12   **Practice Set**

1. In a certain code language 'RESULT' is coded as '765149' and 'PUT' is coded as '219'. How will 'TEST' be coded in that language.
(a) 9659   (b) 6599
(c) 5969   (d) 9496

2. A is the brother of B, C is the father of A. D is the brother of C. If E is the mother of D, then how A is related to E?
(a) Uncle   (b) Father
(c) Brother   (d) Grandson

3. . Four words have been given, out of which three are like in some manner and one is different. Select the word that is different.
(a) Amaravati   (b) Itanagar
(c) Dispur   (d) Ahmedabad

4. Select the option in which the number one related in the same way as are the numbers of the following set.
(341, 12, 485)
(a) (255, 16, 511)   (b) (325, 14, 515)
(c) (125, 18, 448)   (d) (99, 15, 320)

5. Select the number from among the given options that can replace the question mark(?) in the following series.
36, 72, 75, 300, 305, ?
(a) 1840   (b) 1845
(c) 1825   (d) 1830

6. How many triangles are there in the following figure?

(a) 12   (b) 8
(c) 14   (d) 10

7. In a certain code language 'PLAYER' is written as 'CNRTGA'. How will 'ANJALI' be written in that language?
(a) LPCNKB   (b) LPCKNC
(c) PCKNCL   (d) PCKLMN

8. Select the option in which the given figure is embedded.

(a)   (b)

(c)   (d)
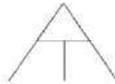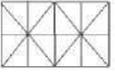
9. Select the option in which the numbers re related in the same way as are the numbers of the following set.
(18, 648, 9)
(a) (19, 750, 9)   (b) (17, 819, 8)
(c) (21, 588, 7)   (d) (11, 492, 9)

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). ONC   (b). RYE
(c). NXG   (d). LOC

11. Select the option that is related to the third word in the same way as the second word is related to the firs word.
Cercopithecidae : Monkey :: Loxodonta : ?
(a) Donkey   (b) Pigeon
(c) Parrot   (d) Elephant

12. Select the letter-cluster from among the given options that can replace question mark(?) in the following series
XWP, VUO, RSN, OQM, ?
(a) LOL   (b) LOM
(c) LPN   (d) KPN

13. Select the letter from among the given options that can replace the question mark (?) in the following series.
X, V, R, P, ?
(a) L   (b) M
(c) N   (d) O

14. Select the correct mirror image of the given figure when the mirror is placed on the right of the figure

(a)   (b)

(c)   (d)
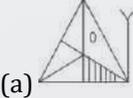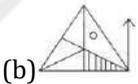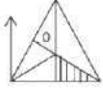
15. Two different positions of the same dice are shown, the six faces of which are marked P, D, E, F, N and O. select the letter that will be on the face opposite to the face showing the letter 'P'.
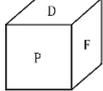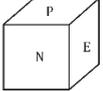
(a) E   (b) O
(c) F   (d) N

16. The sequence of folding a piece of square paper and the manner in which the folded paper has been cut is shown in figures X, Y and Z. How would this paper look when unfolded?

(a)   (b)

(c)   (d)
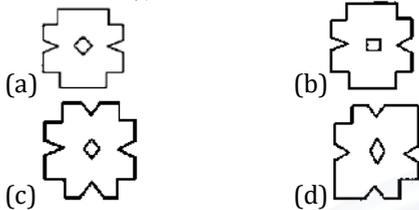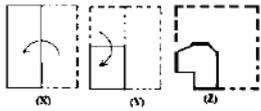
17. Select the option in which the words share the same relationship as that shared by the given pair of words.
Cricket : Rishabh Pant
(a) Boxing : Mary Kom
(b) Kabaddi : Saina Nehwal
(c) Wrestling : Rani Prampal
(d) Chess : Sania Mirza

