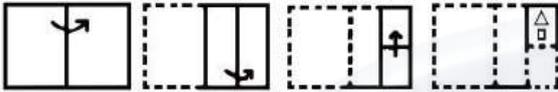


15

Practice Set

1. 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)
2. Select the option that represents the correct order of the given words as they would appear in an English dictionary.
1. Manuscript 2. Minor
3. Melody 4. Malicious
5. Memory
- (a) 4, 1, 5, 2, 3 (b) 1, 3, 4, 5, 2
(c) 4, 1, 3, 5, 2 (d) 1, 4, 3, 5, 2
3. Avani got 78% marks in an examination and Kapil got 64% marks in the same examination. If the sum of the marks obtained by Kapil and Avani is 923, then find the marks obtained by Kapil in the examination.
- (a) 600 (b) 458
(c) 507 (d) 416
4. Select the correct combination of mathematical signs that can sequentially replace the * signs and make the given equation correct.
- $$55 * 126 * 14 * 520 * 30 * 5$$
- (a) =, ×, +, ÷, - (b) +, ÷, -, =, ×
(c) =, -, +, ÷, × (d) ×, ÷, =, -, +
5. Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.
- LGG, PJJ, KMO, OPT, LSG, ?
- (a) OVK (b) NUL
(c) PUK (d) PVL

6. In a certain code language, 'SALT' is coded as '16', and 'PICKLE' is coded as '36'. How will 'PRESERVATIVE' be coded in that language?

(a) 72 (b) 96
(c) 144 (d) 88

7. Select the letter-cluster that can replace the question mark (?) in the following series.

YZT, WXR, UVP, ?

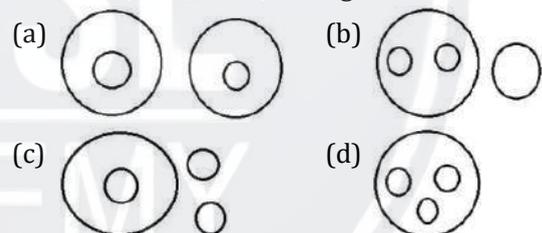
(a) TSO (b) STN
(c) STM (d) TSM

8. There are six members, P, Q, R, S, T and U, in a family. T is the brother of P's husband. U is the mother of T. Q is the daughter of S and P and the granddaughter of R. How is R related to T?

(a) Son (b) Uncle
(c) Brother (d) Father

9. Select the Venn diagram that best represents the relationship between the following.

Furniture, Bed, Chair, Dining table



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

61, 70, 95, ?, 225, 346

(a) 144 (b) 136
(c) 182 (d) 132

11. 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) WEKP (b) SHOL
(c) FUBY (d) PKRI

12. 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 bean bags are chairs.
All chairs are couches.
All couches are sofas.

Conclusions: I. Some sofas are couches.
II. Some couches are bean bags.
III. All couches are bean bags.

- (a) Only conclusions I and II follow.
(b) All conclusions I, II and III follow.
(c) Only conclusion II follows.
(d) Only conclusions II and III follow.
- 13.** A cube of side 125 cm is painted red on all the faces and then cut into smaller cubes of sides 25 cm each. Find the number of smaller cubes having at least two faces painted.
(a) 48 (b) 52
(c) 36 (d) 44
- 14.** One morning, Chitrashi and Ayaan sit facing each other. If the shadow of Ayaan falls to the left of Chitrashi, then in which direction is Ayaan facing?
(a) South (b) West
(c) North (d) East
- 15.** In a certain code language, 'take this vaccine' is written as '892', 'vaccine protects us' is written as '263', and 'take us safe' is written as '593'. How will 'safe vaccine' be written in that language?
(a) 26 (b) 23
(c) 85 (d) 25
- 16.** Study the given pattern carefully and select the number from among the given options that can replace the question mark (?) in it.
- | | | |
|----|----|----|
| 24 | 36 | 32 |
| 6 | 3 | ? |
| 12 | 2 | 24 |
| 12 | 54 | 24 |
- (a) 10 (b) 18
(c) 29 (d) 15
- 17.** Select the number from among the given options that can replace the question mark (?) in the following series.
352, 288, 252, 236, ?
(a) 232 (b) 208
(c) 192 (d) 220

- 18.** Six friends, David, Bhanu, Minto, Krita, John and Nisan, are sitting in a circle with their backs towards the centre. David and Minto are sitting to the immediate left and right of Bhanu, respectively. John is not sitting to the immediate left of David. Nisan is sitting third to the right of Bhanu. Who is sitting second to the left of Bhanu?
(a) Minto (b) Nisan
(c) John (d) Krita

- 19.** Which two signs need to be interchanged to make the following equation correct?

$$9 \times 98 \div 14 + 3 - 19 = 11$$

- (a) + and × (b) ÷ and -
(c) - and × (d) - and +

- 20.** In a certain code language, 'DURABLES' is written as 'BSVETFMC'. How will 'FEASIBLE' be written in that language?

