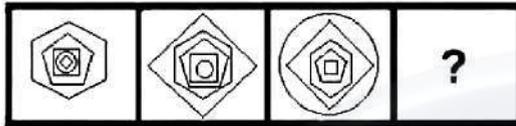


## 08

## Practice Set

1. Select the figure from among the given options that can replace the question mark(?) in the following series.



- (a) (b) (b) (b)

2. Select the option that is related to the third number in the same way as the second number is related to the first number.

$$52 : 91 :: 72 ?$$

- (a) 98 (b) 126  
(b) 109 (d) 138
3. If the signs '+' and '÷' are interchanged, then which of the following equations can be correctly balanced?
- (a)  $12 + 4 - 8 \div 3 = 11$   
(b)  $24 - 12 \div 6 + 3 = 20$   
(b)  $16 + 4 \times 8 \div 3 = 45$   
(d)  $22 + 11 \times 8 \div 3 = 19$

4. In a certain code language, 'your attention please' is written as 'puw cuw zuw', 'kind attention' is written as 'muw zuw', and 'please pay attention' is written as 'puw zuw ruw'. How will 'pay' be written in that language?

- (a) puw (b) zuw  
(b) ruw (d) cuw

5. Select the option that is related to the third in the same way as the second term is related to the first term.

$$\text{FRONTIER} : \text{GSNOUHDS} :: \text{CLOSING} : ?$$

- (a) DMNTHOH (b) BMPTHOH  
(b) DMNRHLH (d) DKNTJOH

6. Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow (s) from the statements.

**Statements:** All fruits are leaves.

Some mangoes are rotten.

All rotten are fruits.

**Conclusions:** I. Some leaves are rotten.

II. Some mangoes are fruits.

III. All leaves are either rotten or mangoes.

- (a) All the conclusions follow  
(b) Only conclusions II and III follow  
(b) Only conclusion II follows  
(d) Only conclusions I and II follow
7. Select the combination of letters that when sequentially placed in the blanks of the blank's series will complete the series.

C \_ B N \_ \_ V \_ \_ H C \_ B \_ H

- (a) VCBHNVN (b) HVCNBVN  
(b) VHCBNVN (d) VHDBNCHV

8. Select the number from among the given options that can replace the question mark (?) in the following series.

16, 35, ?, 217, 653, 1309

- (a) 72 (b) 128  
(b) 77 (d) 107

9. Select the Venn diagram that best illustrates the relationship between the following classes.

Planets, Mars, Venus

- (a) (b) (b) (d) (d)



10. Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the letter-cluster that is different.

- (a) TVYCH
- (b) NPSWB
- (c) UWZBI
- (d) ACFJO

11. Select the correct mirror image of the given combination when mirror is placed at 'PQ' as shown.



- (a) d b Я 7 Y x c
- (b) d g Я J Y x c
- (c) q g Я J A x c
- (d) d g Я 7 Y x c

12. 'A# B' means 'A is the father of B'

'A% B' means 'A is the mother of B'.

'A @ B' means 'A is the sister of B'.

'A & B' means 'A is the son of B'.

If 'G # M# T% S @ H & R & W @ U', then which of the following statements is NOT correct?

- (a) G is the paternal grandfather of T.
- (b) W is the maternal grandmother of H.
- (c) R is the husband of T.
- (d) M is the maternal grandfather of S.

13. Select the correct option that indicates the arrangement of the given course of actions in a logical and meaningful order.

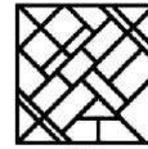
- |                       |                        |
|-----------------------|------------------------|
| 1. Open email account | 2. Compose email       |
| 3. Start computer     | 4. Enter email address |
| 5. Write the content  | 6. Send the mail       |
- (a) 3,1,2,4,5,6
  - (b) 2,5,1,3,4,6
  - (c) 3,2,6,1,5,4
  - (d) 3,1,2,6,5,4

14. Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.

HDMS, OVVI, VNEY, CFNO, ?

- (a) JYWF
- (b) JXWE
- (c) KXWE
- (d) JXXE

15. Select the option that is NOT embedded in the given figure (X) (rotation is NOT allowed).



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

16. A is 25 years younger than B. The age of B would be double the age of C after 15 years. The current age of B is three times the current age of C. What is the current age of A?

- (a) 25 years
- (b) 20 years
- (c) 15 years
- (d) 30 years

17. Eight north-facing restaurants named P, Q, R, S, T, U, V and W are located in a straight line. S is second to the left of T. W is third to the left of P. T is between P and V. S is third to the left of V. W is to the immediate right of U. R is third to the right of P. Who is sitting fourth to the right of S?

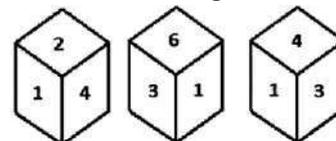
- (a) U
- (b) W
- (c) R
- (d) V

18. Study the given pattern carefully and select the number from among the given options that can replace the question mark (?) in it.

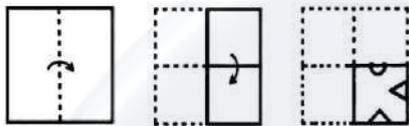
11 15 9  
14 16 ?  
75 31 88

- (a) 13
- (b) 18
- (c) 22
- (d) 25

19. Three different positions of the same dice are shown, the six faces of which are numbered from 1 to 6. Select the number that will be on the face opposite to the face having the number '5'.



- (a) 3 (b) 1  
(b) 6 (d) 2
20. Srinija walked 9 km towards the west from her home, then turned towards the south and walked 11 km. Then she walked 13 km towards the east, and finally walked 4 km towards the west. How far is Srinija from her initial position?  
(a) 11 km (b) 15 km  
(b) 13 km (d) 10 km
21. The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?