18. Four number-pairs have been given out of which three are like in same manner and one is different. Select the number pair that is different.
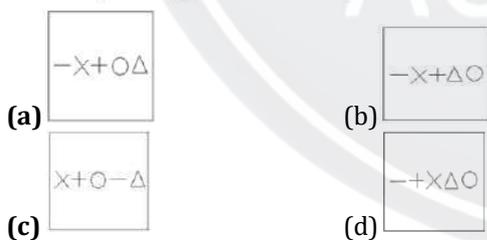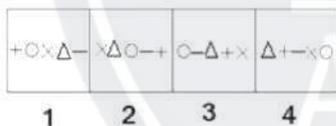(a) 276 : 15   (b) 383 : 18
(c) 243 : 14   (d) 309 : 16

19. Select the correct combination of mathematical signs that can sequentially replace the * signs and balance the equation.
1448 * 8 * 19 * 50 * 14 * 0
(a) ÷, ×, =, +, −   (b) ÷, ×, +, −, =
(c) ÷, +, −, ×, =   (d) ÷, −, +, ×, =

20. Select the figure that will come next in the following series.

(a)   (b)

(c)   (d)

21. Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary.
1. Introduced   2. Intercept
3. Inception   4. Injunction
5. Introduction   6. Interruption
(a) 3, 4, 2, 1, 5, 6   (b) 3, 4, 2, 6, 1, 5
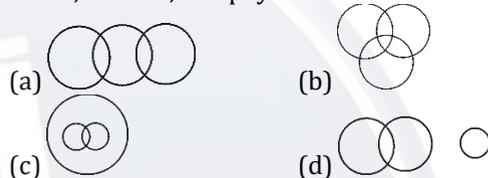(c) 3, 2, 4, 5, 6, 1   (d) 3, 2, 6, 1, 5, 4

22. Select the option that is related to the fourth number in the same way as the first number is related to the second number and the fifth number is related to the sixth number.
517 : 5 :: ? : 6 :: 347 : 4
(a) 785   (b) 657
(c) 735   (d) 651

23. Select the Venn diagram the best illustrates the relationship between the following classes.
Sister, Mother, Tax payer.

(a)   (b)

(c)   (d)

24. Radhika purchases 8 pineapple, 3 apple and 8 oranges in Rs 325. If the ratio of the cost (per piece) of pineapple, apple, and orange is 5 : 3 : 2, what will be the cost of 3 pineapple, 5 apple and 1 orange?
(a) 145   (b) 170
(c) 160   (d) 175

25. Read the given statements and conclusion carefully. Assuming that the information given in the statement is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusion logically follow from the statements.
Statement:
Some Potato are Tomato
Some chilly are Potato
All chilly are Ginger
Conclusion:
I. Some Ginger is chilly   II. All Tomato are Ginger.
III. All chilly are Potato.
(a) Only conclusions II and III follows.
(b) Only conclusions I and II follows.
(c) Only conclusion I follows.
(d) Only conclusion I and III follows.
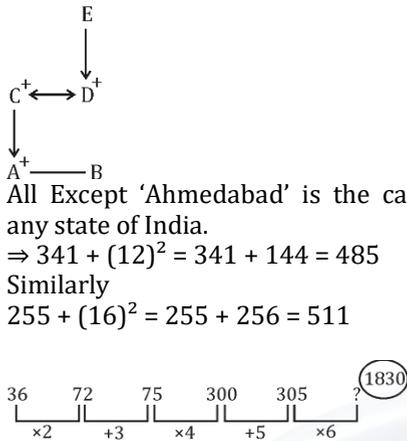
Solutions

1. (a):

R E S U L T
↓ ↓ ↓ ↓ ↓ ↓
7 6 5 1 4 9

and

P U T
↓ ↓ ↓
2 1 9

All alphabets represented as a number. So,
T E S T
↓ ↓ ↓ ↓
9 6 5 9

2. (d): A is grandson of E

E
↓
C⁺ ⟷ D⁺
↓
A⁺ —— B
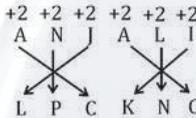
P ⟶ D ⟶ F
O ⟨
P ⟶ E ⟶ N

3. **(d):** All Except 'Ahmedabad' is the capital city of any state of India.

