

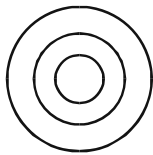


Practice Test-9

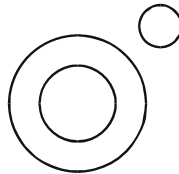
Number of questions: 30

Time Allowed: 30 mins.

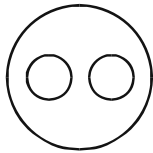
Directions for questions 1 to 6: Choose the Venn diagram which best illustrates the relationship between three given classes in each of the following questions:



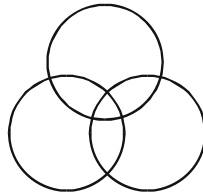
(a)



(b)



(c)



(d)

1. Stationery, Pen, Bat
2. Vehicle, Car, Scooter
3. Eatables, Vegetables, Brinjal
4. Graduate, Writer, Teacher
5. Uttar Pradesh, Rajasthan, India.
6. Doctor, Writer, Cook
7. If 'A + B' means 'A is the brother of B'. 'A - B' means 'A is sister of B'. 'A × B' means 'A is the mother of B' and 'A ÷ B' means 'A is the father of B'. Which of the following would mean X is the grandfather of Y?
(a) $X \times Z \times Y + W$ (b) $Y + X \div Z \div W$
(c) $X \div Z \div Y + W$ (d) $X + Y \div Z \times W$
8. Pointing to a photograph, Pawan said, "she is the mother of the wife of my brother's father." How is Pawan related to the lady in the photograph?
(a) Mother (b) Sister
(c) Grandson (d) Grandmother
9. Aditya left his house facing opposite to the sun in the morning at 6.45 a.m. He moved 50 m and took a left turn. Then he moved another 40 m and took a right turn. Then he moved 20 m and took a right turn, and after moving 25 m he stopped. Which direction is he facing now?
(a) North (b) South
(c) East (d) West

Directions for questions 10 and 11: Each question is followed by two statements, I and II. Answer the questions using the following instructions:

- (a) If the question can be answered by one of the statements alone, but cannot be answered by using the other statement alone.
 - (b) If the question can be answered by using either statement alone.
 - (c) If the question can be answered by using both the statements together, but cannot be answered by using either statement alone.
 - (d) If the question cannot be answered even by using both the statements together.
10. The average age of the three people in the car is 30. Is any one of them above 40?
I. The driver is 31 years old.
II. All the three are past their teens.
11. What is the value of the prime number?
I. The number is not divisible by any other prime number.
II. When 6 is added to the number, the resultant is divisible by 2.

Directions for questions 12 to 15: In the following questions, there are two statements followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read the conclusions and then decide which of them logically follows.

Mark answer:

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If both conclusions I and II follow
- (d) If neither conclusion I nor II follows

12. **Statements:**

Some books are magazines.

Some magazines are thesauruses.

Conclusions:

- I. Some books are thesauruses.
- II. Some thesauruses are not magazines.

13. **Statements:**

All stars are bright.

Some moons are bright.

Conclusions:

I. Some brights are moons.

II. Some brights are stars.

14. **Statements:**

No pant is a shirt.

No shirt is a kurta.

Conclusions:

I. Some shirts are not pants.

II. No kurta is shirt.

15. **Statements:**

Some pens are pencils.

No pencil is fan.

Conclusions:

I. Some pencils are not fans.

II. Some pencil is a fan.

Directions for questions 16 to 20: Arrange the following sentences in a logical order to make a coherent paragraph.

16. A. It's called the gentle giant of the sea.

B. The mindless slaughter on the shores of Gujarat in recent years, in particular, has gradually diminished its numbers.

C. Yet, the mammoth whale shark — a docile warm-water creature, has received anything but gentle treatment along India's picturesque western coastline.

D. Rhincodon typus, the world's largest fish, has obviously been in need of help.

(a) ACBD (b) BADC

(c) ABCD (d) CABD

17. A. The whale shark has now been added to Schedule 1 of the Wildlife Protection Act, making it the first fish on the list.

