01   **Practice Set**

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

223 : 350 :: 519 : ?
(a) 736   (b) 687
(c) 654   (d) 645

2. Mohit and Sudesh bought pens and notebooks from the same shop. Mohit bought 3 pens and 6 notebooks by paying an amount of ₹180. Sudesh bought 5 pens and 2 notebooks by paying an amount of ₹116. How much did Mohit spend on buying notebooks?
(a) ₹84   (b) ₹122
(c) ₹115   (d) ₹138

3. Gaurav exits from the backdoor of his north – facing house and walks 25 m straight, then he takes a left turn and walks 36 m then he turns left and walks 47 m . He turns left again and walk 36 m . How far and in which direction is he from his house now?
(a) 11 m, South   (b) 11 m, North
(c) 22 m, North   (d) 22 m, South

4. Saloni is the daughter of the only son of Kartik. Nirupama is the mother of Deepak. Yamini's only son, Ankit, is married to Nirupama. Kartik is the paternal grandfather of Deepak. How is Kartik related to Ankit?
(a) Paternal uncle   (b) Son
(c) Father   (d) Brother

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

BACTERIA : EXFWBUFX :: WOUNDS : ?
(a) ZLRQGV   (b) ZLSQFW
(c) YLRQFV   (d) ZRXQGV

6. Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.

_ Z _ C _ LZ _ C _ L _ X _ VL _ _ _ V
(a) L, X, V, X, V, Z, C, Z, X, C
(b) X, Z, L, X, V, Z, C, C, C, L
(c) L, X, C, X, V, C, Z, C, Z, C
(d) L, X, V, V, X, C, C, X, Z, Z

7. Select the option in which the given figure is embedded (rotation is NOT allowed).
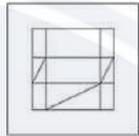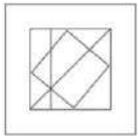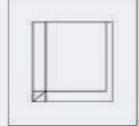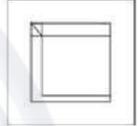
8. Select the correct combination of mathematical signs that can sequentially replace * signs and balance the given equation.

60 * 48 * 36 * 6 * 15 * 53
(a) ×, ÷, + , –, =   (b) ÷, +, ×, –, =
(c) +, ÷, ×, –, =   (d) +, ÷, –, ×, =

9. In a certain language, **CHHAPAK** is coded as **DJKEUGR**. How will **MALANGA** be coded in that language?
(a) NCOESMH   (b) NCOCMSC
(c) NCEOSMC   (d) NCOCSMC

10. Select the figure from among the given options that can replace the question mark (?) in the following series.
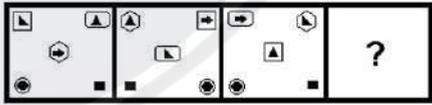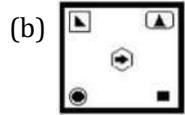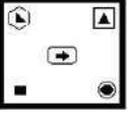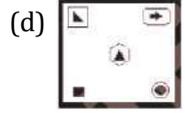
11. Amit, Gaurav, Hatim, Varun, Yukti and Zaid are sitting in a straight line, all facing the north. Gaurav is fourth to the left of Amit. Yukti is sitting

at one end. Hatim is fourth to the left of Yukti. Zaid is third to the right of Gaurav. Who is sitting at the second place to the left of Zaid?
(a) Varun
(b) Amit
(c) Hatim
(d) Yukti

12. Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary
1. Petitionary
2. Petitioning
3. Petition
4. Petitioners
5. Petitioned
(a) 3, 1, 4, 5, 2
(b) 3, 1, 5, 4, 2
(c) 1, 2, 3, 4, 5
(d) 4, 1, 2, 3, 5

13. 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?
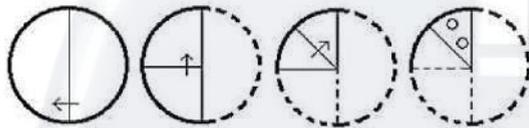
(a)
(b)
(c)
(d)

14. Select the set of classes the relationship among which is best illustrated by the following Venn diagram.

(a) Literates, Engineers, Farmers
(b) Fathers, Brothers, Males
(c) Grandfathers, Fathers, Males
(d) Mothers, Aunts, Doctors

15. Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.
TSF, RPJ, PMN, NJR, ?
(a) LGV
(b) LGN
(c) KGU
(d) JFV

16. In a certain code language, 'CROWD' is coded as 23415924 and 'TRHICK' is coded as 162491997. How will 'FRUGAL' be coded in that language?
(a) 1226761821
(b) 1521012291
(c) 1221021186
(d) 1512021921

17. Six letters and symbols, H, h, I, @, % and $, are written on the different faces of a dice. Two positions of this dice are shown. Select the letter or symbol that will be on the face opposite to the one having 'H'.