4. **(a):** $\Rightarrow 341 + (12)^2 = 341 + 144 = 485$
Similarly
$255 + (16)^2 = 255 + 256 = 511$

5. **(d):**

36   72   75   300   305   ?   (1830)
  ×2   +3   ×4   +5   ×6

6. **(a):**

7. **(b):**

+2 +2 +2 +2 +2 +2
P L A Y E R
C N R T G A

Similarly

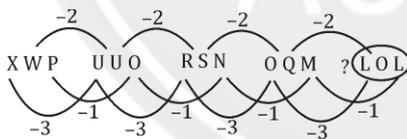+2 +2 +2 +2 +2 +2
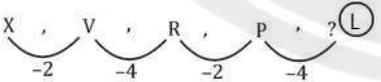A N J A L I
L P C K N C

8. **(c):**

9. **(c):** (18, 648, 9)
$\Rightarrow 18 \times 9 = 162 \times 4 = 648$
Similarly
(21, 588, 7)
$\Rightarrow 21 \times 7 = 147 \times 4 = 588$

10. **(c):** ONC = 15 + 14 + 3 = 32 even.
RYE = 18 + 25 + 5 = 48 even.
NXG = 14 + 24 + 7 = 45 odd.
LOC = 12 + 15 + 3 = 30 even.

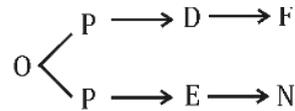**11.** **(d):** Monkey's scientific name is Cercopithecidae. Similarly, Elephant's scientific name is Loxodonta.

12. **(a):**

   -2   -2   -2   -2
X W P   U U O   R S N   O Q M   ?(L O L)
     -3   -1   -3   -1   -3   -1

13. **(a):**

X , V , R , P , ?(L)
  -2   -4   -2   -4

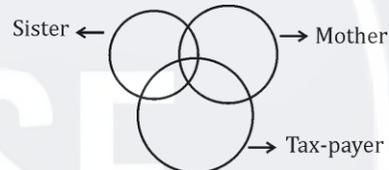**14.** **(b):**

15. **(b):**

16. **(a):**

17. **(a):** Rishabh Pant is related to cricket. Similarly, Mary Kom is related to Boxing.

18. **(a):** $\Rightarrow 15 \Rightarrow (15)^2 + 15 \times 3 + 5 \Rightarrow 275 \neq 276$
$18 = (18)^2 + 18 \times 3 + 5 = 383$
$14 = (14)^2 + 14 \times 3 + 5 = 243$
$16 = (16)^2 + 16 \times 3 + 5 = 309$

19. **(c):** $1448 \div 8 + 19 - 50 \times 4 = 0$
$181 + 19 - 200 = 0$
$200 - 200 = 0$
$0 = 0$

20. **(a):**

21. **(b):** 3. Inception
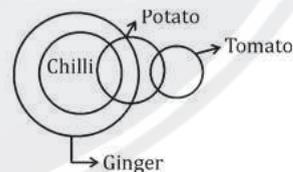4. Injunction
2. Intercept
6. Interruption
1. Introduced
5. Introduction

22. **(c):** $\Rightarrow (5 + 3)^3 + 5 = 517$
and $= (4 + 3)^3 + 4 = 347$
Similarly, $(6 + 3)^3 + 6 = 735$

23. **(b):**

Sister ←   → Mother

              → Tax-payer

24. **(c):** Let the cost price of pineapple, apple and orange is 5x, 3x and 2x.
$5x \times 8 + 3x \times 3 + 2x \times 8 = 325$
$40x + 9x + 16x = 325$
$65x = 325$
$x = 5$
Now, the cost = $3 \times 25 + 5 \times 15 + 1 \times 10$
$= 75 + 75 + 10 = 160.$

25. **(c):**

                    → Potato
                    → Tomato
Chilli
                    → Ginger

I. ✓
II. ✗
III. ✗