B. So starting May 28, 2001, hunting whale sharks is an offence that could invite imprisonment.

C. Not that whale shark fishing has stopped yet.

(a) ABC (b) BAC

(c) CAB (d) CBA

18. A. These individual trees are competing for the privilege of surviving in their descendants.

B. The species could certainly perpetuate itself with a much more modest expenditure of living material.

C. In flowering plants, the struggle for reproduction between different individuals often produces results which, if not directly harmful to the species, are at least incredibly wasteful.

D. We need only think of the fantastic profusion of bloom on flowering trees like dogwood or Catalpa, or the still more fantastic profusion of pollen in trees which rely on fertilization by the wind, like pine and fir.

(a) BDCA (b) ADCB

(c) ACBD (d) CDAB

19. A. Much of the anxiety and negative attitudes that individuals may be feeling about the future, is undoubtedly due to the many pressures and uncertainties of the changing work environment.

B. Rapid changes in business are making many workers vulnerable to pink slips, stagnation, and total disruption of their careers and financial lives.

C. Fear of job security has become rampant in both the government and the private sector.

D. Many employees have been left in a state of shock as they have watched many of their colleagues terminated and discarded.

(a) DCBA (b) CBAD

(c) CDBA (d) BCAD

20. A. It earned him a banishment from the sport for a year; much else has happened to Tyson since.

B. When Tyson and Holyfield met to fight for the world heavyweight boxing crown the last time, Tyson did not tell his rival "I will enchant thine ear", but bit it all the same.

C. It gives his promoters much to talk about and the spectators the thrill to watch in action someone who is both a hero and a villain rolled into one.

D. He spent several years in prison for assault and rape, and has acquired a bad boy image which, in boxing, is not a hindrance but a help.

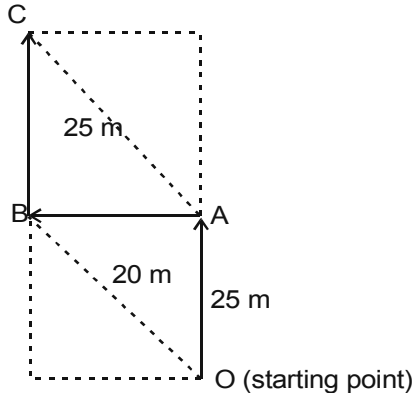
(a) BADC (b) BDCA

(c) BDAC (d) CBDA

Practice Test-9

3

21. Ramesh started moving to the right hand side while facing the sunset. He moved 25 m, took a left turn and moved another 20 m. After that he took a right turn and moved another 25 m. How far is he from the starting point?



- (a) 45.28 m (b) 48.36 m
(c) 52.34 m (d) 53.85 m

Directions for questions 22 and 23: In each of the following questions given below, which of the answer choices would replace the question marks '?'.

22. 4, 16, 36, 64, 100, ?
(a) 144 (b) 121
(c) 169 (d) 196
23. 1, 2, 3, 5, 8, 13, 21, ?
(a) 31 (b) 33
(c) 34 (d) 36
24. In a certain code language JAISALMER is coded as 11913459, what will be the code for ACCENTUATION in the same code language?

- (a) 133562312865 (b) 133552412956
(c) 133543212965 (d) 133552312965

25. In a certain code language ELEPHANT is coded as UOBIQFMF, what will be the code for COCKROACH in the same code language?

- (a) IDBPRLDQD (b) IDBPSLDPD
(c) IDPBSLEPD (d) IDPBSLFPD

Directions for questions 26 to 30: Answer the questions based on the following statement. A cube is coloured black on all the faces. It is cut into 64 smaller cubes of equal sizes.

26. How many cubes have two black opposite faces?
(a) 8 (b) 16
(c) 0 (d) 3
27. How many cubes are not coloured on any face?
(a) 4 (b) 8
(c) 16 (d) 0
28. How many cubes are coloured on three faces?
(a) 20 (b) 0
(c) 8 (d) 4
29. How many total number of cubes are there?
(a) 64 (b) 24
(c) 32 (d) 16
30. How many cubes are coloured on one face only?
(a) 24 (b) 18
(c) 32 (d) 16