- (a) (b)   
(b) (d)

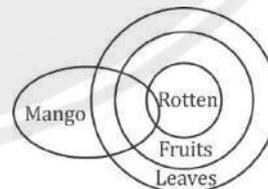
22. Select the number from among the given options that can replace the question mark (?) in the following series.  
62, 74, 80, 86, 95, ?, 158  
(a) 100 (b) 108  
(b) 122 (d) 113
23. In a code language, SOUP is written as TNVO. How will BOWL be written in that language?  
(a) CPVM (b) ANVK  
(b) APVM (d) CNXX
24. If A denotes 'addition', B denotes 'multiplication', C denotes 'subtraction', and D denotes 'division', then what will be the value of the following expression?  
46C (6 A 7) B 5 A 24 D 6 B (27 D (9 D 3))  
(a) 21 (b) 17  
(b) 39 (d) 65
25. In a code language, if PEN is written as 17717, then how will CAP be written in the same language?  
(a) 4319 (b) 2320  
(b) 4219 (d) 2319

## Solutions

1. (d):
2. (b): The pattern is  
52 : 91 → (13 × 4) : (13 × 7)  
Similarly 72 : 126 → (18 × 4) : 18 × 7  
126 is the correct answer.
3. (d): Option (d)  
22 + 11 × 8 ÷ 3 = 19  
Interchange + and ÷  
⇒ 22 ÷ 11 × 8 + 3 = 19 ⇒ 2 × 8 + 3 = 19  
19 = 19  
Option (d) is the correct answer.
4. (c):
- your attention please, kind attention  
puw cuw zuw, muz zuw  
please pay attention  
puw zuw rum
- Hence pay written as rum

5. (a): The pattern is,  
FRONTIER → GSNOUHDS  
Consonant → + 1  
vowel → - 1  
Similarly, CLOSING → DMNTHOH

6. (d):



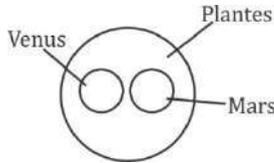
Only conclusion I and II follow.

7. (c): The series is →  
C V B N H / C V B N H / C V B N H

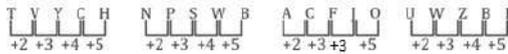
8. (d):
- 16 35 107 217 653 1309  
×2+3 ×3+2 ×2+3 ×3+2 ×2+3  
107 is the correct one answer.



9. (b):



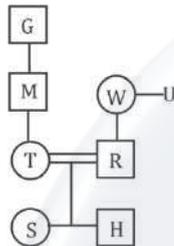
10. (c): The pattern is



Option (c) is the answer.

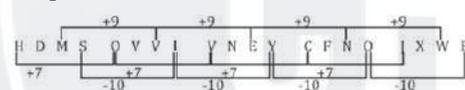
11. (b):

12. (b):



13. (a): Start computer - Open email account - Compose email - Enter email address - Write the content - send the mail  
3, 1, 2, 4, 5, 6 is the meaningful order

14. (b): The pattern is



Hence JXWE is the correct answer.

15. (b):

16. (b): According to given information

$$A + 25 = B \text{ ..... (1)}$$

and

$$B + 15 = 2(C + 15)$$

$$\Rightarrow B = 2C + 15 \text{ ..... (2)}$$

$$\text{Now, } B = 3C$$

$$\text{From eq}^n \text{ (2)}$$

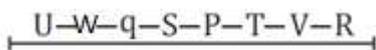
$$3C = 2C + 15 \Rightarrow C = 15 \text{ years}$$

$$\text{Now, } B = 3C = 3 \times 15 = 45 \text{ years}$$

$$\text{Current age of A} = A + 25 = B$$

$$= A = 45 - 25 \Rightarrow A = 20 \text{ years}$$

17. (c): The correct sitting arrangement is



R is the correct answer.

18. (a): Row I  $\rightarrow (11, 14, 75) = (14)^2 - (11)^2 = 196 - 121 = 75$

Row II  $\rightarrow (15, 16, 31) = (16)^2 - (15)^2 = 256 - 225 = 31$

Similarly, Row III  $\rightarrow (9, 13, 88) = (13^2) - (9)^2 = 169 - 81 = 88$

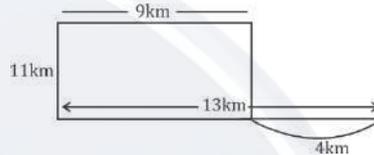
13 is correct answer.

19. (b): Opposite face's  $\rightarrow 2 \quad 4 \quad 5$



Hence 1 is the correct answer.

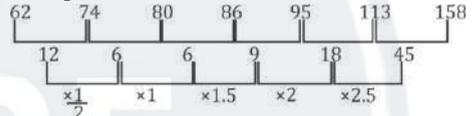
20. (a):



Srinija is 11 km far from her initial position

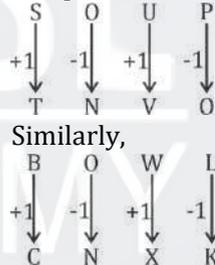
21. (a):

22. (d): The pattern is



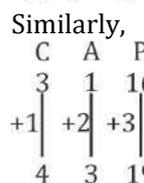
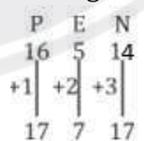
113 is the correct answer.

23. (d): The pattern is



24. (b):  $46 - (6 + 7) \times 5 + 24 \div 6 \times (27 \div (9 \div 3)) = 46 - 65 + 4 \times 9 = 82 - 65 = 17$

25. (a): The logic is



'4319' is the correct answer.