



CAREER POINT

NATIONAL TALENT SEARCH EXAMINATION (STAGE 2)-2019

(For Students of Class X) Mental Ability Test

Date: 16-06-2019

Time : 120 minutes

Max. Marks : 100

There are 100 questions in this paper. Each question carries one mark

1. If
 $O + O = 10$
 $O + \square + \square = 10$
 $O + \square - \Delta \times O = 5$
 Then, the value of Δ will be_____.
- (1) 1.5 (2) 2.5 (3) 5 (4) 7.5

Ans. [1]

Sol.

$$2O = 10$$

$$O = 5 \quad \dots(1)$$

$$O + 2\square = 10$$

$$5 + 2\square = 10$$

$$2\square = 5$$

$$\square = 2.5 \quad \dots(2)$$

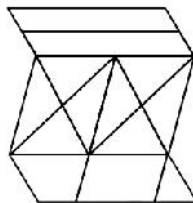
$$5 \times 2.5 - \Delta \times 5 = 5 \text{ by equation (1) \& (2)}$$

$$5(2.5 - \Delta) = 5$$

$$2.5 - \Delta = 1$$

$$\Delta = 1.5$$

2. How many parallelograms are there in the given figure ?



- (1) 14 (2) 15 (3) 16 (4) 17

Ans. [2]

Sol.

By observation

3. A newspaper has 6 sheets consisting of 24 page in total. If page number 17 of that newspaper is missing then find the set of missing pages in that newspaper, from the alternatives given below :

- (1) 6,7,16,17 (2) 7,8,17,18 (3) 8,9,17,18 (4) 9,10,16,17

Ans. [2]

Sol.

No. of pages in newspaper= 24

No. of sheets = 6

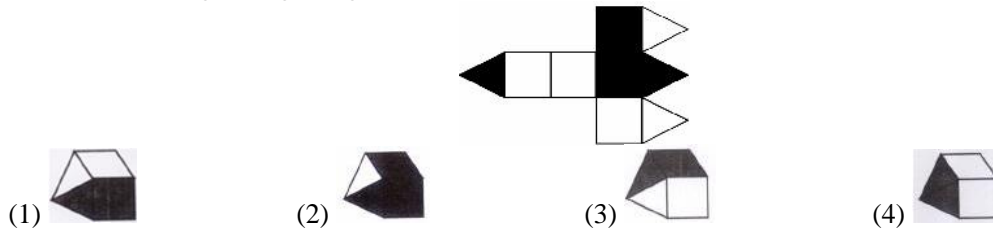
1 sheet = 4 parts

So parts of newspaper will be as follows –

- 1, 2 23, 24
- 3, 4 21, 22
- 5, 6 19, 20
- 7, 8 17, 18
- So on

Set of missing pages = 7,8,17,18

4. The given figure in the question has five squares and four equilateral triangles. Two squares and two triangles are shaded. The figure is folded along the dividing lines the squares by 90° and triangle by 45° so as to form a close three, dimensional object. The object is then placed with its apex pointing towards your left. Which one among the figures given in the alternatives can be seen ?



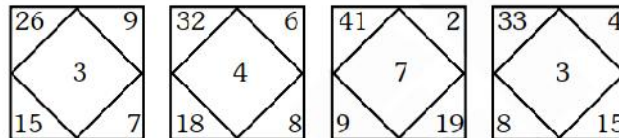
- Ans. [1]
Sol. By observation

5. Complete the following series :
6, 24, 60, ?, 210

- (1) 96 (2) 120 (3) 140 (4) 160

- Ans. [2]
Sol. $2^3 - 2 = 6$
 $3^3 - 3 = 24$
 $4^3 - 4 = 60$
 $5^3 - 5 = 120$
 $6^3 - 6 = 210$

6. By studying the figure and number relationship, find the missing number ?

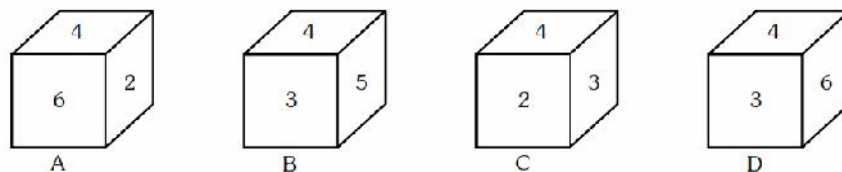


- (1) 5 (2) 6 (3) 9 (4) 12

- Ans. [2]
Sol. $(26 + 7) - (15 + 9) = 9$ Square root = 3
So as it is
 $(33 + 15) - (8 + 4) = 36$ Square root = 6

7. The opposite faces of Dice X are :
[(5,2), (6,3), (4,1)]
The opposite faces of Dice Y are :
[(3,5), (4,1), (6,2)]

Which figure can represent both Dice X and Dice Y with faces shown below ?



- (1) A (2) B (3) C (4) D

Ans. [3]

Sol. In the question given, they are opposite faces.
So given 6 oppt. to 2 So it can't be come aside
As it is (3, 5) & (3, 6) are oppt. faces so it can't also come aside
So option (3) is correct

8. If

$$\begin{array}{r}
 R \ S \ S \ T \ U \\
 + \ N \ R \ S \ T \\
 + \ \ \ \ R \ T \ S \\
 \hline
 3 \ 7 \ 8 \ 4 \ 9
 \end{array}$$

the, find the code of T U R N S from the given alternatives provided there is no carrying over in the given addition using **letter** codes.

- (1) 1 3 6 2 5 (2) 6 5 2 3 1 (3) 1 6 3 5 2 (4) 5 3 1 2 6

Ans. [3]

Sol. In the question given, here is no carry so R = 3(1)

Now put the value of R

$$\begin{array}{r}
 3 \ S \ S \ T \ U \\
 \ \ N \ 3 \ S \ T \\
 \ \ \ \ 3 \ T \ S \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 3 \ 7 \ 8 \ 4 \ 9 \\
 \hline
 \end{array}$$

So S = 2(2)

$$\begin{array}{r}
 3 \ 2 \ 2 \ T \ U \\
 \ \ 5 \ 3 \ 2 \ T \\
 \ \ \ \ 3 \ T \ 2 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 3 \ 7 \ 8 \ 4 \ 9 \\
 \hline
 \end{array}$$

So N = 5(3)

$$\begin{array}{r}
 3 \ 2 \ 2 \ 1 \ 6 \\
 \ \ 5 \ 3 \ 2 \ 1 \\
 \ \ \ \ 3 \ 1 \ 2 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 3 \ 7 \ 8 \ 4 \ 9 \\
 \hline
 \end{array}$$

So T = 1 & U = 6(4)

By equ. (1), (2), (3) & (4)

T U R N S = 1 6 3 5 2

9. A comparison of ages of A, B, C, D and E are as follows.

- I. B's age is half the age of A.
- II. B's age is 1½ times the age of C .
- III. D's age is 12 years less then C.
- IV. D's age is 1½ times the age of E.
- V. The age of E is 12 years.

With the given data what will be the difference in the ages of A and C ?

- (1) 64 (2) 60 (3) 40 (4) 36

Ans. [2]

Sol. $B = \frac{A}{2}$ (1)

$B = C \times 1.5$ (2)

$D = (C - 12)$ (3)

$D = E \times 1.5$ (4)

$E = 12$ (5)

By putting value of E, in (4), $D = 12 \times 1.5 = 18 = 18$ years

By putting value of D in (3), $C = 30$ years

Then, $B = 30 \times 1.5 = 45$ years

A's age = $45 \times 2 = 90$ years.

$\Rightarrow (A - C) = (90 - 30) = 60$ years.

10. If CLOUD = 11, BURST = 16 and ACE = 3, then MONSOON = ?
 (1) 13 (2) 15 (3) 17 (4) 19

Ans. [2]

Sol. Sum of place values of CLOUD = $3 + 12 + 15 + 21 + 4 = 55$

No. of letters in CLOUD = 5

It divided by numbers of letters = $55 \div 5 = 11$

Similarly from BURST = $2 + 21 + 18 + 19 + 20 = 80$

No. of letters in BURST = 5

It divided by numbers of letters = $80 \div 5 = 16$

As it is MANSOON = $13 + 1 + 14 + 19 + 15 + 15 + 14 = 91$

No. of letters in MANSOON = 7

It divided by numbers of letters = $91 \div 7 = 13$

11. Three dice are rolled simultaneously and the numbers shown on all the three dice are added, then the total number of possible ways to have a sum of 7 is _____.
 (1) 12 (2) 13 (3) 15 (4) 16

Ans. [3]

Sol.