- (a) TDFGFNCJ (b) TBGHFMDJ
(c) TBFFGMJC (d) TBFGFMCJ

- 21.** Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.

JLT : QPG :: SGB : ?

- (a) KJX (b) GLB
(c) FKX (d) HKY

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

68 : 321 :: 525 : ?

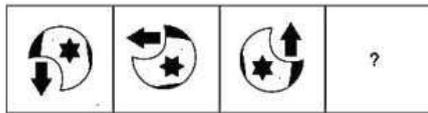
- (a) 792 (b) 778
(c) 852 (d) 681

- 23.** Select the option in which the given figure is embedded (rotation is NOT allowed).



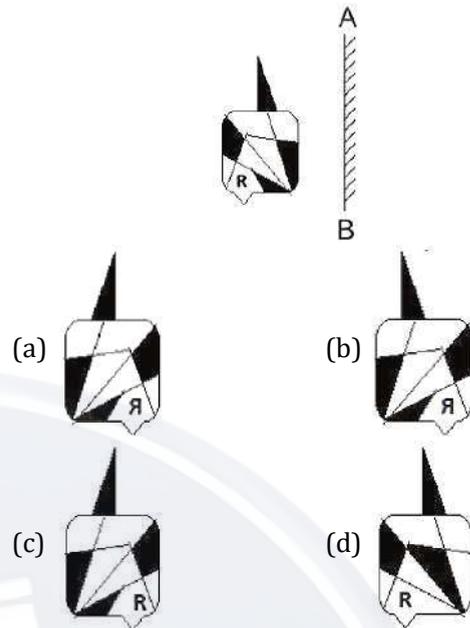
- (a) (b)
(c) (d)

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



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

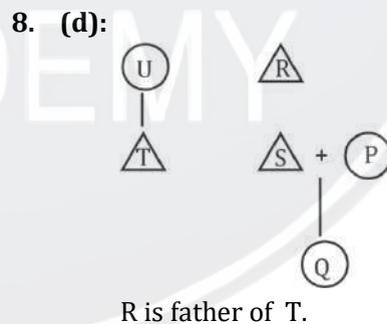
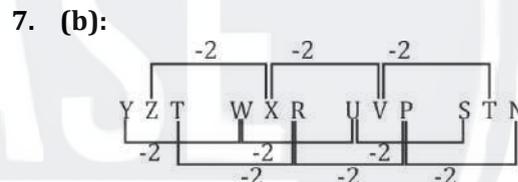
25. Select the correct mirror image of the given figure when the mirror is placed at 'AB' as shown.



Solutions

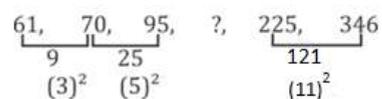
1. (b):
2. (c): Arranging as per dictionary order Malicious, Manuscript, Melody, Memory, Minor
3. (d): A.T.Q.
 $78\% + 64\% \rightarrow 923$
 $142\% \rightarrow 923$
 $100\% \rightarrow \frac{923}{142} \times 100$
 $100\% \rightarrow 650$
 Marks of Kapil
 $\Rightarrow 650 \times \frac{64}{100} = 416$
4. (d): Picking up option (d)
 After replacing the * with the symbols in the option we get:
 $55 \times 126 \div 14 = 520 - 30 + 5$
 $\Rightarrow 55 \times 9 = 495$
 $\Rightarrow 495 = 495$
5. (d):
 $L \xrightarrow{+4} P \xrightarrow{\text{Opposite}} K \xrightarrow{+4} O$
 $\xrightarrow{\text{Opposite}} L \xrightarrow{+4} P$
 $G \xrightarrow{+3} J \xrightarrow{+3} M \xrightarrow{+3} P$
 $\xrightarrow{+3} S \xrightarrow{+3} V$
 $G \xrightarrow{+5} L \xrightarrow{\text{Opposite}} O \xrightarrow{+5} T$
 $\xrightarrow{\text{Opposite}} G \xrightarrow{+5} L$