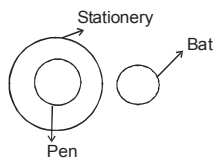
Answer Key

- | | | | | | | | | | |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1. (b) | 2. (c) | 3. (a) | 4. (d) | 5. (c) | 6. (d) | 7. (c) | 8. (c) | 9. (a) | 10. (c) |
| 11. (a) | 12. (d) | 13. (c) | 14. (c) | 15. (a) | 16. (a) | 17. (a) | 18. (d) | 19. (d) | 20. (a) |
| 21. (d) | 22. (a) | 23. (c) | 24. (d) | 25. (b) | 26. (c) | 27. (b) | 28. (c) | 29. (a) | 30. (a) |

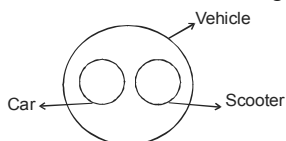


Explanations

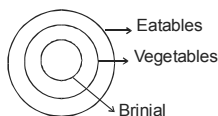
1. b Pen is a stationery but bat is a sports equipment. Thus the best Venn diagram is



2. c Car is a four-wheeler vehicle. Scooter is a two-wheeler vehicle. Thus, the best Venn diagram is

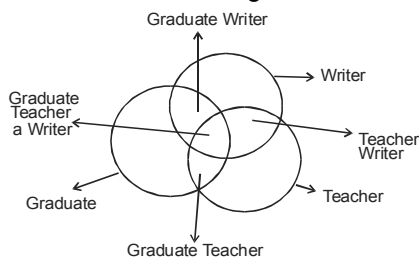


3. a Brinjal is a vegetable. All vegetables are eatables. Thus, the best Venn diagram is

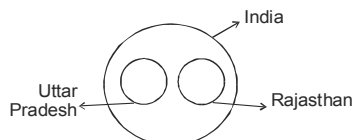


4. d Graduate can be a writer, writer can be a teacher, a teacher can be a graduate and vice-versa can also be true. Also, a graduate writer can be a teacher.

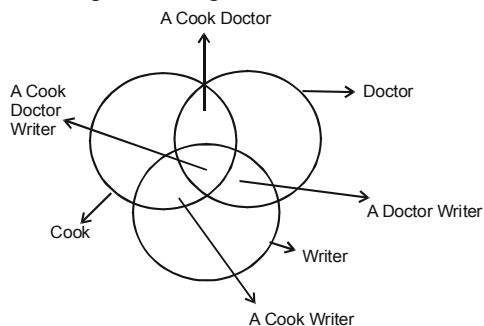
Thus, the best Venn diagram is



5. c Uttar Pradesh and Rajasthan are the states of India. Thus, the best diagram is

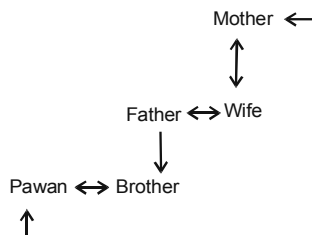


6. d Doctor, writer and cook is represented by the following Venn diagram.



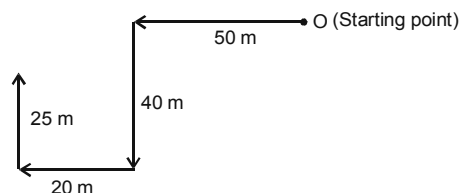
7. c Obviously, choice (c) holds good here. It says that X is the father of Z who is the father of Y and W, where Y and W are brothers.

8. c



Pawan is the grandson of the lady in the photograph.

9. a From the given direction in the question, we draw the following diagram which helps us in solving the question.



So obviously from the diagram above finally he is facing north.

10. c Combining statements I and II

Average age of 3 people = 30

Total age = 90

Age of other 2 people = $90 - 31 = 59$

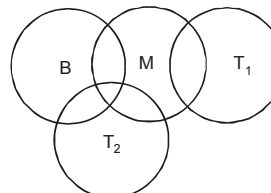
Since all of them are past their teens, there is none with age above 40.

11. a Statement I is redundant

Statement II gives the answer = 2

$2 + 6 = 8$; is divisible by 2

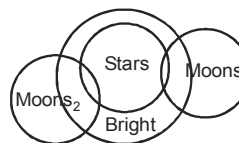
12. d



B - books M - magazines T - thesauruses

Neither conclusion I nor II follows.