(a) @
(b) %
(c) $
(d) h

18. Select the correct water image of the given combination of letters.
D F N Z S R
(a)
(b)
(c)
(d)

19. 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 flowers are beautiful.
Vaidehi is beautiful.
Conclusions: I. Vaidehi is a flower.
II. Some beautiful are flowers.
(a) Either conclusion I or II follows.
(b) Both the conclusions follow.
(c) Only conclusion II follows.
(d) Only conclusion I follows.

20. Select the number from among the given options that can replace the question mark (?) in the following series.
237, 196, 155, 114, ?
(a) 64
(b) 73
(c) 98
(d) 47

21. Select the number from among the given options that can replace the question mark (?) in the following series.
5, 18, 70, 278, ?

(a) 1110   (b) 328

(c) 298   (d) 592

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

48   63   56

42   18   8

45   15   21

51   ?   8

14   9   17

(a) 18   (b) 19

(c) 17   (d) 21

23. 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) GTQ   (b) SPK

(c) JGT   (d) PMN

24. If '@' means 'addition', '%' means 'multiplication', '$' means 'division' and '#' means 'subtraction', then find the value of the following expression.

29 @ 128 $ 16 % 7 # 22

(a) 58   (b) 47

(c) 23   (d) 63

25. In a certain code language, 6219 means 'Sachin is a cricketer' and 2646 means 'He played from Mumbai'. Which of the following is the code for 'Mumbai is very famous'?

(a) 6285   (b) 2458

(c) 7945   (d) 6246

Solutions

1. (a): $223 : 350 :: 519 : x$

Logic is $\rightarrow (6^3 + 7): (7^3 + 7)$

Similarly $(8^3 + 7) : (9^3 + 7)$

$= 9^3 + 7 = 736$

2. (d): According to Question

$3P + 6N = 180$ _____ (1)

$5P + 2N = 116$ _____ (2)

Multiplying 3 in equation (2) we get

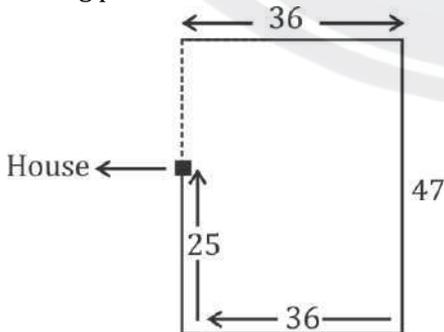$15P + 6N = 348$ _____ (3)

From Eq^n (1) and (3)

$12P = 168 \Rightarrow P = 14$
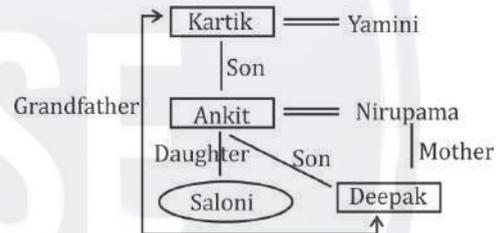
Mohit's spending on buying notebooks = 180 - 3 × 14 = 138
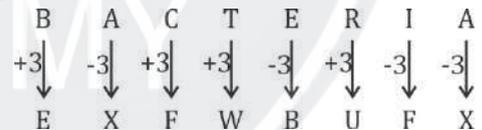
3. (c):

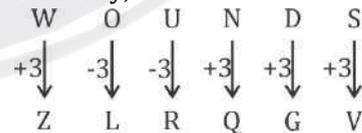Ending point

Gaurav 22 m North from his house

4. (c):

Kartik is father of Ankit

5. (a):

Logic → Subtract 3 from the vowels, Add 3 to the consonant.

Similarly,

= ZLRQGV

6. (a): The Series

L Z X C V / L Z X C V / L Z X C V / L Z X C V
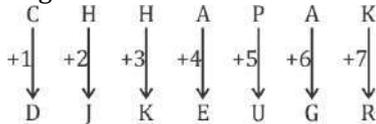
$\Rightarrow$ Answer is L X V X V C Z X C

7. (d):

8. (c): $60 + 48 \div 36 \times 6 - 15 = 53$

$60 + \frac{48}{36} \times 6 - 15 = 53$
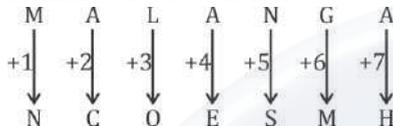
$\Rightarrow 68 - 15 = 53 \Rightarrow 53 = 53$

Hence $(+, \div, \times, -, =)$ is Answer.