Dice 1	Dice 2	Dice 3	Possibility
1	2	4	3
2	2	2	3
3	1	3	3
4	1	2	3
5	1	1	3
			15

12. A comparison of marks scored by Gauri, Aaban, Seerat and Alvina in an examination is as follows.
 I. Gauri has scored 15 marks less than Aaban
 II. Gauri has scored 20 marks more than Seerat
 III. Alvina has scored 10 marks less than Seerat
 To decide who has scored the highest marks, identify the statement from those given in the alternatives is respect of sufficiency of data.

- (1) Data given in I and II are sufficient (2) Data given in I and III are sufficient
 (3) Data given in II and III are sufficient (4) Data given in I, II and III are sufficient

Ans. [4]

Sol. Assume Seerat got marks = x

So Gori = $20 + x$ (1)

Alvina = $x - 10$

Assume Aaban got marks = y

So Gori = $y - 15$ (2)

By equ. (1) & (2)

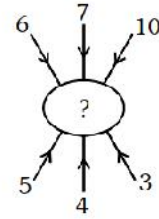
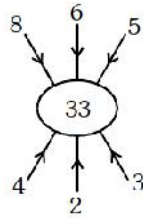
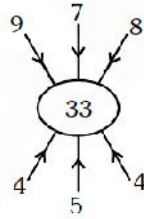
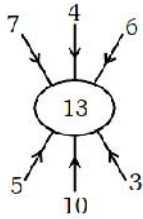
$20 + x = y - 15$

$y - x = 35$

So difference between Aaban & Seerat marks = 35, so all the three statements are needed

So the sequence of marks Aaban > Gori > Seerat > Alvina

13. The number in the place '?' should be _____.



(1) 30

(2) 32

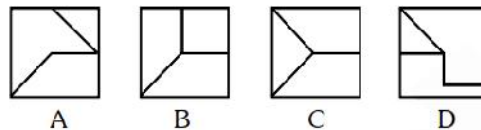
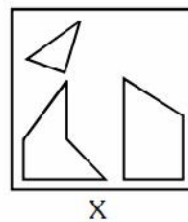
(3) 34

(4) 36

Ans. [2]

Sol. $(7 \times 5) + (6 \times 3) - (4 \times 10) = 13$
 $(9 \times 4) + (8 \times 4) - (7 \times 5) = 33$
 $(8 \times 4) + (5 \times 3) - (6 \times 2) = 35$
 $(6 \times 5) + (10 \times 3) - (7 \times 4) = 32$

14. Find out which of the following figures can be formed from the pieces given in the figure 'X' ?



(1) A

(2) B

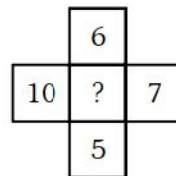
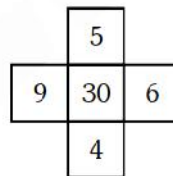
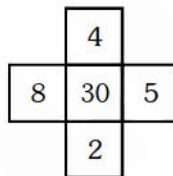
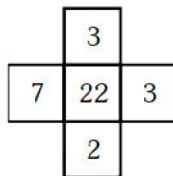
(3) C

(4) D

Ans. [1]

Sol. By observation

15. Find the missing number '?' in the figure given below :



(1) 30

(2) 32

(3) 33

(4) 35

Ans. [4]

Sol. $(10 - 6) - (5 \times 7) = 60 - 35$
 $= 25 + 10$ (fro left) = 35

16. If MOBILE is coded as DFBICE, then CHARGE is coded as :

(1) CHBXQE

(2) CLARTE

(3) CHAIGE

(4) CHIAEF

Ans. [3]

Sol.

$\begin{matrix} 13 & 15 & 2 & 9 & 12 & 5 \\ \text{M} & \text{O} & \text{B} & \text{I} & \text{L} & \text{E} \end{matrix} \xrightarrow{\begin{matrix} (1+3) & (1+5) \\ 4 & 6 \end{matrix}} \begin{matrix} 4 & 6 & 2 & 9 & 3 & 5 \\ \text{D} & \text{F} & \text{B} & \text{I} & \text{C} & \text{E} \end{matrix}$

Similarly.

$\begin{matrix} \text{C} & \text{H} & \text{A} & \text{R} & \text{G} & \text{E} \\ 3 & 8 & 1 & 18 & 7 & 5 \end{matrix} \xrightarrow{(1+8)} \begin{matrix} \text{C} & \text{H} & \text{A} & \text{I} & \text{G} & \text{E} \\ 3 & 8 & 1 & 9 & 7 & 5 \end{matrix}$

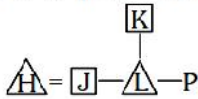
17. Study the following information :
 If 'A\$B' means A is brother of B,
 'A@B' means A is wife of B,
 'A # B' means A is daughter of B and
 A £ B means A is father of B.
 Based on the above information, which of the following alternative represents the correct group of symbols that indicates the relationship for 'K' is father-in-law of H ?

- (1) H@J\$L#PEK (2) H@J\$PE#K (3) H@J\$L#KEP (4) H@P\$JEL#K

Ans. [3]

Sol.

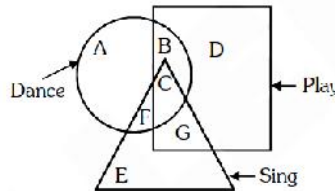
H @ J \$ L # K £ P



∴ K is father-in-law of H.

Direction : (Questions 18-20)

The following figures represent students who can play, sing and dance.



18. Which part of the figures represents students who can sing and dance ?
 (1) F (2) C (3) F and C (4) E and G

Ans. [3]

Sol. By figure common between sing and dance (triangle & circle) = F & C

19. The number of students who can play in more by 'a' than the number of students who can dance; and the number of students who can do both playing and singing is more by 'b' than the number of students who can do both singing and dancing. Then what is the difference of the number of students who can only dance and who can only play ?

- (1) a + b (2) (2a - b) or (b - 2a) (3) (a - 2b) or (2b - a) (4) (a - b) or (b - a)

Ans. [4]

Sol.

Play = (B + C + D + G)

Dance = (A + B + F + C)

Accor. To ques.

(B + C + D + G) = (A + B + F + C) + a

So (D + G) = (A + F) + a

(D + G) = (A + F + a) (1)

Now, play & sing = (C + G)

Sing & dance = (C + F)

Acco. To ques.

(C + G) = (C + F) + b

(G) = (F + b) (2)

Now, only dance = A

Only play = D

Equation (1) - eq. (2)

D + G = A + F + a

- G = F + b

D = A + a - b

So, D - A = a - b or A - D = b - a

20. It is given that the total numbers of students in all the three disciplines are same. Also, sum of the number of students who can only dance, and twice of the number of students who can do both singing and dancing, equals the sum of the students who can do both singing and playing and the students who can do both dancing and playing. Then which among the alternative is a correct statement about the number of students who can only play and those who can only sing ?

- (1) The number of students who can only sing is twice as many as the number of students who can only play
- (2) The number of students who can only sing is equal to the sum of the number of student who can sing and dance and the number of students who can only play and sing.
- (3) The number of students who can only play and sing equals the number of students who can only dance and play.
- (4) The number of students who can only dance equals to the number of students who can only sing.

Ans. [1]

Sol. $a + b + c + f = b + d + c + g = c + f + g + e$

$$\text{By } 1 \ \& \ 2 = a + f = g + d \quad \dots\dots(1)$$

$$2 \ \& \ 3 = b + d = f + e \quad \dots\dots(2)$$

$$1 \ \& \ 3 = a + b = g + e \quad \dots\dots(3)$$

From the statement : $a + 2(c + f) = (c + g) + (b + c)$

$$\Rightarrow a + 2c + 2f = 2c + g + b$$

$$\Rightarrow a + 2f = g + b$$

$$1 \Rightarrow a = g + b - 2f \quad \dots\dots(4)$$

$$\text{From (1), } a = g + d - f \quad \dots\dots(5)$$

By comparing (4) and (5),

$$g + d - f = g + b - 2f$$

$$\Rightarrow d = b - f \quad \text{or} \quad b = d + f$$

By (3) $a + b = g + e$

Putting value b we get $a + b + f = g + e$

$$a + f = g + d, \quad g + d + d = g + e$$

$$\Rightarrow g + d + d = g + e$$

$$\Rightarrow 2d = e$$

21. Complete the following series

1, -8, 81, ?, 15625

$$(1) - 1022$$

$$(2) - 1024$$

$$(3) - 4094$$

$$(4) - 4096$$

Ans. [2]

Sol. 1, -8, ?, 15625

$$+1^1, -(2)^3, + (3)^4 - (4)^4 + (5)^5$$

$$\therefore -(4)^4 \rightarrow -1024$$

22. Yaibiren is standing 4 metres East of Rajib, who is 1 metres North of Achira. If Sahibah is standing 3 metres South of Achira then in which direction of Yabiren is Sahibah ?

