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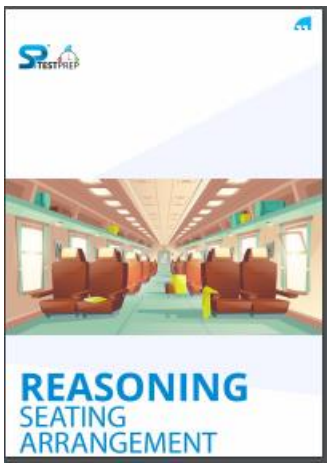

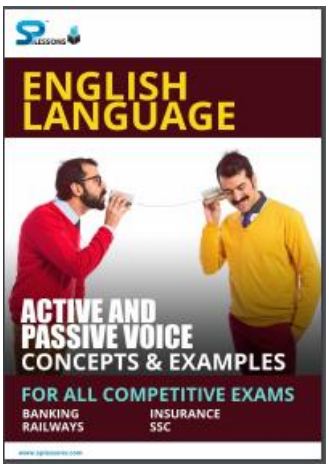

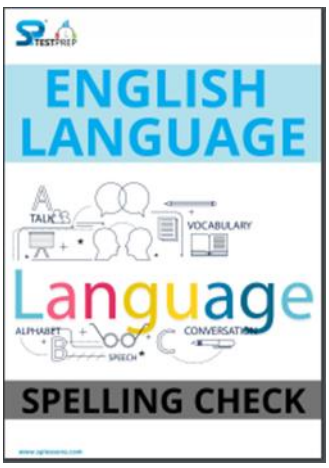

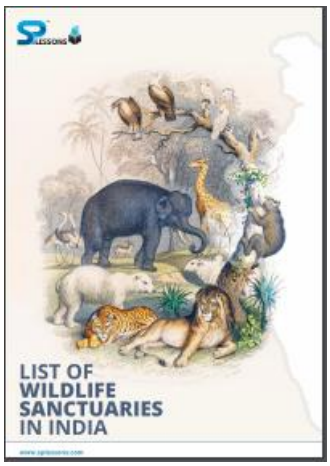

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1. 8: 39:: 72?

- **A.** 64
- **B.** 312
- **C.** 351
- **D.** 300

Answer: C

Explanation:

The antecedent; 8 is first getting multiplied by 5 and then it is getting subtracted by 1 as 8 is the first multiple of 8. (8 = 8 × 1)

⇒ 8 × 5 – 1 = 39

Similarly,

We'll first multiply 72 by 5 and then subtract 9 from it as 72 is the 9th multiple of 8. (72 = 8 × 9)

⇒ 72 × 5 – 9 = 351.

2. 123: 4:: 726?

- **A.** 23
- **B.** 26
- **C.** 14
- **D.** 12

Answer: D

Explanation:

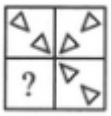
123 ⇒ $\frac{12}{3}$ = 4

Similarly,

726 ⇒ $\frac{72}{6}$ = 12

In this question, first two digits of the given number are divided by the third one.

3. Identify the figure that completes the pattern.



A.

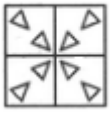
B.

C.

D.

Answer: D

Explanation:



4. Identify the figure that completes the pattern.

A.

B.

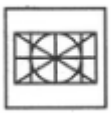
C.

D.

A. 1
B. 2
C. 3
D. 4

Answer: B

Explanation:



5. 26: 5: :65 : ?

- **A.** 6
- **B.** 7
- **C.** 8
- **D.** 9

Answer: C

Explanation: The relationship is $(x^2 + 1) : x$.

Choose the best alternative.

6. 7: 56: :9 : ?

- **A.** 63
- **B.** 81
- **C.** 90
- **D.** 99

Answer: C

Explanation: The relationship is x: x (x + 1).

Direction (7 – 8): In the following series one number is wrong.

Find out the wrong number

7. 3, 14, 47, 146, 453, 1334, 4007

- **A.** 14
- **B.** 47
- **C.** 146
- **D.** 453

Answer: D

Explanation:

The number series should be 443 in the place of 453.

