



DEPARTMENT OF EMPLOYMENT AND TRAINING

TNPSC GROUP II A MAINS - UNIT II

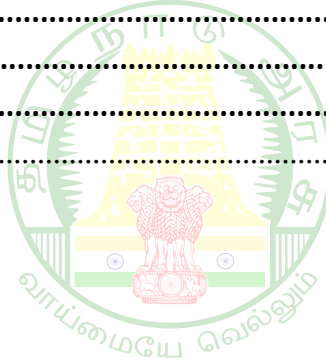
Course : TNPSC Group II A Mains Material

Subject : General Intelligence and Reasoning

Topic : Venn Diagram

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Venn Diagram

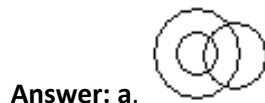
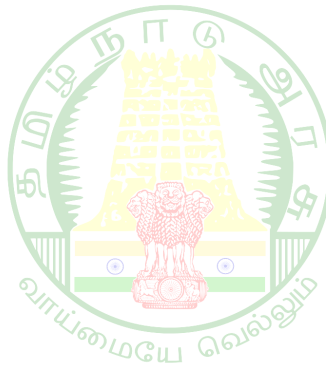
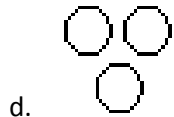
Venn diagrams:

A Venn diagram is a visual representation of the relationships between sets, often used to illustrate commonalities and differences. It typically consists of circles or other shapes that represent different sets. The areas where the circles overlap show the elements that are common to the sets, while the non-overlapping areas show elements that are unique to each set.

De Morgan's Laws describe the relationship between union, intersection, and complementation of sets.

Variety of Questions:

1. Which of the following diagrams indicates the best relation between Women, Mothers and Doctors?

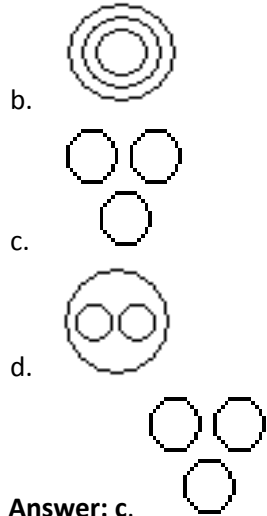


Explanation:

All mothers must be women. But all women not to be mother and Doctor. In doctors some are women and some are men.

2. Which of the following diagrams indicates the best relation between Engineer, Lawyer and Dancer ?

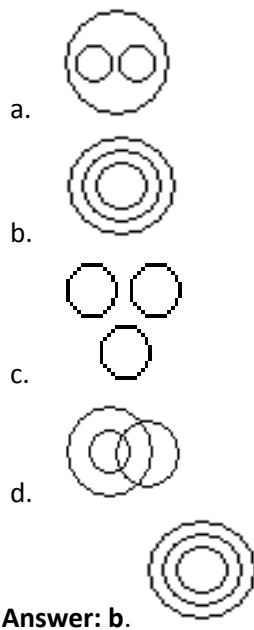




Explanation:

All are different professions

3. Which of the following diagrams indicates the best relation between India, Tamilnadu and World ?

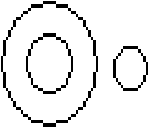


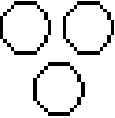



Explanation:

World is a large one. India is a country and it contains Tamilnadu as a state.



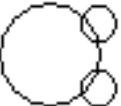




4. Which of the following diagrams indicates the best relation between Earth, Ocean and Moon ?

- a. 
- b. 
- c. 
- d. 
- Answer: a.** 

Explanation:

Ocean is part of Earth. Moon is not a part of earth. It is natural satellite for earth and lies out of earth.



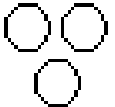
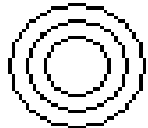
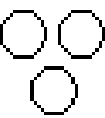
5. Which of the following diagrams indicates the best relation between Tiger, Fish and Snake ?