(1) North - East

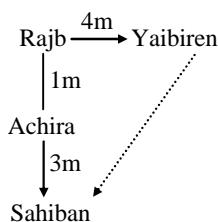
(2) North - West

(3) South-East

(4) South-West

Ans. [4]

Sol.



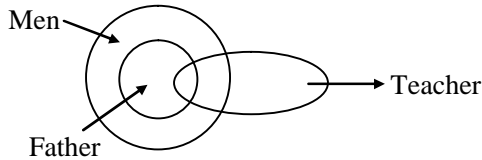
23. Which of the following diagram indicates the best relationship among men, fathers and teachers ?



- (1) A (2) B (3) C (4) D

Ans. [1]

Sol.



24. Ishan wishes Irfan 'Good Morning' When the hour hand of a (measured clockwise) clock is positioned between 9 and 10. The angle between the two hands is 145° . The time shown by the clock is

- (1) 9.08 AM (2) 9.10 AM (3) 9.12 AM (4) 9.15

Ans. [2]

Sol.

Hour hand makes angle $270^\circ + 5^\circ = 275^\circ$
 Minutes hand makes angle = 60°
 So angle formed = $275^\circ - 60^\circ = 215^\circ$
 So angle = $360^\circ - 215^\circ = 145^\circ$

25. If '15 + 10 means 5' ; '6 × 3 means 9' ; '8 ÷ 4 means 32' ; and '12 - 2 means 6' ; then what will be the value of $27 + 81 - 9 \times 6$?

- (1) 36 (2) 24 (3) 12 (4) 6

Ans. [2]

Sol.

Here $15 + 10 = 5$ means $+ \rightarrow -$
 $6 \times 3 = 9$ means $\times \rightarrow +$
 $8 + 4 = 32$ means $+ \rightarrow \times$
 $12 - 2 = 6$ means $- \rightarrow =$
 $27 - 81 \div 9 + 6$
 $\Rightarrow 27 - 9 + 6 \Rightarrow 33 - 9 = 24$

26. Which number will replace the '?' in the following sequence ?

5, 7, 14, 24, 42, ?, 119

- (1) 71 (2) 67 (3) 65 (4) 63

Ans. [1]

Sol.

$5 + 7 + 2 = 14$
 $7 + 14 + 3 = 24$
 $14 + 24 + 4 = 42$
 $24 + 42 + 5 = 71$

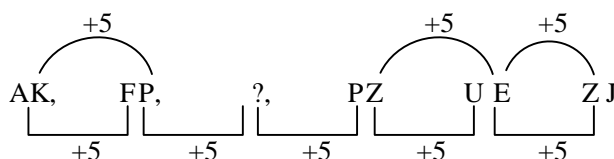
27. What will be the missing term '?' in the given series ?

AK, FP, ? PZ, UE, ZJ

- (1) KU (2) JT (3) JU (4) KV

Ans. [1]

Sol.



28. In a family of four members there is father, mother, son and daughter. When sorted according to decreasing order of their ages, the order is father, mother, son and daughter. The difference between the age of father and mother is 5 years. The difference between total age of male members and female members is 15 years. Also the total age of children is 20 years, then the age of the son is _____
 (1) 10 years (2) 15 years (3) 20 years (4) 25 years

Ans. [2]

Sol. Father (F), Mother (m), Daughter (D), Son (s)

Given $F > M > S > D$

$$F - M = 5 \quad \dots(1)$$

$$(F + S) - (M + D) = 15 \quad \dots(2)$$

$$S + D = 20 \quad \dots(3)$$

On solving (1) and (2)

$$F - M + S - D = 15$$

$$5 + S - D = 15$$

$$S - D = 10 \quad \dots(4)$$

On adding (3) and (4)

$$S + D = 20$$

$$S - D = 10$$

$$2S = 30$$

$$S = 15$$

Age of son is = 15 years

29. If the ninth day of a month is four day earlier than Thursday then what day will it be on the twenty third day of the month ?
 (1) Monday (2) Wednesday (3) Friday (4) Sunday

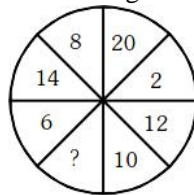
Ans. [4]

Sol. Four days earlier Thursday is Sunday

9th of month falls on Sunday

So, 23rd of same month falls on Sunday

30. Which number replace that question mark '?' in the given figure ?



(1) 4

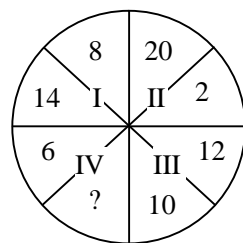
(2) 16

(3) 18

(4) 22

Ans. [2]

Sol. In given figure



$$\text{Quadrant I} = 14 + 8 = 22$$

$$\text{Quadrant II} = 20 + 2 = 22$$

$$\text{Quadrant III} = 12 + 10 = 22$$

$$\text{Quadrant IV} = 6 + ? = 22$$

$$? = 22 - 6 = 16$$

31. Find the missing value '?' in the following series:

13, 34, 74, ?, 290

(1) 168

(2) 170

(3) 172

(4) 174

Ans. [2]

Sol. 13, 34, 74, ?, 290

Using Prime number

$$2^2 + 3^2 = 13$$

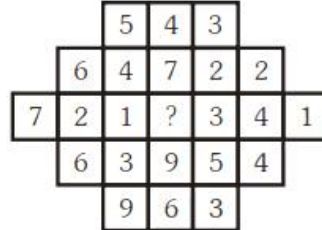
$$3^2 + 5^2 = 34$$

$$5^2 + 7^2 = 74$$

$$7^2 + 11^2 = 170$$

$$11^2 + 13^2 = 290$$

32. What number comes in place of '?' in the given figure?



(1) 9

(2) 8

(3) 7

(4) 6

Ans. [1]

Sol. in given figure middle form is obtained by $\frac{\text{Left term} + \text{right term}}{2}$

$$\frac{5+3}{2} = 4$$

$$\frac{(6+4)+(2+2)}{2} = 7$$

$$\frac{(7+2+1)+(3+4+1)}{2} = 9$$

$$\frac{(6+3)+(5+4)}{2} = 9$$

$$\frac{9+3}{2} = 6$$

33. The following figures represent information given against them.

Total number of students who applied for Board Examination.

Total number of students who actually appeared at Board Examination.

Total number of urban students who appeared at Board Examination

Total number of students who qualified at Board Examination.

Based on the above information which of the following figures represents the above facts?



Ans. [3]

Sol.

(1) All \triangle [Total number of student who actually appeared at Board examination are
[Total number of students whose applied for Board Examination.]

(2) All are \triangle

(3) All \bigcirc are \triangle

(4) Some \bigcirc are

Option 3 follows.

34. Five friends P, Q, R, S and T read a newspaper. The one who reads first gives it to R. The one who reads last had taken it from P. T was neither the first nor the last one to read, There were two readers between Q and P. Who reads the newspaper last?

- (1) P (2) Q (3) R (4) S

Ans. [4]

Reader

1 Q

2 R

3 T

4 P

5 S

Sol.

35. A clock shows 05:45. A plane mirror is kept on the right of the clock, with its plane perpendicular to the face of the clock. What time will be shown by the mirror image ?

- (1) 06 : 45 (2) 05 : 15 (3) 06 : 15 (4) 07 : 15

Ans. [3]

Sol.

Mirror image of 5 : 45

11 : 60

- 5 : 45

6 : 15

36. In a certain code language "Kolkata is cultural hub of India" is coded as " $\alpha 2463\beta$ " and "Mumbai is financial hub of India" is coded as " $\gamma 3472\beta$ ". Then in the same language "India is hub of democracy" may be coded as

- (1) $\alpha 2 4 3 9$ (2) $2 4 3 \gamma 7$ (3) $\beta 3 2 4 9$ (4) $3 2 \beta 4 7$

Ans. [3]

Sol. Comparing first and second line code of "is of hub India" comes as 243 β .

So, in "India is hub of democracy" code is 243 β and new code for democracy will be added.

According to option $\beta 3249$ follows.

37. Which letter is midway between 13th letter from the left and the 4th letter from the right in the sequence given below?