The series is

3 + 11 = 14

14 + 33(11×3) = 47

47 + 99(33×3) = 146

146 + 297(99×3) = 443

443 + 891(297×3) = 1334

1334 + 2673(891×3) = 4007

8. 17, 36, 132, 635, 3500, 21750, 153762

- **A.** 635
- **B.** 17
- **C.** 132
- **D.** 3500

Answer: A

Explanation:

The number series should be 636 in the place of 635.

The series is

$(17 + 1^3) \times 2 = 36$

$(36 + 2^3) \times 3 = 132$

$(132 + 3^3) \times 4 = 636$

$(636 + 4^3) \times 5 = 3500$ and so on.

Directions (9 – 10): In each of the following questions, a word is represented by only one set of numbers are given in anyone of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in the two given matrices. The column and row of Matrix I are numbered from 0 to 4 and those of Matrix II from 5 to 9. A letter from these matrices can be represented first by row and then the column number e.g. in the matrices for questions 1 to 5, K can be represented by 65, 77 etc. H can be represented by 30, 11 etc. Similarly you have to identify the correct set for the word given in each question.

	0	1	2	3	4
0	A	E	S	T	H
1	T	H	A	E	S
2	E	S	T	H	A
3	H	A	E	S	T
4	S	T	H	A	E

Matrix I

	5	6	7	8	9
5	P	O	R	K	L
6	K	L	P	O	R
7	O	R	K	L	P
8	L	P	O	R	K
9	R	K	L	P	O

Matrix II

9. LEAST

- **A.** 85, 01, 00, 40, 41
- **B.** 32, 21, 44, 87, 44
- **C.** 10, 34, 21, 32, 97
- **D.** 00, 66, 33, 20, 34

Answer: A

Explanation:

L → 59, 66, 78, 85, 97

E → 01, 13, 20, 32, 44

A → 00, 12, 24, 31, 43

S → 02, 14, 21, 33, 40

T → 03, 10, 22, 34, 41

LEAST → 85, 01, 00, 40, 41

10. POLAR

- **A.** 66, 31, 95, 33, 43
- **B.** 86, 97, 24, 88, 11
- **C.** 79, 87, 59, 31, 76
- **D.** 00, 86, 32, 89, 57

Answer: C

Explanation:

P → 55, 67, 79, 86, 98

O → 56, 68, 75, 87, 99

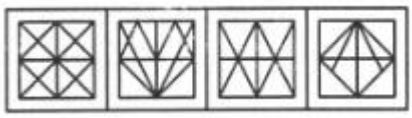
L → 59, 66, 78, 85, 97

A → 00, 12, 24, 31, 43

R → 57, 69, 76, 88, 95

POLAR → 79, 87, 59, 31, 76

11. Find out the alternative figure which contains figure (X) as its part



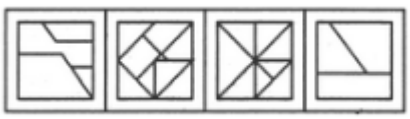
A B C D

A. 1
B. 2
C. 3
D. 4

Answer: C

Explanation:

12. Find out the alternative figure which contains figure (X) as its part.



A B C D

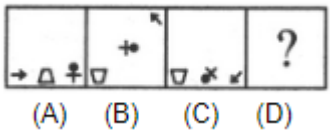
A. 1
B. 2
C. 3
D. 4

Answer: D

Explanation:

13. Select a suitable figure from the Answer Figures that would replace the question mark (?).

Problem Figures:



A. 1
B. 2
C. 3
D. 4

Answer: A

Explanation:

Answer Figures:

The symbols move in the sequence. Also, the arrow rotates 135oACW; the trapezium gets

Inverted and the pin-shaped symbol rotates 90oCW

14. Select a figure from amongst the Answer Figures which will continue the same series as established by the five

Problem Figures:

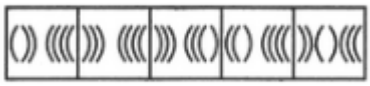
(A) (B) (C) (D) (E)

A. 1
B. 2
C. 3
D. 4

Answer: B

Explanation:

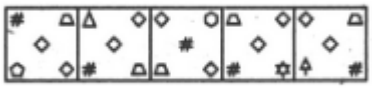
Answer Figures:



(1) (2) (3) (4) (5)

15. Select a figure from amongst the Answer Figures which will continue the same series as established by the fivewo, three, four, two, three, curves get inverted sequentially.