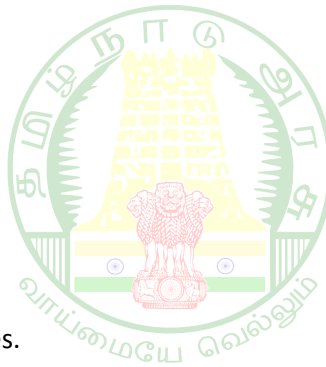
- a. 
- b. 
- c. 
- d. 
- Answer: d.** 

Explanation:

All are different living things and living in different places.

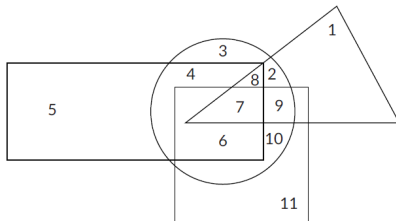
6. Which of the following Venn diagrams correctly describes the relationship amongst "Clothes, Flowers and Foot wears"?

- a. 
- b. 
- c. 
- d. 
- Answer: c.** 

**Explanation:**

All three things are used for different purposes.

7. In the figure, rectangle, square, circle, and triangle represent the regions of wheat, gram, maize, and rice cultivation respectively. On the basis of the figure, In which area are all 4 crops cultivated?

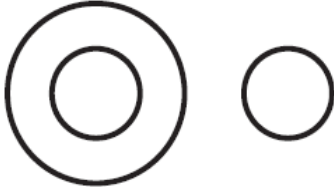


- a. 8
- b. 9
- c. 6
- d. 7

Answer: d. 7

Explanation: 7 only lies on all shapes

8. Which of the following options best represents the given Venn diagram?



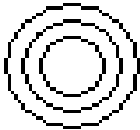
- a. Males, Females, Teacher
- b. Painter, Crow, Hen
- c. Tomato, Potato, Apple
- d. Vegetable, Grass, Bottle gourd

Answer: d. Vegetable, Grass, Bottle gourd

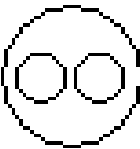
Explanation:

Bottle gourd is a kind of vegetable. Grass is different from others.

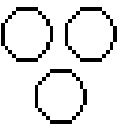
9. Select the diagram which correctly illustrates the relationship between wheat, maize, and grains.



a.



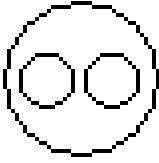
b.



c.



d.



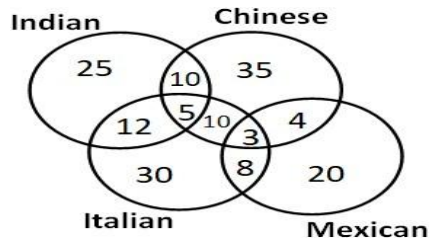
Answer: b.

Explanation:

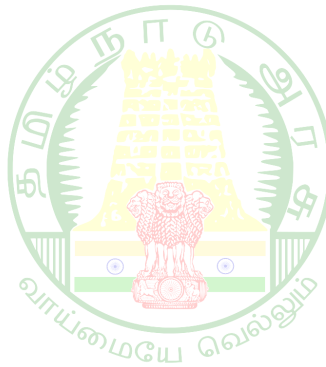


Wheat and maize are different items, but both are grains.

10. The following diagram shows the number of people who eat Indian, Chinese, Italian and Mexican dishes. If the total number of people is 100, then what is the number of people who eats Indian and Chinese but not Italian or Mexican?



- a. 10
- b. 12
- c. 5
- d. 3

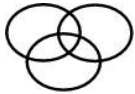


Answer: a. 10

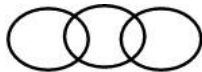
Explanation:

Here, the region of number of people who eat Indian and Chinese should be common in Indian and Chinese circles but does not come under Italian or Mexican circle.