USBEYFHKOPRAWCGJMQDIVLNTXZ

- (1) O (2) Q (3) P (4) M

Ans. [2]

Sol. USBEYFHKOPRAWCGJMQDIVLNTXZ

13th letter from left is W

4th letter from right is N

Middle between W & N is Q

38. Which of the following figure(s) can not be drawn without either lifting the pen or re-tracing any line ?



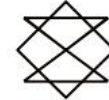
(A)



(B)



(C)



(D)

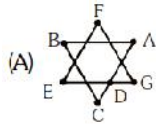
(1) Only A

(2) Both A and B

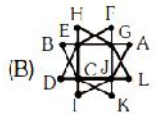
(3) Only C

(4) Both C and D

Ans. [3]
Sol.



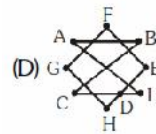
$A \rightarrow B, B \rightarrow C, C \rightarrow D, D \rightarrow E, E \rightarrow F, F \rightarrow G, G \rightarrow D, D \rightarrow A$



$A \rightarrow B \rightarrow C \rightarrow D \rightarrow E \rightarrow F \rightarrow G \rightarrow H$

$H \rightarrow I \rightarrow J \rightarrow K \rightarrow C \rightarrow L \rightarrow G$

$G \rightarrow J \rightarrow A$



$A \rightarrow B \rightarrow C \rightarrow D \rightarrow E \rightarrow F \rightarrow G \rightarrow H \rightarrow D$

$D \rightarrow I \rightarrow A$

A, B and D figures are possible except (C)

39. Find the missing values in place of the question marks in the given pattern.

1	X	5	?	34
	1	3	8	21
Y	2	U	?	H

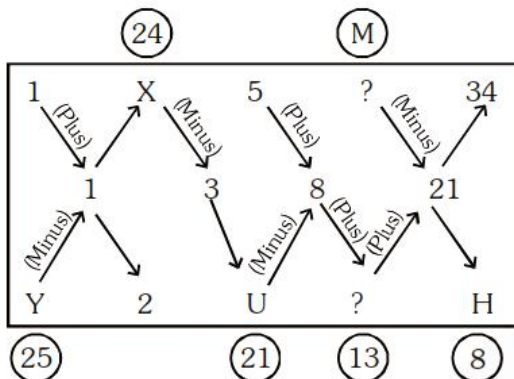
(1) I
13

(2) N
10

(3) M
13

(4) Z
18

Ans. [3]
Sol.



From bottom to top
(Y) $25 - 1 = 24$ (X)
(U) $21 - 8 = 13$ (M)

from top to bottom
 $1 + 1 = 2$
 $24 - 3 = 21$ (U)
 $5 + 8 = 13$
 $21 - 13 = 8$ (H)

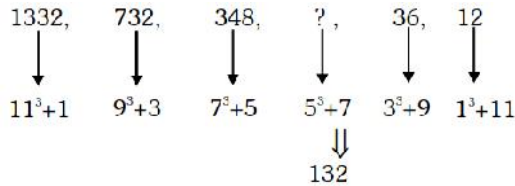
40. What will be the missing number in the given series ?

1332, 732, 348, _____, 36, 12

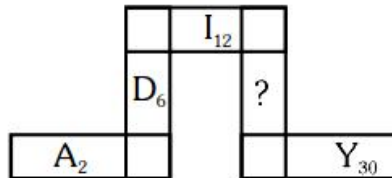
- (1) 32 (2) 132 (3) 148 (4) 216

Ans. [2]

Sol.



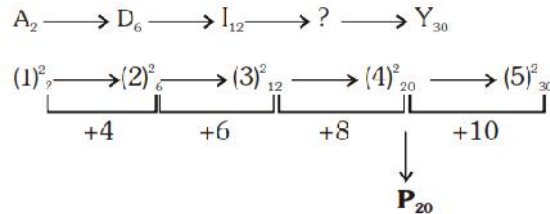
41. Find the missing term '?' in the given figure



- (1) N_{10} (2) P_{20} (3) O_{24} (4) Q_{16}

Ans. [2]

Sol.



42. If, $a > b$, $a > 0$, and $b \neq 0$, then which of the following statements is always true ?

- (1) $a \times b > 0$ (2) $a \times b < 0$ (3) $a \times b$ is undefined (4) $a \times b^2 > 0$

Ans. [4]

Sol.

Given $a > b$, $a > 0$ and $b \neq 0$,
 B can be +ve or - ve
 So, $a \times b^2 > 0$

43. In certain coded language

'way to win' is written as AAaa aaaa AAAa,

'Go to Walk' is written as Aaaa aaaa AAAA,

'Get up early' is written as AaAa AaaA aaAA.

Then how can 'Always go to morning walk early' be written in that code language ?

- (1) aaAA Aaaa aaaa aaaA AAaa aaAA (2) aaAA Aaaa aaaa aaaA AAAA aaAA
 (3) aaAA AaAa aaaa aaaA aaAA AAaa (4) aaaA AaAa aaaa aaAA AAAA aaAA

Ans. [2]

Sol.

By direct coding we get

Always	go	to	morning	walk	early
↓	↓	↓	↓	↓	↓
.....	Aaaa	aaaa	AAAA	aaAA

Now, only option (2) matches the same sequence

$$H = \sqrt{3600 + 6400}$$

$$H = 100 \text{ m}$$

Now, total distance she travelled

$$(60 + 15 + 100)\text{m} = 175 \text{ m}$$

48. A cube is coloured on all the six faces with six different colours – black, brown, green, red, yellow and blue.

- Red face is opposite to the black face.
- Green face is between red and black faces.
- Blue face is adjacent to yellow face.
- Brown face is adjacent to blue face
- Red face is in the bottom.

Which of the following are adjacent to green?

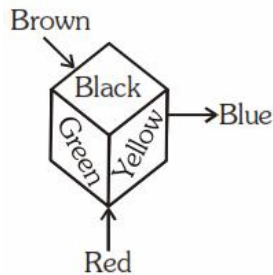
(1) Black, yellow, brown, red

(2) Blue, black, red, yellow

(3) Red, black, blue, yellow

(4) yellow, blue, black, Red

Ans. [1]
Sol.



By observing above cube, adjacent to Green are Black, Yellow, Brown, Red.

49. A watch gains 10 seconds in 3 minutes. It was set right at 9 A.M. In the evening of the same day, when the watch indicates half past 6'O clock , the true time is

(1) 5:30 :00 P.M.

(2) 5:48 :10 P.M.

(3) 5:58 :20 P.M.

(4) 6:08 :20 P.M.

Ans. [3]

Sol. Gains 10 seconds in every 3 minutes clock is run total 9 : 30 Hr
(From 9 : 00 am to 6: 30 pm)
clock gain 1800 Seconds
So the actual time is 30 minutes behind from 6:30PM.
So actual time is 6:00 or 5:58 :20 P.M. (opprox.)

50. Given x is real and that

(A) $x^2 = 49$,

(B) $x^3 = 343$

Examine the given alternatives in respect of arriving at the Conclusion; $x = 7$ and find which is valid

I. Only A is sufficient to answer the question

II. Only B is sufficient to answer the question

III. Either A or B alone is sufficient to answer the question

IV. Both A and B together are sufficient to answer the equation

(1) I

(2) II

(3) III

(4) IV

Ans. [2]

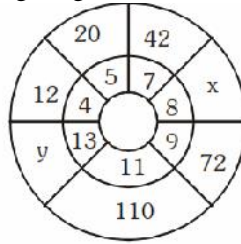
Sol. Given (x is real can be +ve or -ve)

$$x^2 = 49$$

$$\text{Similarly } x^3 = 343$$

Therefore statement (2) only B is sufficient to answer the question

51. Find the values of 'x' and 'y' from the figure given below.



- (1) 65, 150 (2) 46, 125 (3) 56, 156 (4) 56, 165

Ans. [3]

Sol. 4×3 (Previous number) = 12

4×3 (Previous number) = 12

Similarly

$8 \times 7 = 56$ $x = 56$

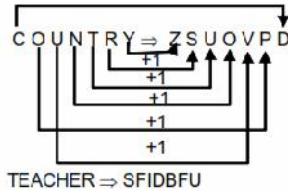
and $13 \times 12 = 156$ $y = 156$

52. In a certain code 'COUNTRY' is written as 'ZSUOVPD'. How is 'TEACHER' written in the same code?

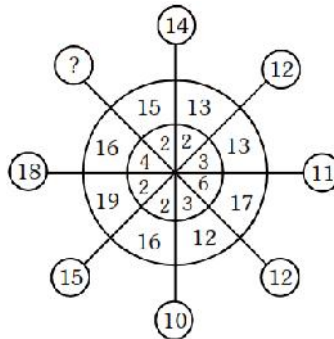
- (1) SUTIFED (2) REHCAET (3) QDGBDS (4) SFIDBFU

Ans. [4]

Sol.