6. (c): $SALT \rightarrow 4^2 \rightarrow 16$
 $PICKLE \rightarrow 6^2 \rightarrow 36$
 $PRESERVATIVE \rightarrow 12^2 \rightarrow 144$



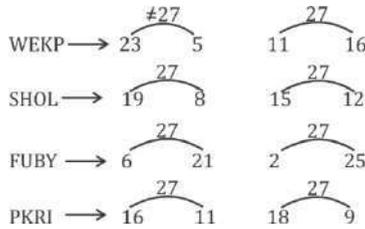
9. (d):

10. (a):

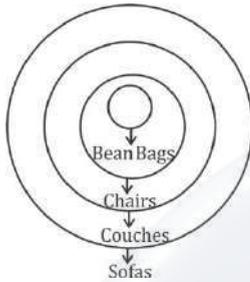


Series of
 $(3)^2, (5)^2, (7)^2, (9)^2, (11)^2$
 $95 + (7)^2 = 95 + 49 = 144$

11. (a):



12. (a):



13. (d):

Total number of cubes
 $125 \times 125 \times 125 = N \times 25 \times 25 \times 25$
 $125 = N$
 Total no. of cubes having two faces painted
 $= 12(N - 2) = 12 \times 3 = 36$
 Total no. of cubes having three faces painted
 $= 8$
 Total number of cubes having at least 2 faces painted,
 $\Rightarrow 36 + 8 = 44$

14. (a):

15. (d):

Take	this	vaccine	8	9	2
Vaccine	Protects	us	2	6	3
Take	us	safe	5	9	3

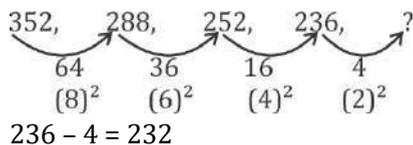
Vaccine $\rightarrow 2$
 us $\rightarrow 3$
 Take $\rightarrow 9$
 Using option elimination
 Safe vaccine $\rightarrow 25$

16. (b):

24	36	32
6	3	x
12	2	24
12	54	24

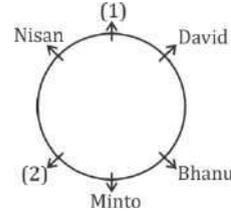
$$\frac{12 \times 12}{6} = 24 \quad \frac{54 \times 2}{3} = 36 \quad \frac{24 \times 24}{x} = 32 \Rightarrow x = 18$$

17. (a):

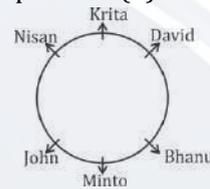


18. (d):

David and Minto are sitting to the immediate left and right of Bhanu, respectively.
 Nisan is sitting third to the right of Bhanu
 Possible arrangement till now



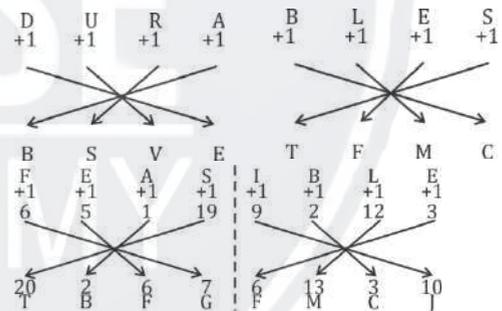
Since, John is not sitting to the immediate left of David. Krita will sit at position (1) and position (2) will be occupied by John.



19. (a):

Considering option (a)
 $9 + 98 \div 14 \times 3 - 19 = 11$
 $9 + 21 - 19 = 11$
 $30 - 19 = 11$
 $11 = 11$
 Hence, Option (a) is correct.

20. (d):



21. (d):

$J \xrightarrow{\text{Opposite}} Q,$ $L \xrightarrow{+4} P$
 $T \xrightarrow{\text{Opposite}} G$
 Similarly,
 $S \xrightarrow{\text{Opposite}} H,$ $G \xrightarrow{+4} K$
 $B \xrightarrow{\text{Opposite}} Y$

22. (b):

$68 + 253 = 321$
 Similarly,
 $525 + 253 = 778$

23. (a):

24. (a):

25. (a):