11. Which of the following diagrams depicts the relation among Metal, Copper and Silver?



a.

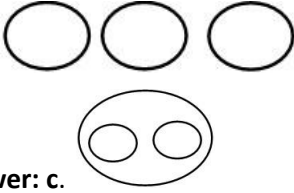


b.



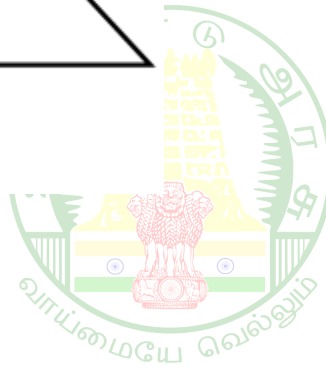
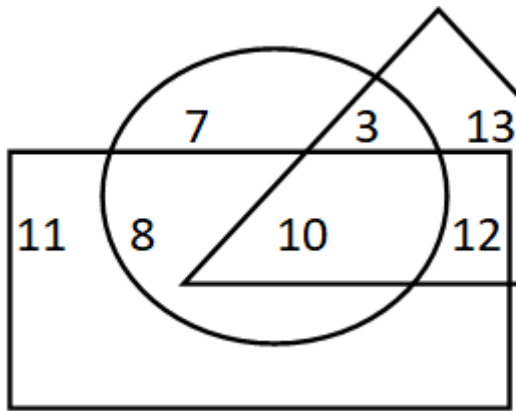
c.

d.

**Answer: c.****Explanation:**

Silver and Copper both are Metals. But other Metals are also there. Also Silver and Copper are different Metals.

12. If the triangle represents Men, the rectangle represents Businessman and circle represents Millionaire. Then which number represents Men that are both Businessman and Millionaire?



- a. 12
- b. 10
- c. 8
- d. 13

Answer: b. 10**Explanation:**

Here, the number of Men that are both Businessman and Millionaire should be common in triangle, rectangle and circle.

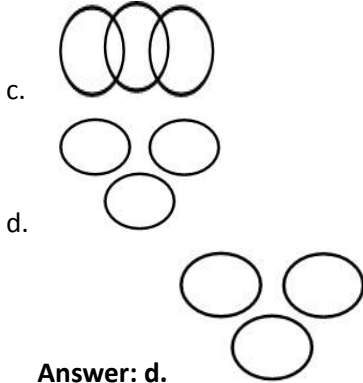
13. Which of the following figures shows relation between Pen, Rubber and Parrot?

a.



b.



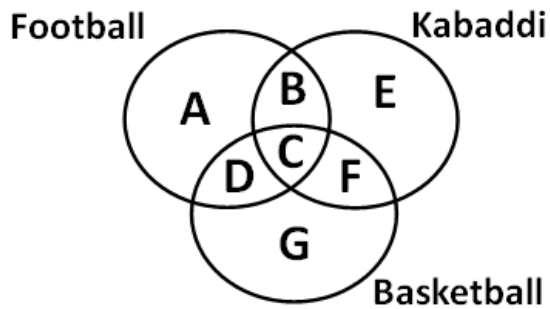


Answer: d.

Explanation:

All three are different.

14. Which of the regions in the following figure represents people who play Basketball and Kabaddi but not Football?



- a. $A + G - D$
- b. $E + G - F$
- c. $E + F - G$
- d. $A + D + G$

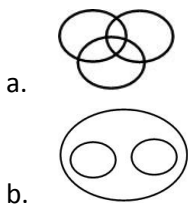
Answer: b. $E + G - F$

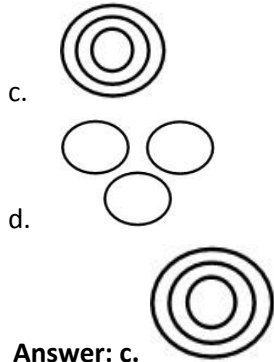
Explanation:

Here, region $E + G - F$ represents the people who play Basketball and Kabaddi but not Football.