53. What number should replace the question mark?



- (1) 15 (2) 14 (3) 13 (4) 10

Ans. [3]

Sol. $13 - 2 + 1 = 12$

$13 - 3 + 1 = 11$

$17 - 6 + 1 = 12$

$16 - 4 + 1 = 13$

Directions : (Questions 54 -58) : A, B, C, D, E, F and G are seven teachers, Each one teaches only one and different language from among Konkani, Hindi, Malayalam, English, Manipuri, Tamil and Kannada on different days of a week. C teaches Malayalam on Friday. B teaches Konkani on the next day of the day on which the concerned teacher teaches English. F teaches on Thursday but neither teaches Hindi nor English. D teaches Tamil on the previous day on which day F teaches. A teaches Kannada on Tuesday. G teaches on the next day of the day on which the concerned teacher teaches Malayalam. E does not teach English.

Sol. (Q.54 to 58)

- A → Kannada → Tuesday
 B → Konkani → Sunday
 C → Malyalam → Friday
 D → Tamil → Wednesday
 E → Hindi → Monday
 F → Manipuri → Thursday
 G → English → Saturday

54. Which subject does E teach?

- (1) Tamil (2) Hindi (3) Manipuri (4) Malayalam

Ans. [2]

Sol. As explained above

55. On which day B teaches?

- (1) Monday (2) Friday (3) Wednesday (4) Sunday

Ans. [4]

Sol. As explained above

56. Which language does F teach?

- (1) Manipuri (2) Kannada (3) Tamil (4) English

Ans. [1]

Sol. As explained above

57. Which language does G teach?

- (1) Hindi (2) English (3) Kannada (4) Konkani

Ans. [2]

Sol. As explained above

58. On which day D teaches?

- (1) Saturday (2) Tuesday (3) Wednesday (4) Thursday

Ans. [3]

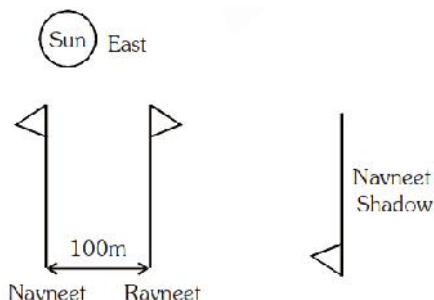
Sol. As explained above

59. One morning at 8 A.M. Navneet and Ravneet were standing on a lawn with their back towards each other at the distance of 100 m. Navneet's shadow fell exactly towards his left and side. After 15 minutes, Ravneet turns 135° anticlockwise. Which direction Ravneet is facing now?

- (1) North-East (2) North-West (3) East (4) South –East

Ans. [1]

Sol.



When Ravneet moves 135° anticlockwise his direction become North-East

60. Find the missing number

2, 3, 7, _____, 2112

- (1) 36 (2) 45 (3) 46 (4) 49

Ans. [3]

Sol. $2^2 - 1$
 $3^2 - 2$
 $7^2 - 3 = 46$
 $46^2 - 4 = 2112$

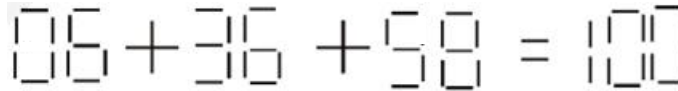
61. In a code BH = 16, DO = 60 and TA = 20, then the code for BAT = ?

- (1) 20 (2) 30 (3) 40 (4) 60

Ans. [3]

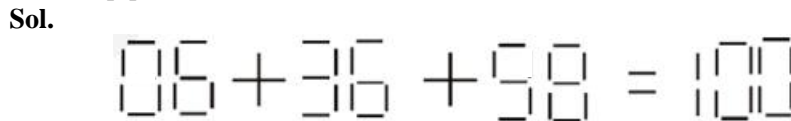
Sol. BH = 16
 $2 \times 8 = 16$
 DO = 60
 $4 \times 15 = 60$
 TA = 20
 20×1
 Similarly
 BAT = 40
 $2 \times 1 \times 20 = 40$

62. The figure given below is prepared by some sticks and provides an equation that is incorrect. How many minimum numbers of sticks must be removed from the left hand side to make it a correct equation?



- (1) 1 (2) 2 (3) 3 (4) 4

Ans. [2]



$$26 + 36 + 38 = 100$$

We have remove 2 stick to satisfy condition

63. If 63578 is to 1415,

56732 is to 185,

and 34124 is to 86,

then, 72648 is to ?

- (1) 1215 (2) 1415 (3) 1512 (4) 1514

Ans. [3]

Sol.

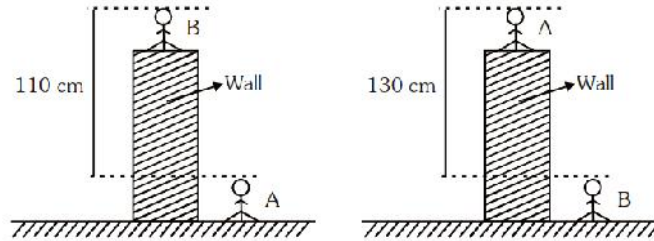
63578 is to 1415
 $\underline{6 + 3 + 5} = 14$
 $7 + 8 = 15$

56732 is to 185
 $5 + 6 + 7 = 18$
 $3 + 2 = 5$

34124 is to 86
 $3 + 4 + 1 = 8$
 $2 + 4 = 6$

So 72648 is to 1512
 $\underline{7 + 2 + 6} = 15$
 $4 + 8 = 12$

64. Two friends Mr. A and B stand according to figure (1) The two friends then interchange their positions as given in figure (2)



The height of the wall from the ground is _____ .

- (1) 115 cm (2) 120 cm (3) 127.5 cm (4) 130 cm

Ans. [2]

Sol.

Let's the height wall is = X

Length of B is Y

Length of A is Z

So according to figure-1

$$X - Z + Y = 110 \quad \dots(1)$$

From figure-2

$$X - Y + Z = 130 \quad \dots (2)$$

From equation (1) & (2) we get

$$2X = 240$$

$$X = 120$$

65. In a certain coding scheme, consonants and vowels are coded differently as illustrated below :

C is coded as 6.

Z is coded as 52.

E is coded as 9.

O is coded as 29.

Then find the sum of numerals in the coded version of FAITH.

- (1) 84 (2) 85 (3) 86 (4) 87

Ans. [3]

Sol.

F A I T H

$$F = 6 \times 2 = 12$$

$$A = 1 \times 2 - 1 = 1 \quad (\because A \text{ is vowel})$$

$$I = 9 \times 2 - 1 = 17 \quad (\because I \text{ is vowel})$$

$$T = 20 \times 2 = 40$$

$$H = 8 \times 2 = 16$$

$$\text{So, } 12 + 1 + 17 + 40 + 16 = 86$$

66. In a class 20% of students are below 14 years of age. Out of the remaining students 10% are of the age 14-15 years and ratio of students who are between 15-16 years of age to student above 16 years of age is 3 : 2. If the number of students who are above 16 years is 72, what is the total number of students in the class?

- (1) 200 (2) 250 (3) 300 (4) 400

Ans. [2]

Sol.

Let total no. of students in class = 'x'

Age	No. of students
below 14	20% of x = $\frac{x}{5}$
14 - 15	10% of $\frac{4x}{5} = \frac{2x}{5}$
15 - 16	3k = 108
16 & above	72 = 2k \Rightarrow k = 36

A.T.Q.

$$\frac{x}{5} + \frac{2x}{25} + 108 + 72 = x$$

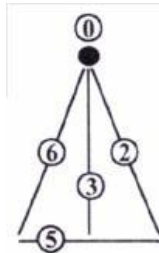
$$180 = x - \frac{x}{5} - \frac{2x}{25}$$

$$180 = \frac{25x - 5x - 2x}{25}$$

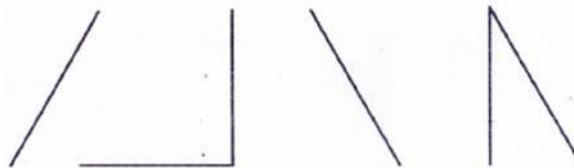
$$180 = \frac{18x}{25}$$

$$x = 250$$

67. Study the figure given below representing a particular number in coded manner.



For example, the number 6825 coded by the following symbols-



Based on the above information find the number coded for the following symbols.



