Number of questions: 30   **Time Allowed: 30 mins.**

Directions for questions 1 to 5: Answer the following questions based on the information given below.

XYZ Tourism arranges tours to six different cities, viz. A, B, C, D, E and F in the span of 7 days, i.e. from Monday to Sunday, as per following conditions:

I. Tour to city A should not be organized on Friday.

II. Tour to city C should be organized immediately after tour to city F.

III. There should be a gap of two days between tour to city E and tour to city D.

IV. On one day, there won't be any tour.

V. Tour to city B should be organized on Wednesday and should not be followed by tour to city D.

VI. On Saturday, tour has to be arranged to any one of the cities.

VII. Tour to city D must be followed by a holiday.

1. Which day is a holiday?
    (a) Tuesday   (b) Saturday
    (c) Monday   (d) Can't be determined

2. How many tours are to be organized between C and E?
    (a) None   (b) One
    (c) Two   (d) Can't be determined

3. On which day will the tour to city F be organized?
    (a) Friday   (b) Saturday
    (c) Sunday   (d) Monday

4. Which tour will be the last tour in this series?
    (a) A   (b) B
    (c) C   (d) Can't be determined

5. Which of the following information is not required in finding the complete sequence of tours?
    (a) I only   (b) II only
    (c) V only   (d) None of these

Directions for questions 6 and 7: In the following questions, a statement is followed by two explanatory statements numbered I and II. These explanatory statements have been given to answer the question asked in the main statement.

Choose your answer as:

(a) If the data in statement I alone is sufficient to answer the question.

(b) If the data in statement II alone is sufficient to answer the question.

(c) If the data in both the statements together is not sufficient to answer the question

(d) If the data in both the statements is needed to answer the question.

6. A test was conducted in a class of 50 students. The test was of 100 marks. Was 70 the average marks on a class test?
    I. In the test, half of the class had marks below 70 and half of the class had marks above 70.
    II. The lowest marks in the test was 45 and the highest marks was 95.

7. Four books are kept on a rack. Yellow coloured book is to the right of blue coloured book. Black coloured book is to the right of red coloured book. Which colour book is to the extreme left?
    I. Red coloured book is to the left of black coloured book.
    II. Black coloured book is to the left of blue coloured book.

Directions for questions 8 and 9: From the given options find the missing numbers to replace and complete the series.

8. 0.56, 1.12, 1.40, 1.54, ?
    (a) 3.99   (b) 1.61
    (c) 2.24   (d) 3.33

9. 5 8 13 9 13 17 13 18 21 17 23 ?
    (a) 25   (b) 27
    (c) 23   (d) 19

Directions for questions 10 and 11: Answer the questions independently.

10. If A + B means 'A is brother of B', A ÷ B means 'A is father of B' and A × B means 'A is sister of B', which of the following means 'M is uncle of P'?

    (a) M + N × P   (b) N × P ÷ M

    (c) M ÷ K × P   (d) M + N ÷ P

11. Pointing to an old man, Ramu said, "His son is my son's uncle." How is the old man related to Ramu?
    (a) Uncle   (b) Brother
    (c) Father   (d) Grandfather

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:**

   All girls are boys.

   Some boys are idiots.

   Conclusions:

   I. All idiots are girls.

   II. All boys are girls.

13. **Statements:**

   All Chinese are dwarfs.

   Some dwarfs are Indians.

   Conclusions:

   I. Some dwarfs are Chinese.

   II. Some dwarfs are not Indians.

14. **Statements:**

   All scientists are eccentric.

   Abhinav is eccentric.

   Conclusions:

   I. Abhinav is a scientist.

   II. Some scientists are eccentric.

15. **Statements:**

   All cars are costly.

   No car is black.

   Conclusions:

   I. Some cars are costly.

   II. Some cars are not black.

Directions for question 16 to 19: Answer the questions independently.

16. In a certain code language PROPER is coded as UWTUJW, what will be the code for EXTRACT in the same code language?

   (a) JYCWFHY   (b) JCYWHFY

   (c) JCYFWHY   (d) JCYWFHY

17. In a certain code language FATHER is coded as HCVJGT, what will be the code for HUMANITY in the same language?

   (a) JWODPKVA   (b) JWOCPKAV

   (c) JWOPCKVA   (d) JWOCPKVA

18. Sunil travelled 25 m straight towards the north. Then he took a left-turn and moved another 20 m. After that he took a left-turn and moved 50 m straight. Then he turned to his right and moved another 20 m. How far is he from the starting point?