Hence $E + G - F$ is the answer.

15. Which of the following figure correctly represents relation among Forest, Earth and Trees?

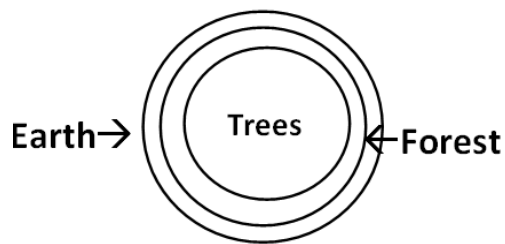




Explanation:

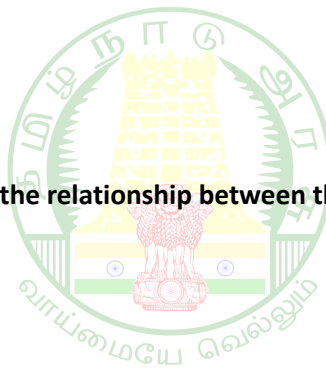
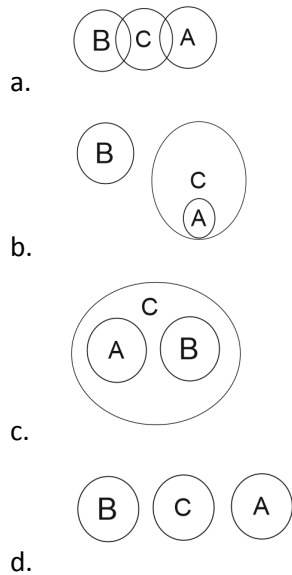
Here, Trees come under Forest and Forest comes under Earth.

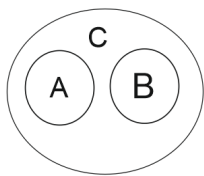
Hence, the diagram will be:-



16. Which Venn diagram correctly illustrates the relationship between the following?

A. Bus, B. Forest, C. Earth



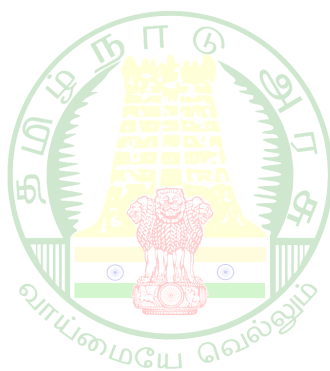
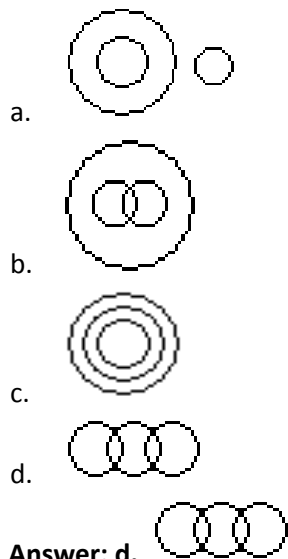


Answer: c.

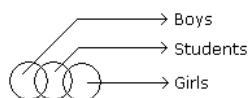
Explanation:

Bus and Forest lie on the earth.

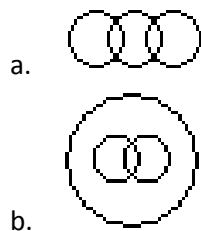
17. Which of the following diagrams indicates the best relation between Boys, Girls and Students ?

