05 Practice Set

1. Select the option in which the given figure is embedded (rotation is NOT allowed).

(a)   (b)

(c)   (d)

2. Study the given matrix carefully and select the number from among the given options that can replace the question mark (?) in it.
7 13 174
9 25 104
11 30 ?
(a) 335   (b) 100
(c) 431   (d) 129

3. Select the option that is related to the third number in the same way as the second number is related to the first number.
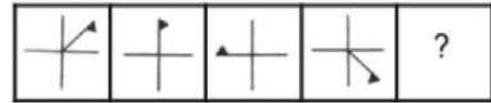23 : 441 :: 28 : ?
(a) 494   (b) 692
(c) 676   (d) 528

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

%OVeRtHRoW&

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

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

6. Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.
_ L H _ _ U _ H _ _ U _ H _ N U _ _ E N
(a) U, E, N, L, E, N, L, E, L, H
(b) U, E, L, E, N, N, L, H, N, E
(c) E, U, N, L, N, E, L, E, H, L
(d) U, E, N, L, E, L, H, L, E, H

7. In a certain code language, MONEY is written as PRQHB. In the same code language,
CREDIT will be written as:
(a) FHGULW   (b) FUHGLW
(c) FUHGWL   (d) FUGHLW

8. Four 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 one having the number '1'.

(a) 2   (b) 6
(c) 3   (d) 4

9. Select the number from among the given options that can replace the question mark (?) in the following series.
10, 14, 31, 35, 73, 77, ?
(a) 81   (b) 157
(c) 90   (d) 154

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

16, 33, 100, 401, ?

(a) 1235   (b) 1588

(c) 804   (d) 2006

11. In a certain code language, 'RAKHI' is coded as 36-2-22-16-18 and 'SHALU' is coded as 38- 16-2-24-42. How will 'MANJU' be coded in that language?

(a) 13-2-14-10-24   (b) 26-1-14-20-42

(c) 13-2-28-10-24   (d) 26-2-28-20-42

12. Which two numbers and which two signs should be interchanged to balance the following equation?

24 ÷ 16 – 96 + 48 × 12 = 195

(a) 12 and 16, × and ÷   (b) 24 and 48, × and ÷

(c) 24 and 16, – and ÷   (d) 12 and 48, × and +

13. Five persons are sitting in a row facing the north. One of the two persons at the extreme ends is an introvert and the other one is an extrovert. A thin person is sitting to the immediate right of an intelligent person. A weak person is sitting to the immediate left of the extrovert person. The intelligent person is sitting exactly between the introvert and the thin persons. Which of the following persons is sitting at the centre?
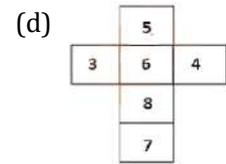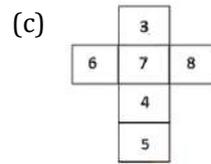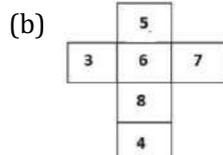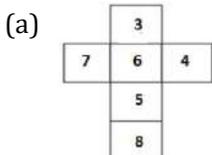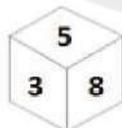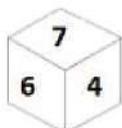
(a) Thin   (b) Intelligent

(c) Extrovert   (d) Weak

14. Select the correct option that indicates the arrangement of the given words in a logical and meaningful order.

1. Starfish   2. Blue whale

3. Shark   4. Giant tortoise

5. Penguin

(a) 1, 5, 3, 2, 4   (b) 1, 5, 4, 2, 3

(c) 1, 5, 4, 3, 2   (d) 4, 5, 1, 3, 2

15. Two orientations of the same box are shown. How will this box look when unfolded?

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

(a) FIMRX   (b) ZCGLS

(c) NQUZF   (d) LOSXD

17. The sequence of folding a piece of paper (figure i) and the manner in which the folded paper has been cut (figure ii) is shown in the following figures. Select the option that would most closely resemble the unfolded form of figure (ii).
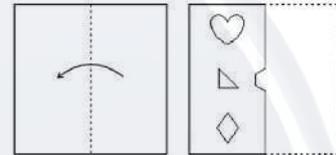
18. Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.