   (a) 50 m   (b) 47.16 m

   (c) 65 m   (d) 68.42 m

19. A starts from his office and walks 3 km towards north. He then turns right and walks 2 km and then turns right and walks 5 km. He then turns right and walks 2 km, and then again turns right and walks 2 km. In which direction is he now from the starting point?

   (a) South

   (b) North-east

   (c) South-east

   (d) He is at the starting point

Directions for questions 20 to 24: Arrange the following sentences in a logical order and answer the questions that follow.

A. Well, they didn't really confiscate it.

B. The Security people had confiscated my cigar cutter.

C. And I was still annoyed.

D. I was fresh off a flight from Raleigh-Durham.

E. I heard the story at just the right time.

20. Which of the following should be the FIRST sentence?

   (a) B   (b) A

   (c) C   (d) E

21. Which of the following should be the SECOND sentence?

   (a) A   (b) E

   (c) B   (d) D

22. Which of the following should be the THIRD sentence?

   (a) E   (b) B

   (c) C   (d) A

23. Which of the following should be the FOURTH sentence?

   (a) A   (b) B

   (c) C   (d) D

24. Which of the following should be the FIFTH sentence?

(a) A   (b) B

(c) C   (d) D

Directions for questions 25 to 29: From the options given below, choose the one that best rearranges the letters given below to construct a meaningful word:

25. E O I S S R H P N C

    1 2 3 4 5 6 7 8 9 10

(a) 10, 1, 9, 5, 2, 6, 4, 7, 3, 8

(b) 6, 9, 5, 7, 10, 2, 1, 4, 8, 3

(c) 4, 1, 10, 6, 9, 5, 8, 3, 7, 2

(d) 3, 6, 2, 4, 7, 5, 1, 10, 8, 9

26. E A E R L B I R V O C

    1 2 3 4 5 6 7 8 9 10 11

(a) 10, 4, 9, 11, 1, 5, 8, 3, 7, 2, 6

(b) 1, 9, 11, 5, 8, 2, 10, 7, 3, 6, 4

(c) 7, 10, 6, 8, 5, 2, 11, 9, 4, 1, 3

(d) 7, 4, 8, 3, 9, 10, 11, 2, 6, 5, 1

27. O U S D R H

    1 2 3 4 5 6

(a) 314652   (b) 154632

(c) 365124   (d) 352641

28. T T I I W N

    1 2 3 4 5 6

(a) 314652   (b) 154632

(c) 643125   (d) 631542

29. I V O J L A

    1 2 3 4 5 6

(a) 432156   (b) 432165

(c) 231564   (d) 432561

30. There are five persons: Ram, Keshav, Lalit, Pawan and Prabhat. Lalit is older than Pawan but not younger than Keshav. Ram is older than Keshav but younger than Pawan. Who is the eldest?

(a) Lalit

(b) Prabhat

(c) Ram

(d) Can't be determined

 Answer Key

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

Explanations

For questions 1 to 5 :

The tours can be arranged in the following manner:

Monday	– D
Tuesday	– off
Wednesday	– B
Thursday	– E
Friday	– F
Saturday	– C
Sunday	– A

6. c Statement I cannot answer the problem.

∴ Suppose half of the class get 50 and half of the class get 72, then average of the class

$= \dfrac{50+72}{2} = \dfrac{122}{2} = 61$ which is not 70.

Statement II gives us the extreme values of the data. As extreme values doesn't help in determining the average value, so it doesn't give us the answer of the problem.

7. b With the given information, the only confusion is whether blue-coloured book or the red coloured book is at the extreme left. Statement I is just the reverse of the statement that black coloured book is to the right of red coloured book. Statement II says that black coloured book is to the left of blue coloured book. So blue book can't be the left most. So red book at the left most position.

8. b The series is moving as the difference between the consecutive terms is halved of the previous difference and is added to the next term of the series to continue the given series.

1.12 – 0.56 = 0.56

1.40 – 1.12 = 0.28

1.54 – 1.40 = 0.14
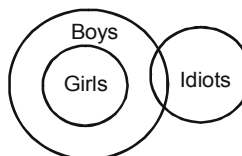
1.54 + 0.07 = 1.61

9. a There are three parallel series moving in the question such as (5, 9, 13, 17....), (8, 13, 18 , 23.....) and (13, 17, 21 , 25...).