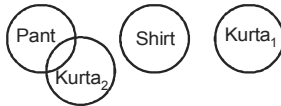
13. c As per the given venn diagram, both conclusions I and II follow.



Practice Test-9

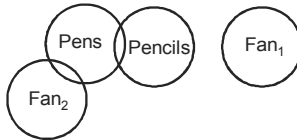
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14. c



Both I and II follow.

15. a



As per the given venn diagram, only conclusion I follows.

16. a The word 'gentle' links A to C. 'its' in B refers to 'whale shark' in C. Hence, 'ACBD' is the correct sequence.

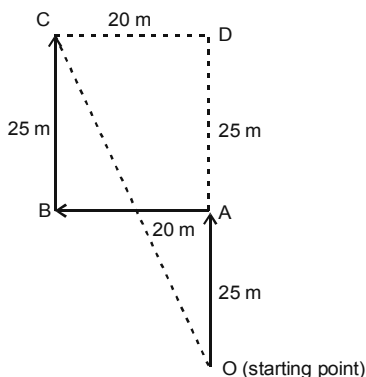
17. a 'So' in B refers to the action in A. C provides contrast to B. Hence, 'ABC' is the correct sequence.

18. d The phrase, 'these trees' in A refers to pine, fir, dogwood and catalpa of D. The examples of flowering plants of C are given in D. Hence, option (d) is the correct sequence.

19. d B introduces the main idea of the passage i.e. vulnerability of workers. 'CA' is a mandatory pair as the words 'fear' and 'anxiety' denote thought continuation. Statement D gives the conclusion that employees have been left in a state of shock.

20. a 'BA' is thought continuation, as biting Holyfield's ear earned Tyson banishment. D follows by stating that his 'bad boy image' has helped him. C states 'how' it has helped him. Hence, 'BADC' is the correct sequence.

21. d



From the figure above that shows the movement of Ramesh, we are to figure out OC.

By Pythagoras' theorem $OC^2 = OD^2 + DC^2$

Or

$$OC = \sqrt{OD^2 + DC^2} = OD = OA + AD$$

$$= OA + BC \text{ (as } AD = BC) = 25 + 25$$

$$OD = 50 \text{ m and } DC = AB = 20 \text{ m}$$

$$\text{So } OC = \sqrt{50^2 + 20^2}$$

$$= \sqrt{2500 + 400} = \sqrt{2900} = 53.85 \text{ m}$$

22. a The series is formed by the square of even numbers, starting with 2.

23. c A number is obtained as the sum of the previous two numbers.

24. d The numeral value of alphabets is coded. In case the alphabet has double digit value then they are added to result in a single digit. For example: JAISALMER

Alphabet		Numeral value	Code
J	→	10	1 + 0 = 1
A	→	1	1
I	→	9	9
S	→	19	1 + 9 = 10 = 1 + 0 = 1
A	→	1	1
L	→	12	1 + 2 = 3
M	→	13	1 + 3 = 4
E	→	5	5
R	→	18	1 + 8 = 9

Hence JAISALMER = 119113459, similarly ACCENATION can be coded to arrive at 133552312965.

25. b The letters of the word are reversed and the subsequent letter is written as its code, i.e.

ELEPHANT → TNAHPELE → UOBIQFMF

Similarly

COCKROACH → HCAORKCOC → IDBPSLDPD

Hence, choice (b) holds good.

26. c A small cube would have to be on two opposite faces of the larger cube at the same time; for this to be true.

27. b The dimensions of a larger cube = $4 \times 4 \times 4$ times the edge of the smaller cube. Since all the small cubes that are exposed are painted, only the ones that are inside will have no paint. Hence, the dimension of the unpainted centre will be $(4 - 2) \times (4 - 2) \times (4 - 2) = 8$.

28. c The cubes in each corner are coloured on three faces. Thus, 4 such cubes on the top surface and 4 on the bottom surface, thus, altogether 8.

29. a The question states, clearly, that there are 64 cubes altogether.

30. a On any one surface, there are four cubes that are coloured on one face only. Thus, altogether there are $6 \times 4 = 24$ such cubes.