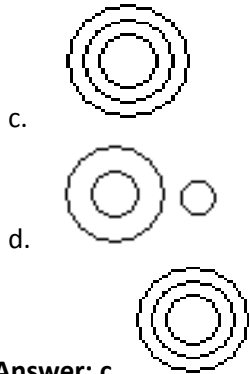


Explanation:



18. Which of the following diagrams indicates the best relation between Page, Chapter and Book ?



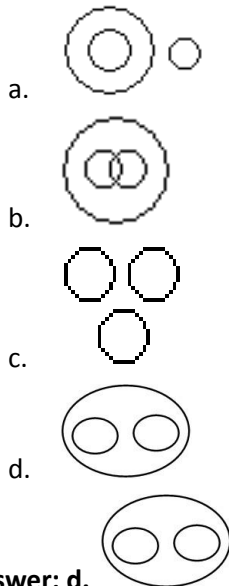


Answer: c.

Explanation:

Page is in Chapter and Chapter is in book.

19. Which of the following diagrams indicates the best relation between Elephants, Foxes and Animals ?

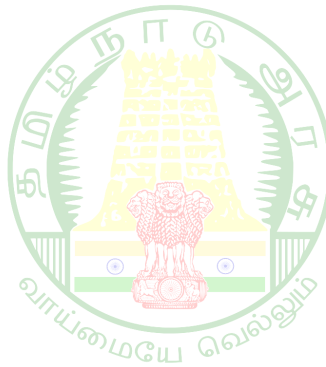
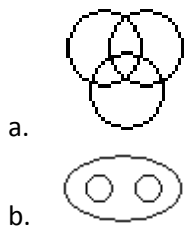


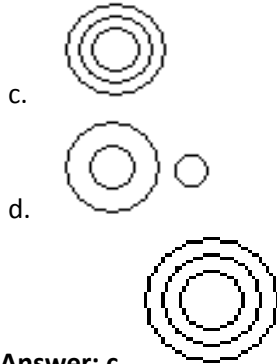
Answer: d.

Explanation:

Elephants and Foxes are no relationship to each other while both are animals.

20. Which of the following diagrams indicates the best relation between Sailor, Ship and Ocean ?





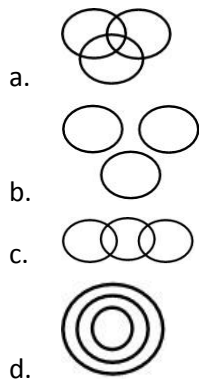
Answer: c.

Explanation:

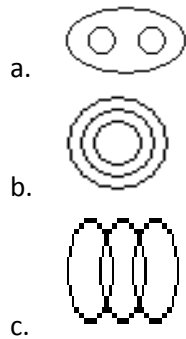
As ship is in the ocean in the same way sailor is in the ship.

Practice Questions:

1. Which of the following diagrams indicates the best relation between Beggars, Drivers and Trader ?

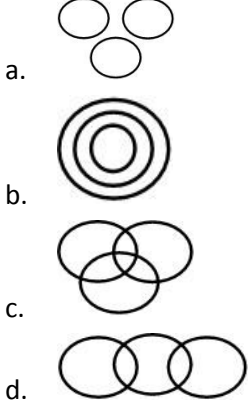


2. Which of the following diagrams indicates the best relation between Mammal, Cow and Bat ?

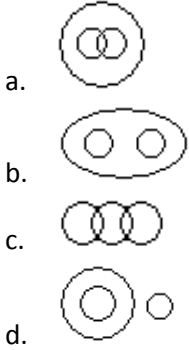




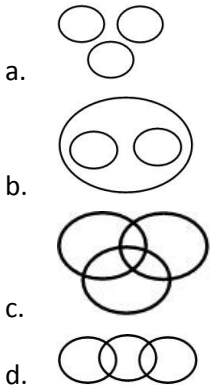
3. Select the diagram which best illustrates the relationship between girls, dancers, and singers.



4. Which of the following diagrams depicts the relation among Language, Sanskrit and Tamil?



5. Which of the following diagrams depicts the relation among Facebook, WhatsApp and Instagram?



Answers:

Q. No	1	2	3	4	5
Answers	b	a	c	b	b