(1) 63205

(2) 11309

(3) 11523

(4) 65230

Ans. [2]

Sol. By observation

68. Five friends decided to play a game of badminton. Each of the five plays against every other friend. The winner gets two points for each game he or she wins and the loser gets zero. Then which of the following cannot represent the scores of five friends?

(1) 4, 4, 4, 4, 4

(2) 6, 4, 4, 4, 2

(3) 8, 8, 2, 2, 0

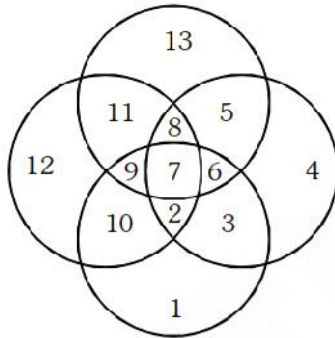
(4) 6, 6, 4, 2, 2

Ans. [3]

Sol. Simply if one is won all 4 games which are maximum then no other will play & win 4 games that why 8 points can't be repeated.

8, 8, 2, 2, 0

69. Study the given figure and answer the following question.



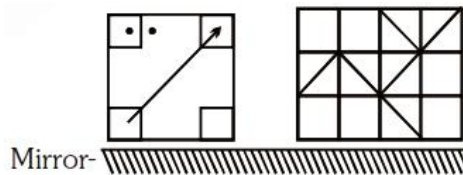
Let x denote sum of numbers present in at least 2 circles and y denote sum of numbers present in exactly 3 circles. Then $x - y = \underline{\hspace{2cm}}$.

- (1) 11 (2) 25 (3) 36 (4) 61

Ans. [3]

Sol. x (sum of number present in at least 2 circles) = $11 + 5 + 3 + 10 + 9 + 8 + 6 + 2 + 7 = 61$
 y (sum of number present in exactly 3 circles) = $9 + 8 + 6 + 2 = 25$
 So $x - y = 61 - 25 = 36$

70. Choose the correct mirror image of the following figure. If the mirror is placed as shown.

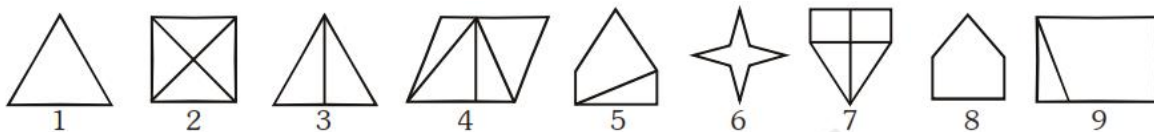


- (1) (2) (3) (4)

Ans. [1]

Sol. By observation

71. Observe the figures given below :



Based on the above figures identify the correct group of categorization ?

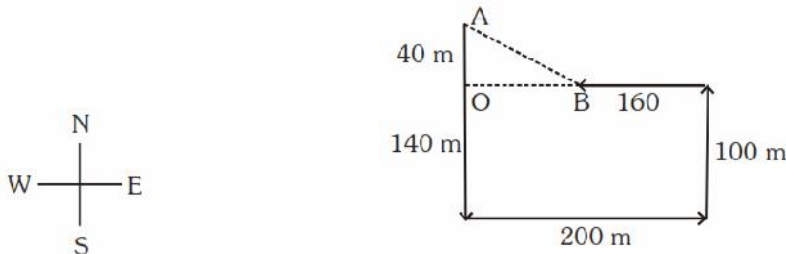
- (1) 1, 3, 6; 2, 4, 9; 5, 7, 8 (2) 1, 2, 3; 4, 5, 8; 6, 7, 9
 (3) 1, 6, 8; 3, 5, 9; 2, 4, 7 (4) 1, 3, 6; 2, 5, 7; 4, 8, 9

Ans. [3]

Sol. 1,6,8 are figures that have pattern having no diagonal
 3,5,9 are figures that have pattern having one diagonal
 2,4,7 are figures that have pattern having four partitions

72. Raju invited friend George for a dinner at his house. When George asked for the direction of Raju's house, Raju gave him the following instruction :
 Proceed 140 metres south from your house then walk 200 metres to east. Then turn to north and walk 100 metres. After that, walk 160 metres to west.
 What is the shortest distance between the two houses and the direction to Raju's house from George's house?
 (1) $40\sqrt{2}$ metres and north-west (2) $40\sqrt{2}$ metres and south-east
 (3) 80 metres and south-east (4) 80 metres and north-west

Ans. [2]
 Sol.



$$\begin{aligned} \text{In } \triangle OAB \Rightarrow AB &= \sqrt{OA^2 + OB^2} \\ &= \sqrt{40^2 + 40^2} \\ &= 40\sqrt{2} \text{ meters and south-east} \end{aligned}$$

73. In a code language if 'APPEAL' is coded as '256572' and 'PLAY' is coded as '7259' then in the same language 'PEARL' will be coded as (each number code stands for unique alphabet) _____ .
 (1) 2 5 7 6 8 (2) 2 5 3 8 7 (3) 6 7 5 2 2 (4) 2 5 6 7 9

Ans. [1]
 Sol. APPEAL \Rightarrow 256572 & PLAY \Rightarrow 7259
 A/P \Rightarrow 2/5 (By Direct Coding) & for L \Rightarrow 7
 Y \Rightarrow 9
 E \Rightarrow 6
 So for P E A R L
 2, 5, 6 & 7 are confirm but for R one more number is appear.
 So according to options, option (1) is correct.

Directions: (Questions 74- 76)

- Five students Ujith, Mahi, Rizan, Sahir and Amelia appeared for an examination in English and Mathematics.
 I. Sahir scored more marks than Amelia in Mathematics but scored less in English than Ujith and Mahi.
 II. In Mathematics Rizan scored more marks than Amelia but less than what Mahi has scored.
 III. Amelia scored more than Rizan and Rizan scored more than Mahi in English.
 IV. Ujith scored more than Mahi in Mathematics but less than Rizan in English.
 V. Sahir scored less than Mahi in Mathematics.

74. The least scorer in Mathematics and top scorer in English are respectively
 (1) Sahir and Ujith (2) Amelia and Amelia (3) Ujith and Sahir (4) Ujith and Ujith

Ans. [2]
 Sol. According to ques.

Mathematics	English
Sahir > Amelia	Ujith, Mahi > Sahir
Ujith > Mahi > Rizan > Amelia	Amelia > Rizan > Mahi
Mahi > Sahir	Rizan > Ujith
Ujith > Mahi > Sahir, Rizan > Amelia	Amelia > Rizan > Ujith, Mahi > Sahir

So least marks in mathematics = Amelia
 Highest marks in English = Amelia

75. Which of the following cannot be determined ?
 (1) Amelia scored more than Mahi in English.
 (2) Mahi scored more than Amelia in Mathematics.
 (3) Sahir scored less than Mahi both in Mathematics and English.
 (4) Ujith scored less than Mahi in English.

Ans. [4]

Sol. In the ques. It is not clear about the Mahi & Ujith marks relation in English.

76. Which of the following is necessarily correct ?
 (1) Rizan scored more than Sahir in Mathematics
 (2) Ujith scored more than Sahir both in Mathematics and English.
 (3) Sahir scored more than Ujith in Mathematics.
 (4) Rizan scored more than Ujith both in English and Mathematics.

Ans. [2]

Sol. **Mathematica** **English**
 Mahi > Sahir Ujith > Sahir
 Ujith > Mahi
 So Ujith scored more marks in Mathematics & English than sahir

77. The third day before 1st January 2019 was Saturday. Which day will the fourth day of March 2020 be ?
 (1) Friday (2) Saturday (3) Wednesday (4) Thursday

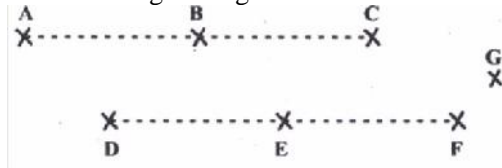
Ans. [3]

Sol. Third day before first Jan, 2019 = Saturday
 So on 1st Jan 2019 = Tuesday
 In 2019 remaining days = 364 days (multiple of 7)
 So on 31st Dec, 2019 = Tuesday
 In 2020, Jan = 31 days
 Feb = 29 days
 Mar = 04 days

64 days

64 days = 63 + 1 (multiple of 7 + 1), so 63rd day will be = Tuesday
 So 64th day (March 4th) = Wednesday

78. Observe the given figure below



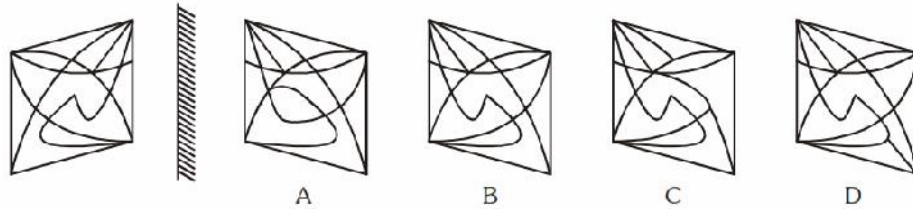
Based on the figure how many maximum numbers of triangles can be formed with the seven points A, B, C, D, E, F and G ?