Problem Figures:



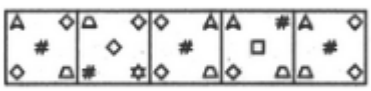
(A) (B) (C) (D) (E)

A. 1
B. 2
C. 3
D. 4

Answer: A

Explanation:

Answer Figures:



(1) (2) (3) (4) (5)

The symbols move in the sequence in the first step. In each subsequent step, the symbols move in the sequence obtained by rotating the previous sequence through 90oCW. Also, in each step, the symbol that reaches the encircled position gets replaced by a new one.

16. Select the one which is different from the other three responses.

A. Shimla
B. Darjeeling
C. Ooty
D. Agra

Answer: D

Explanation: Except Agra, all others are hill stations.

17. Select the one which is different from the other three responses.

A. QURAN
B. GEETA
C. PANCHSHEEL
D. BIBLE

Answer: C

Explanation: Except Panchsheel, all others are holy books. Panchsheel is a set of principles to be followed in relation with other countries.

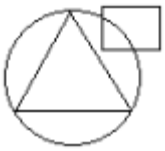
18. If the population of a certain country increases at the rate of one person every 15 seconds, by how many persons does the population increase in 20 minutes?

A. 80
B. 100
C. 150
D. 240

Answer: A

Explanation: Since the population increases at the rate of 1 person every 15 seconds, it increases by 4 people every 60 seconds, that is, by 4 people every minute. Thus, in 20 minutes the population increases by 20 x 4 = 80 people. The best answer is A.

19. In an organization of pollution control board, engineers are represented by a circle, legal experts by a square and environmentalist by a triangle. Who is most represented in the board as shown in the following figure?



A. Environmentalists
B. Legal Experts
C. Engineers with legal background
D. Environmentalists with Engineering background

Answer: D

Explanation: Environmentalists with engineering background is most represented in the board.

20. Which one does not belong to the group?

A. 39
B. 21
C. 83
D. 51

Answer: C

Explanation: 83 is the only prime number in the group.

21. CONSTANTINOPLE

A. CONTINUE
B. CONSCIENCE
C. CONSTANCE
D. CONTENT

Answer: D

22. Should there be a law to punish parents who get their minor children married?

Arguments:

I. Yes, a minor girl is physiologically not prepared to conceive a baby.
II. No, this has been a custom prevailing since many centuries.

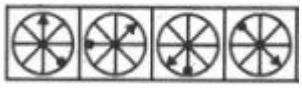
A. If only argument I is strong.
B. If only argument II is strong.
C. If either I or II is strong.
D. If neither I nor II is strong.

Answer: A

Explanation: Statement I explains a valid reason to go against such marriages because it is wrong to encourage anything that jeopardises the health of a person. Hence, (I) is a strong argument.

Statement II is not a valid argument because a custom being followed since a long time does not necessary make it good. Only I is strong.

23. Choose the figure which is different from the rest.



A B C D

A. 1
B. 2
C. 3
D. 4

Answer: D

Explanation: Only in fig. (4), the black triangle and the black circle lie at the two ends of the same diameter.

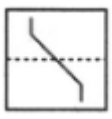
24. In a certain code 'CERTAIN' is coded as 'BFQUZJM'. How is 'MUNDANE' coded in that code?

A. LVMEZOD
B. NTCOMBF
C. NTOCNBF
D. LTMCZOF

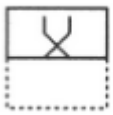
Answer: A

Explanation: Each letter moves -1, +1 alternately. So, M - 1 = L, U + 1 = V and so on. So code for MUNDANE will be LVMEZOD

25. Find out from amongst the four alternatives as to how the pattern would appear when the transparent sheet is folded at the dotted line.



A.

B. 

C.

D.

A. 1
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D. 4

Answer: B

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