10. d Among the given options only option (d) conveys that M is the uncle of P. As M is the brother of N and N is the father of P. Hence, we can conclude that M is the uncle of P.

11. c Ramu's son's uncle - Ramu's brother. So, the old man's son is Ramu's brother, i.e. the old man is Ramu's father.
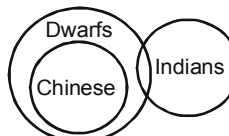
For questions 12 to 15: Draw different types of Venn diagrams based on the statements and then draw common conclusions.
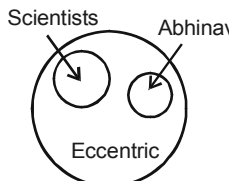
12. d

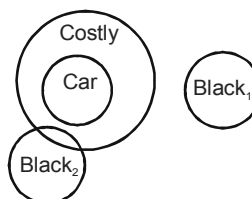From the above venn diagram we can conclude that neither I nor II follows.

13. a

From the above venn diagram we can see that only I definitely follows. II does not follow because 'Some dwarfs are Indian' does not mean that 'Some dwarfs are not Indian'. This is an incorrect inference.

14. b

From the above venn diagram we can deduce that only II follows. Abhinav may or may not be a scientist.

15. c

From the above venn diagram we can conclude that both I and II follow. 'Some' is included in 'All' - therefore 'some cars are costly' and 'some cars are not black'.
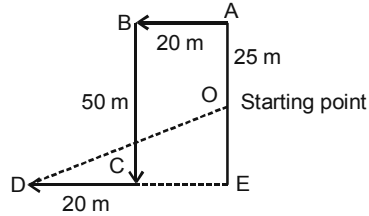
16. d The coding follows as

P(16) + 5 = U(21)	E(5) + 5 = J(10)
R(18) + 5 = W(23)	X(24) + 5 = C(3)
O(15) + 5 = T(20)	T(20) + 5 = Y(25)
P(16) + 5 = U(21)	R(18) + 5 = W(23)
E(5) + 5 = J(10)	A(1) + 5 = F(6)
R(18) + 5 = W(23)	C(3) + 5 = H(8)
	T(20) + 5 = Y(25)

17. d

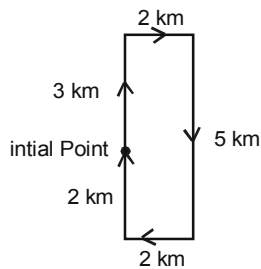|			
F(6) + 2	H(8)	H(8) + 2	J (10)
A(1) + 2	C(3)	U(21) + 2	W(23)
T(20) + 2	V(22)	M(13) + 2	O(15)
H(8) + 2	J(10)	A(1) + 2	C(3)
E(5) + 2	G(7)	N(14) + 2	P(16)
R(18) + 2	T(20)	I(9) + 2	K(11)
		T(20) + 2	V(22)
		Y(25) + 2	A(1)

18. b

We have to find out

$$OD = \sqrt{OE^2 + ED^2} = \sqrt{(CB - OA)^2 + (EC + CD)^2}$$

$$= \sqrt{(25)^2 + (40)^2} = \sqrt{625 + 1600} = \sqrt{2225}$$

Therefore, OD = 47.16 m.

19. d The movement is:

For questions 20 to 24:

E is the opening sentence as it does not fit in anywhere else in the passage. The mandatory pair 'DC' follows E as it states where the story began (at the airport) and what were the author's feelings/ state of mind at that moment (annoyed). B follows as it states the reason for his annoyance and A follows it as the pronoun 'they' mentioned in A refers to 'the security people' mentioned in B. Hence, the correct sequence is 'EDCBA'.

For questions 25 to 29:

The sentence reads 'But the smiles suddenly turned into grins on the faces of cynics as the drug dragon surfaced over her head'.

25. a The word formed is CENSORSHIP. To solve this question unravel the first four letters only. It helps you to narrow down your choice to the right answer.

26. d To solve this question, first check 'a'. 10,4,9 sequence gives you 'ORV' this does not form any word. 1,9,11 of choice b gives you 'EVC', eject. Choice 'c' is also rejected for the same reason.

27. c SHROUD

28. d NITWIT

29. b JOVIAL

30. d Cannot be determined because there is no information about Prabhat.