- (1) 21 (2) 24 (3) 33 (4) 36

Ans. [3]

Sol. G with BC, AB, AC = 3 triangles
 G with DE, EF, DF = 3 triangles
 G with AF, BF, GF = 3 triangles
 G with AE, BE, CE = 3 triangles
 G with AD, BD, CD = 3 triangles
 D with AB, BC, AC = 3 triangles
 E with AB, BC, AC = 3 triangles
 F with AB, BC, AC = 3 triangles
 A with DE, EF, DF = 3 triangles
 B with DE, EF, DF = 3 triangles
 C with DE, EF, DF = 3 triangles
 = 33 triangles

79. Find the correct mirror image for the following problem figure from the alternatives.

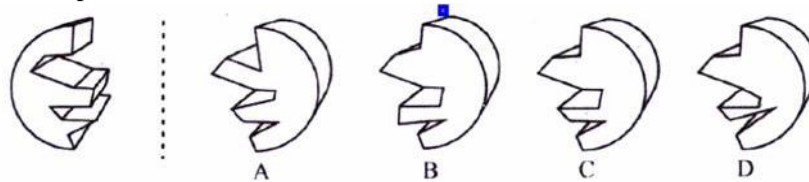


- (1) A (2) B (3) C (4) D

Ans. [2]

Sol. By observation

80. A circular disc is cut into two parts. One of the part is given as the question figure. Which is the other part? Select from the options.

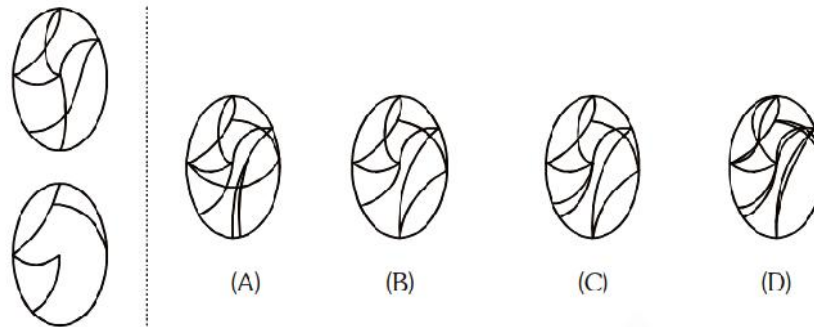


- (1) A (2) B (3) C (4) D

Ans. [3]

Sol. By observation

81. Two figure on transparent sheets are given on the left side. When the upper figure is exactly placed on the lower figure, find from the option figures how the resultant looks like.

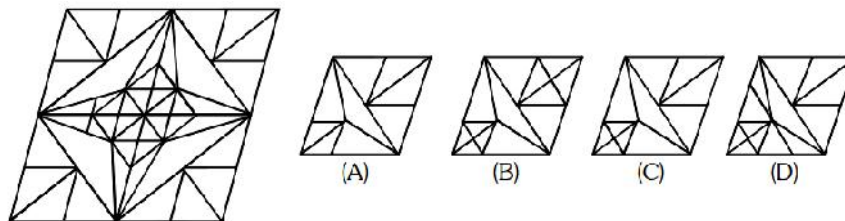


- (1) A (2) B (3) C (4) D

Ans. [4]

Sol. By observation

82. Find the missing part of the given figure from the alternatives which completes the pattern.

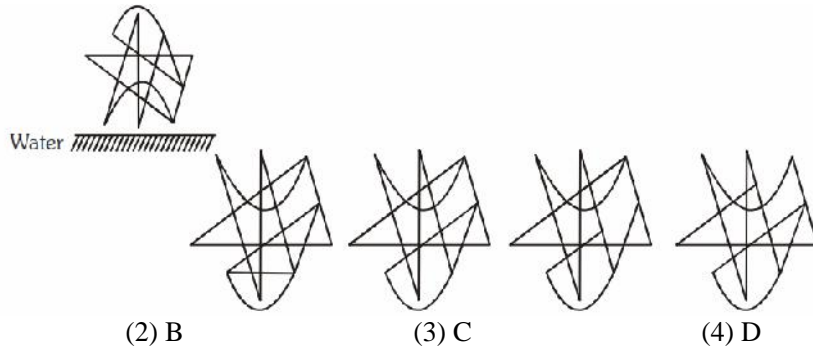


- (1) A (2) B (3) C (4) D

Ans. [3]

Sol. By observation

83 Find the correct water image for the following problem figure choosing from the alternatives.



(1) A
Ans. [2]
Sol. By observation

Directions : (Questions 84-88)

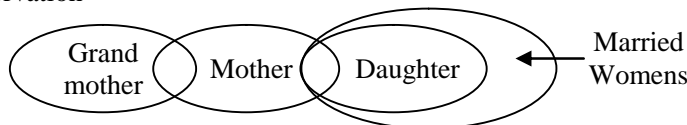
In the following questions, there are statements followed by conclusions. Choose the conclusion(s). which must logically follow from the given statements.

84. **Statements :**
 A. Some grandmothers are mothers.
 B. Some mothers are daughters.
 C. All the daughters are married women.

Conclusions :
 I. Some married women are mothers.
 II. Some daughters are grandmothers.
 III. No daughter is grandmother.
 IV. Some mothers are grandmothers.

(1) Only I and II (2) Only II and III (3) Only II and IV (4) Only I and IV

Ans. [4]
Sol. By observation



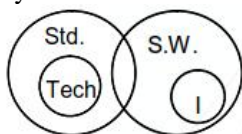
(1) Some married women are mother.
 (4) Some mothers are grand mother.

85. **Statements :**
 A. Some students are smart-working.
 B. All intelligent are smart-working.
 C. All the teachers are students.

Conclusions :
 I. Some students are intelligent.
 II. No teacher is smart-working.
 III. Some intelligent are students.

(1) Either I or II (2) Only I and II (3) None of I, II and III (4) Only I and III

Ans. [3]
Sol. By observation



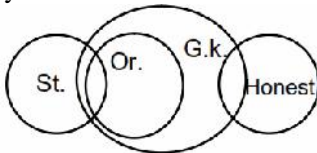
86. **Statements :**
 A. Some students are orators.
 B. All orators are goalkeepers.
 C. Some goalkeepers are honest.

Conclusions :
 I. Some students are honest.
 II. Some goalkeepers are students

- (1) Only conclusion I (2) Only conclusion II
 (3) Both conclusion I and II (4) Neither conclusion I nor II

Ans. [2]

Sol. By observation



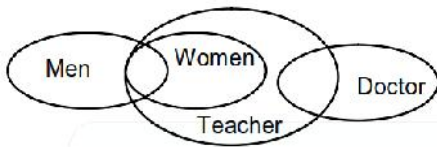
87. **Statements :**
 A. Some men are women.
 B. All women are teachers.
 C. Some teachers are doctors.

Conclusions :
 I. Some doctors are women.
 II. Some teachers are women.
 III. Some teachers are men.
 IV. Some doctors are men.

- (1) Only I and II (2) Only I and IV (3) Only II and III (4) Only III and IV

Ans. [3]

Sol. By observation



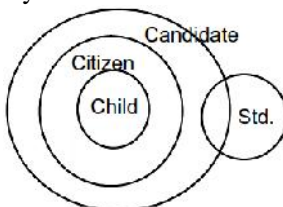
88. **Statements :**
 A. Some candidates are students.
 B. All children are citizens.
 C. all citizens are candidates.

Conclusions :
 I. Some citizens are students.
 II. Some candidates are children.
 III. All children are candidates.
 IV. No child is student.