KYBA, FTEE, AOHI, VJKO, ?, LZQA

(a) PFNU   (b) QENU

(c) QDNI   (d) QEMI

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: No pink is yellow.

No yellow is white.

All reds are yellows.

Conclusions: I. No red is pink.

II. No red is white.

III. No white is yellow.

(a) Only conclusions I and III follow
(b) Only conclusions II and III follow
(c) Only conclusions I and II follow
(d) All the conclusions follow

20. In a certain code language, 'her father is okay' is coded as 6583, 'my father is well' is coded as 5137 and 'her arm is injured' is coded as 2839. How will 'okay' be coded in that language?
(a) 5   (b) 8
(c) 3   (d) 6

21. A side of a square-shaped park is 12 m. If a squared-shaped garden with a side of 24 m is developed around the park, what will be total area of the park including the garden?
(a) $324 \, m^2$ (b) $288 \, m^2$
(c) $144 \, m^2$ (d) $576 \, m^2$

22. Pamila is the granddaughter of Akun who is married to Nikita. Murali is the brother-in-law of Akun who has two daughters but no son. Rahul is the cousin of Kamal and brother of Pamila. Uday and Vanmay are the sons-in-law of Nikita. Vanmay is married to Yamini and they have two daughters and one son. Uday has one son and one daughter. Tina and Smita are the daughters of Yamini. Murali is unmarried. How is Yamini related to Rahul?
(a) Mother   (b) Daughter
(c) Aunt   (d) Sister

23. Select the option that is related to the third term in the same way as the second term is related to the first term.
PATELS : BQFUTM :: NECTAR : ?
(a) FOVDBS   (b) OEUDQB
(c) FODUSZ   (d) FOUDSB

24. In the following Venn diagram, the hexagon stands for 'police officers', the pentagon stands for 'graduates', the circle stands for 'females', and the square stands for 'Indians'. The given numbers represent the number of persons in that particular category.
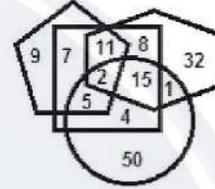
How many Indian police officers are graduates but NOT females?
(a) 19   (b) 8
(c) 11   (d) 13

25. Which two digits should be interchanged to make the given equation correct?
$384 \div 16 - 72 + 9 \times 10 = 2$
(a) 4 and 8   (b) 7 and 9
(c) 6 and 9   (d) 3 and 7

Solutions

1. **(b):**

2. **(c):** The logic here is → $(7)^3 - (13)^2 = 174$
$(9)^3 - (25)^2 = 104$
Similarly, $(11)^3 - (30)^2 = 431$

3. **(c):** 23 : 441 :: 28 : ?
Logic is → $(23 - 2)^2 = 441$
Similarly, → $(28 - 2)^2 = 676$

4. **(a):**

5. **(c):** Logic : Here in each figure add 45 degree more.

6. **(a):** The pattern followed here is
U L H **E N** / U L **H** E **N** / U **L** H E **N** / U L **H** E N
Hence option (a) is answer

7. **(b):** The pattern is

M	O	N	E	Y
↓+3	↓+3	↓+3	↓+3	↓+3
P	R	Q	H	B

Similarly,

C	R	E	D	I	T
↓+3	↓+3	↓+3	↓+3	↓+3	↓+3
F	U	H	G	L	W

8. **(c):** Opposite faces are
4   5   1
↓   ↓   ↓
4   2   3
Hence 3 is opposite face of 1.

9. **(b):** Logic→
10   14   31   35   73   77   157
×1+4   ×2+3   ×1+4   ×2+3   ×1+4   ×2+3
Hence 157 is Answer.

10. (d):

16,   33,   100,   401,   ?

Pattern → ×2+1   ×3+1   ×4+1
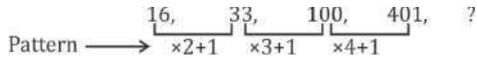
Hence as pattern follows, 2006 replace the question mark

11. (d):

R   A   K   H   I
↓   ↓   ↓   ↓   ↓
36 2   22 16 18

Similarly,

S   H   A   L   U
↓   ↓   ↓   ↓   ↓
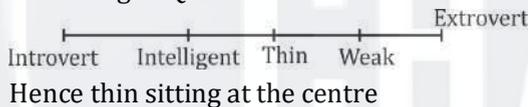38 16 2   24 42
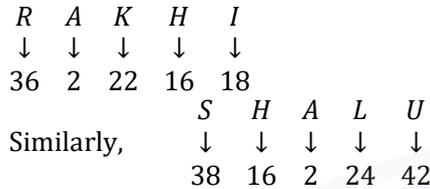
Hence

M   A   N   J   U
↓   ↓   ↓   ↓   ↓
26 2   28 20 42

Logic → double each place value of alphabets.

