28 cr S196. Ans.(b) | ction of item II? (b) Rs 97.8 lakhs (e) None of these | roduction of item I and the profit (c) Rs 52.8 lakhs | | | | |
| | company A = $\frac{15}{100} \times 25 = 3.75$ crore | es = 3.75 crores | | | | |
| Total cost of production by Company C = $\frac{22}{100} \times 25 = 5.5$ crores | | | | | | |
| Cost of production of item I by Company A = $\frac{2}{5} \times 3.75 = 1.5$ crores | | | | | | |
| Cost of production of item I by Company C = $\frac{4}{5} \times 5.5 = 4.4$ crores | | | | | | |
| \therefore Required total cost = 1.5 + 4.4 = | = 5.9 crores | | | | | |
| S197. Ans.(d) Sol. Required profit earned $=\frac{25}{100} \times \frac{5}{8} \times \frac{8}{100} \times 25 = 0.3125$ crores = 31.25 lakhs | | | | | | |
| S198. Ans.(d) Sol. Required % $= \frac{\frac{5}{100} \times \frac{1}{5} \times 25}{\frac{8}{100} \times \frac{5}{8} \times 25} \times 100$ $= \frac{0.25}{1.25} \times 100 = 20\%$ | | | | | | |
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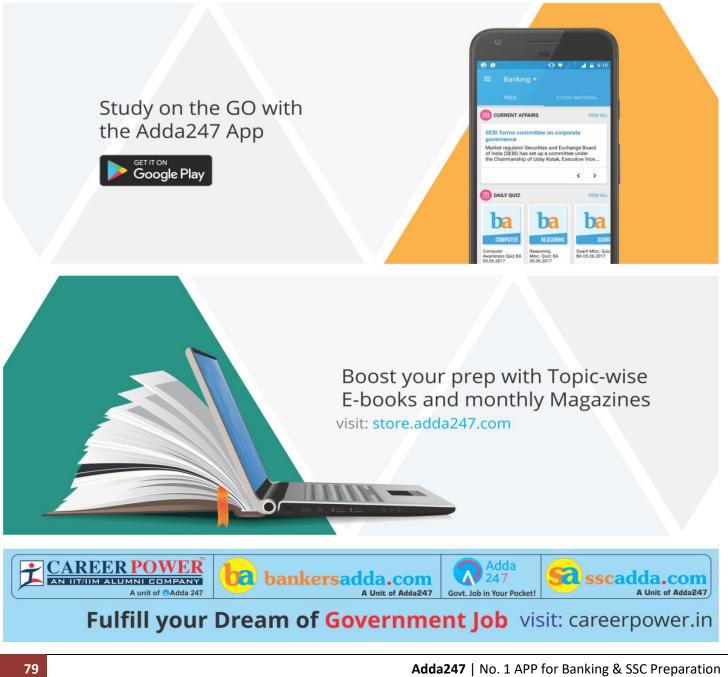
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