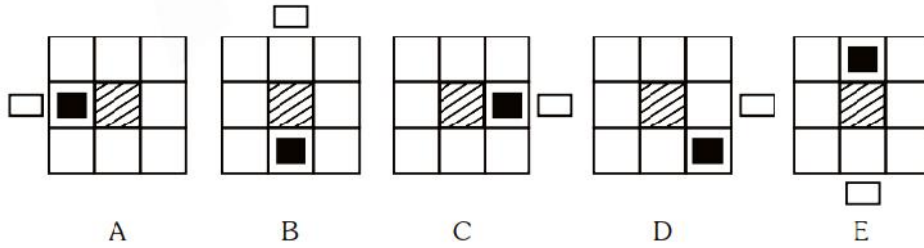
- (1) Only I and II (2) Only II and III (3) Only III and IV (4) Only I, II and III

Ans. [2]

Sol. By observation



89. Study the figure given below :



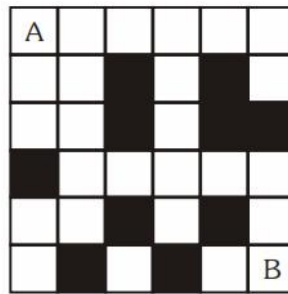
Find which figure is to be removed, starting from A, so that all fit into a pattern.

- (1) B (2) C (3) D (4) E

Ans. [3]

Sol. By observation

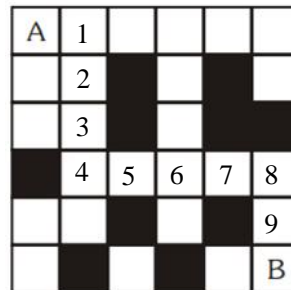
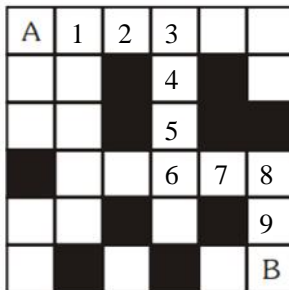
90. What is the minimum number of un-shaded boxes to be crossed for covering the shortest path from 'A' to 'B' (both exclusive) without retracting the path and without diagonal movements ?



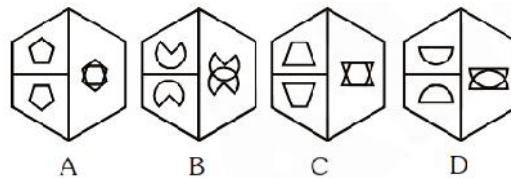
- (1) 8 (2) 9 (3) 10 (4) 11

Ans. [2]

Sol. There are two shortest path of unshaded boxes = 9



91. Observe the figure given below :



The odd one out from the given figure is _____ .

- (1) A (2) B (3) C (4) D

Ans. [2]

Sol. By observation

92. A river flows along the East-West direction. On a particular day in the morning Kisku was seen at a place 'A' located on the northern side of the river and on the same evening he was seen at a place 'B' located on the southern side of the river.

Following are the comments made by four friends. Paulomi, Mimee, Sabeena and Grayson.

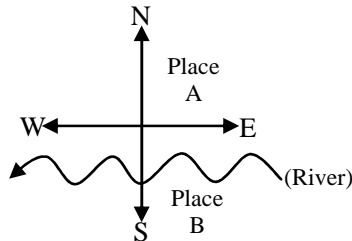
- I. Paulomi said, Kisku must have crossed the river only once.
- II. Sabeena said, Kisku might have crossed the river four times.
- III. Mimee said, he might have crossed it five times.
- IV. Grayson said, he might have crossed it any number of times.

Choose the correct alternative from the following ;

- (1) Only I is correct
- (2) Only II is correct
- (3) I or II is correct
- (4) I and II are correct

Ans. [3]

Sol.



So when Kisku cross the river odd number of times than he will be at place B

Directions : (Question 93-94)

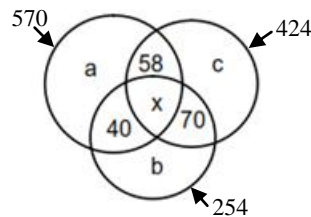
In a town of 1000 people, 570 read Hindi newspaper, 424 read English newspaper and 254 read Punjabi newspaper. 40 read only Hindi and Punjabi newspaper; 58 read only Hindi and English newspaper; and 70 read only Punjabi and English newspaper. 100 read no newspaper.

93. How many people read only one newspaper ?

- (1) 570
- (2) 642
- (3) 914
- (4) 968

Ans. [2]

Sol.



$$(570 + 424 + 254) - (58 + 40 + 70 - 2x) = 900$$

$$x = 90$$

$$\text{so only Hindi} = 570 - (90 + 40 + 58) = 382$$

$$\text{So only English} = 424 - (90 + 70 + 58) = 206$$

$$\text{So only Punjabi} = 254 - (90 + 40 + 70) = 54$$

$$\text{So only Hindi, English \& Punjabi} = 382 + 206 + 54 = 642$$

94. How many people read all the three newspapers ?

- (1) 40
- (2) 58
- (3) 70
- (4) 90

Ans. [4]

Sol. Value of x = 90, by above solution

95. Complete the given letter analogy.

LTFQIW : YGSJVD :: DOIYKV : ?

- (1) QBVIXL
- (2) WLRBCI
- (3) QLVBXE
- (4) QBVLXJ

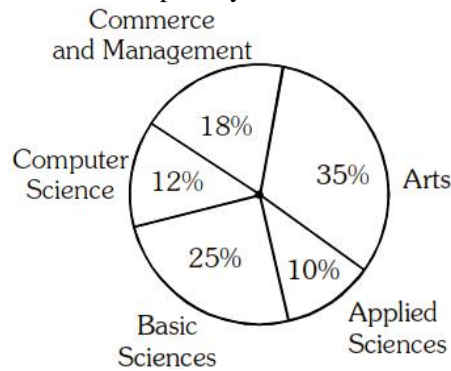
Ans. [3]

Sol.

12	20	6	17	9	23
L	T	F	Q	I	W
+13		+13		+13	
Y	G	S	I	V	D
25	7	19	10	22	4

4					
D	O	I	Y	K	V
+13	↓	+13	↓	+13	↓
Q	L	V	B	X	E
17					

96. The given pie-diagram shows the streams opted by students at senior-secondary level.



If sum of the angles for the students who opted different streams is 144° then the streams are _____.

- (1) Arts, Applied Sciences
- (2) Basic Sciences, Computer Science
- (3) Basic Science, Commerce and Management
- (4) Applied Sciences, Computer Science, Commerce and Management

Ans. [4]

Sol. $\frac{10}{100} \times 360^\circ = 36^\circ \dots(1)$

$\frac{12}{100} \times 360^\circ = 43.2^\circ \dots(2)$

$\frac{18}{100} \times 360^\circ = 64.8^\circ \dots(3)$

By adding (1), (2) & (3) = 144°

97. Four relation have been given as alternatives (p), (q), (r), (s). out of which only one becomes acceptable if the signs, + and \div and the numbers, 4 and 5 are mutually interchanged. Identify that relation.

(p) $24 + 8 \times 4 = 20 \div 5$

(q) $20 \div 4 \times 16 + 5 = 75$

(r) $3 \times 24 + 5 = 16 \div 4$

(s) $20 \div 5 - 6 = 3 \times 30 + 4$

- (1) (p) (2) (q) (3) (r) (4) (s)

Ans. [4]

Sol. $20 + 4 - 6 = 3 \times 30 \div 5$

$24 - 6 = 3 \times 6$

$18 = 18$

98. There are 20 steps to go to the first floor of a building from the ground floor. A child starts climbing up from the first step of the ground level. Mother starts coming down from the fourth step from the floor level of the first floor. If both have started at the same time with same speed, at which step would they meet counting from the first step from the floor level of the first floor?
 (1) 9 (2) 10 (3) 11 (4) 12

Ans. [4]
 Sol.

Mother	Son
17	1
16	2
15	3
14	4
13	5
12	6
11	7
10	8
9	9

then from 1st floor they meet 12th step.
 (first floor starts from 20th so from 20th to 9th = 12 steps)

99. The following question consists of four problem figures marked as A,B,C and D. Select a figure in place of '?' for E which will continue the series established by the four problem figures, A,B,C,D.

+	+
-	×

A

-	+
×	+

B

×	÷
+	-

C

+	÷
-	×

D

?

-	+
×	+

(1)

×	÷
-	+

(2)

×	÷
+	-

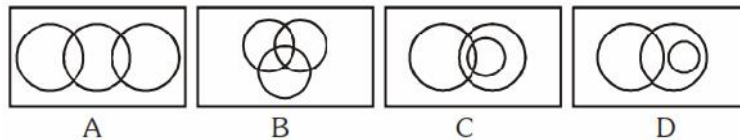
(3)

-	÷
×	+

(4)

Ans. [4]
 Sol. By observation

100. Which one of the following venn diagrams represents the relation among men, doctors and patients in a hospital?



- (1) A (2) B (3) C (4) D

Ans. [2]
 Sol.