12. (a): $24 \div 16 - 96 + 48 \times 12 = 195$

$\Rightarrow 24 \times 12 - 96 + 48 \div 16 = 195$
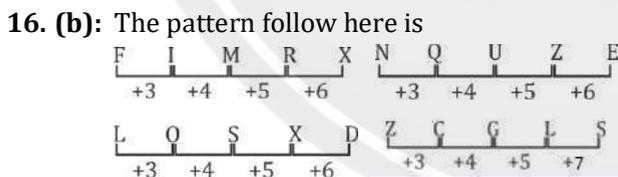
$\Rightarrow 288 - 96 + 3 = 195$

$\Rightarrow 195 = 195$

Hence [12 and 16, × and ÷ Interchanged]
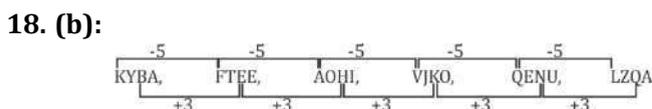
13. (a): According to Question

Extrovert

Introvert   Intelligent   Thin   Weak

Hence thin sitting at the centre

14. (c): 1. Starfish, Penguin, Giant tortoise, Shark, Bule Whale
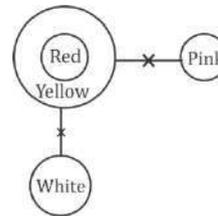
Hence correct order is 1, 5, 4, 3, 2

15. (c):

16. (b): The pattern follow here is

F   I   M   R   X   N   Q   U   Z   E
 +3 +4 +5 +6   +3 +4 +5 +6

L   O   S   X   D   Z   C   G   L   S
 +3 +4 +5 +6   +3 +4 +5 +7

Hence option (b) is Answer

17. (d):

18. (b):

-5   -5   -5   -5   -5
KYBA,   FTEE,   AOHI,   VJKO,   QENU,   LZQA
 +3   +3   +3   +3   +3
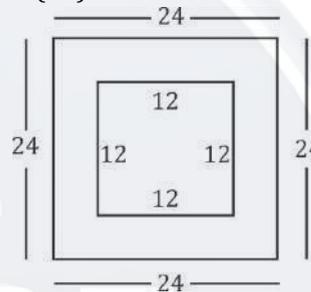
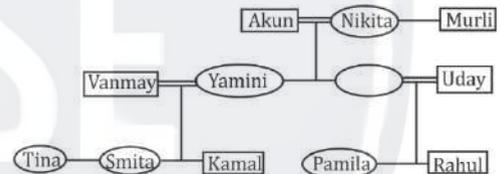Hence option (b) is Answer

19. (d):

All the conclusions follow

20. (d): Her father is okay = 6583

My father is well = 5137

Her arm is injured = 2839

Hence Okay be coded '6'
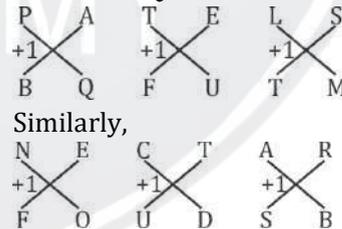
21. (d): Total area of park

$= (24)^2 = 576 \text{ m}^2$

22. (c):

So Yamini is aunt of Rahul.

23. (d): PATELS : BQFURTM : : NECTAR

P   A   T   E   L   S
+1✕   +1✕   +1✕
B   Q   F   U   T   M

Similarly,

N   E   C   T   A   R
+1✕   +1✕   +1✕
F   O   U   D   S   B

24. (c): Indian officer are graduates but not females = 11

25. (b): $384 \div 16 - 72 + 9 \times 10 = 2$

$\Rightarrow 384 \div 16 - 92 + 7 \times 10 = 2$

$24 - 92 + 70 = 2$

$94 - 92 \Rightarrow 2 = 2$

Hence 9 and 7 interchanged