9. (a): Logic is →

```
C    H    H    A    P    A    K
+1   +2   +3   +4   +5   +6   +7
↓    ↓    ↓    ↓    ↓    ↓    ↓
D    J    K    E    U    G    R
```

Similarly,
MALANGA is NCOESMH

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M    A    L    A    N    G    A
+1   +2   +3   +4   +5   +6   +7
↓    ↓    ↓    ↓    ↓    ↓    ↓
N    C    O    E    S    M    H
```

10. (a):

11. (c): The sitting is →
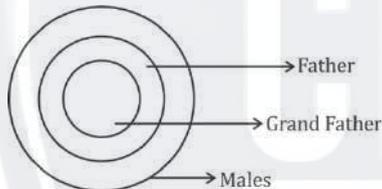<u>Gaurav</u>, <u>Hatim</u>, <u>Varun</u>, <u>Zaid</u>, <u>Amit</u>, Yukti
Hatim is sitting at second place.

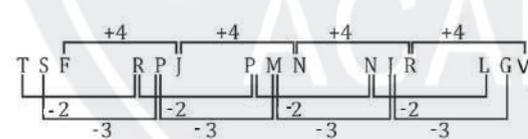**12. (b):** Arrangement as English dictionary
⇒ Petition, Petitionary, Petitioners, Petitioning
3, 1, 5, 4, 2

13. (c):

14. (c):

→ Father
→ Grand Father
→ Males

15. (a):

```
        +4        +4        +4        +4
T S F   R P J   P M N   N I R   L G V
  -2      -2      -2      -2
   -3      -3      -3      -3
```

Hence, LGV is Answer.

16. (d): CROWD is coded as 23415924
Logic → opposite of the consonant value, put vowels in the same alphabetical order and reverse the number.
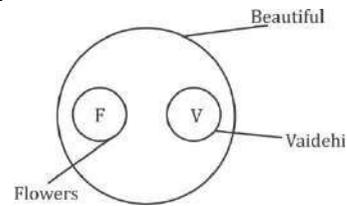Similarly, FRUGAL → 1512021921

17. (a):

Opposite faces → I   H   %
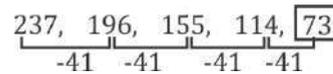   ↓   ↓   ↓
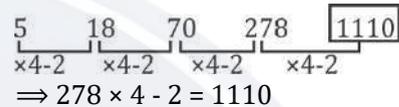   I   @   h

Hence (a) is Answer.

18. (a):

19. (c):

Beautiful
F   V
Vaidehi
Flowers

20. (b):

237, 196, 155, 114, [73]
   -41   -41   -41   -41

Hence 73 is Answer.

21. (a):

5   18   70   278   [1110]
  ×4-2 ×4-2 ×4-2 ×4-2

$\Rightarrow 278 \times 4 - 2 = 1110$

22. (d): Format should be :
One number from 1st series
Three numbers from 2nd series
One nubers from 3rd series

```
    48  6          63  3              56  7
42  18   8      45  15  21        51  ?   8
  3  14          5  9             3   17
6 × 3 = 18      5 × 3 = 15        7 × 3 = 21
```
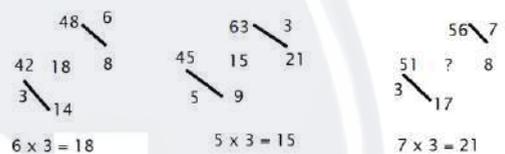
23. (a):

S P K   J G T   P M N
Opposite   Opposite   Opposite

Hence G T Q is Answer

24. (d): $29 + 128 \div 16 \times 7 - 22 = 29 + 56 - 22 = 63$

25. (d): Sachin is a Cricketer = 6219
He played From Mumbai = 2646
Code to a word is given as per the number of letter in the word
Sachin = 6
Is = 2
A = 1
Cricketer = 9
He = 2
Played = 6
From = 4
Mumbai = 6
Thus
Mumbai = 6
Is = 2
Very = 4
Famous = 6
Hence , Mumbai is very famous = 6246