



**SBI Clerk 22 May 2016**

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**Instructions**

For the following questions answer them individually

**Question 1**

A shopkeeper bought two units of an article at the same price. He sold one unit at a profit of 30%. If on selling the second unit, he incurred a loss which was one-third of the profit earned on the first unit, what was his overall profit percent ?

- A 16%
- B 12%
- C 8%
- D 5%
- E 10%

**Answer: E**

**Explanation:**

Let cost price of each unit = Rs.  $100x$

=> C.P. of both units =  $2 \times 100x = 200x$

Profit % on 1st unit = 30%

=> S.P. of one unit =  $\frac{130}{100} \times 100x = 130x$

=> Profit earned on first unit = Rs.  $(130x - 100x) = 30x$

Now, loss incurred is one-third of the profit

=> Loss incurred on second unit = Rs.  $\frac{30x}{3} = 10x$

=> S.P. of second unit = Rs.  $(100x - 10x) = 90x$

Thus, total S.P. of both units =  $130x + 90x = 220x$

∴ Overall profit % =  $\frac{220x - 200x}{200x} \times 100$

=  $\frac{20}{2} = 10\%$

## SBI Clerk Free Mock Test (Latest Pattern)

**Instructions**

What will come in place of question mark (?) in the given questions ?

**Question 2**

$$\left(\sqrt{\frac{324}{9}} \times 1.5\right)^2 = ?$$

- A 18
- B 36
- C 3
- D 81
- E 9

**Answer: D**

**Explanation:**

$$\text{Expression : } (\sqrt{\frac{324}{9}} \times 1.5)^2 = ?$$

$$= \left(\frac{18}{3} \times 1.5\right)^2$$

$$= (6 \times 1.5)^2$$

$$= (9)^2 = 81$$

**Question 3**

$$20\% \text{ of } 270 - 6 = ?^2$$

A 18

B 9

C  $4\sqrt{3}$

D 3

E 2

**Answer: C**

**Explanation:**

$$\text{Expression : } 20\% \text{ of } 270 - 6 = ?^2$$

$$\Rightarrow \left(\frac{20}{100} \times 270\right) - 6 = (x)^2$$

$$\Rightarrow 54 - 6 = (x)^2$$

$$\Rightarrow x = \sqrt{48} = 4\sqrt{3}$$

**Question 4**

$$\left(\frac{2}{3} + 1\frac{1}{5}\right) \times 3 = ?$$

A  $3\frac{1}{2}$

B  $5\frac{3}{5}$

C  $1\frac{2}{3}$

D  $3\frac{2}{3}$

E  $1\frac{1}{6}$

**Answer: B**

**Explanation:**

$$\text{Expression : } \left(\frac{2}{3} + 1\frac{1}{5}\right) \times 3 = ?$$

$$= \left(\frac{2}{3} + \frac{6}{5}\right) \times 3$$

$$= \left(\frac{10+18}{15}\right) \times 3$$

$$= \frac{28}{15} \times 3$$

$$= \frac{28}{5} = 5\frac{3}{5}$$

**Question 5**

$$? \times 25 = 10^4 - 3600$$

- A 214
- B 298
- C 222
- D 284
- E 256

**Answer: E**

**Explanation:**

Expression :  $? \times 25 = 10^4 - 3600$

$$\Rightarrow x \times 25 = 10000 - 3600$$

$$\Rightarrow 25x = 6400$$

$$\Rightarrow x = \frac{6400}{25} = 256$$

**Question 6**

$$(36 \div \sqrt{18} \times \sqrt{6}) \div 3 = ?$$

- A  $6\sqrt{3}$
- B  $6\sqrt{2}$
- C  $4\sqrt{3}$
- D  $\frac{4}{\sqrt{2}}$
- E  $\frac{4}{\sqrt{3}}$

**Answer: C**

**Explanation:**

Expression :  $(36 \div \sqrt{18} \times \sqrt{6}) \div 3 = ?$

$$= \frac{36}{3\sqrt{2}} \times \sqrt{6} \div 3$$

$$= \frac{12\sqrt{3}}{3}$$

$$= 4\sqrt{3}$$

**Question 7**

$$? - \sqrt{9} - \sqrt{64} = 24$$

- A 35
- B 30
- C 45
- D 44
- E 36

Answer: A

Explanation:

$$\text{Expression : } x - \sqrt{9} - \sqrt{64} = 24$$

$$\Rightarrow x - 3 - 8 = 24$$

$$\Rightarrow x - 11 = 24$$

$$\Rightarrow x = 24 + 11 = 35$$

## Free Banking Study Material (15,000 Solved Questions)

Question 8

$$3\frac{1}{8} + 2\frac{5}{24} = ?$$

A  $6\frac{1}{3}$

B  $5\frac{1}{3}$

C  $6\frac{1}{8}$

D  $5\frac{3}{4}$

E  $6\frac{3}{8}$

Answer: B

Explanation:

$$\text{Expression : } 3\frac{1}{8} + 2\frac{5}{24} = ?$$

$$= (3 + 2) + \left(\frac{1}{8} + \frac{5}{24}\right)$$

$$= 5 + \frac{8}{24}$$

$$= 5 + \frac{1}{3} = 5\frac{1}{3}$$

Question 9

$$3.7 \times 24 \div 5 = ? \div 3.3$$

A 58.6

B 64.2

C 56.9

D 55.1

E 61.5

Answer: A

Explanation:

$$\text{Expression : } 3.7 \times 24 \div 5 = ? \div 3.3$$

$$\Rightarrow 3.7 \times 4.8 = \frac{x}{3.3}$$

$$\Rightarrow 17.76 = \frac{x}{3.3}$$

$$\Rightarrow x = 17.76 \times 3.3 = 58.6$$

**Question 10**

?% of  $(140 \div 6) = 7$

- A 20
- B 60
- C 15
- D 25
- E 30

**Answer:** E

**Explanation:**

Expression : ?% of  $(140 \div 6) = 7$

$$\Rightarrow 100 \times \frac{x}{100} \times \frac{140}{6} = 7$$

$$\Rightarrow 10 \times \frac{x}{3} = 7$$

$$\Rightarrow x = \frac{7 \times 3 \times 10}{7}$$

$$\Rightarrow x = 30$$

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**Instructions**

For the following questions answer them individually

**Question 11**

A boat travels from A to B upstream and then from B to C downstream taking the same time. The respective ratio between the distance from A to B and the distance from B to C is 5 : 7. If the boat takes 2 hours 30 min to travel a distance of 35 km downstream, what is the speed of the stream ? (in km/h)

- A 2 km/h
- B 1.5 km/h
- C 2.5 km/h
- D 2.2 km/h
- E None of these

**Answer:** A

**Explanation:**

Let distance between AB =  $5x$  and BC =  $7x$

$$\text{Downstream speed} = \frac{35}{2.5} = 14 \text{ km/h}$$

Let upstream speed =  $y$  km/h

$$\text{Now, } \text{time} = \frac{\text{distance}}{\text{speed}}$$

$$\Rightarrow \frac{5x}{y} = \frac{7x}{14}$$

$$\Rightarrow y = 5$$

$$\Rightarrow y = 5 \times 2 = 10 \text{ km/h}$$

Now, speed of stream =  $\frac{1}{2}$  (downstream - upstream)

$$= \frac{1}{2}(14 - 10)$$

$$= \frac{4}{2} = 2 \text{ km/h}$$

#### Question 12

In a village, only 63% of the registered voters could cast their votes and none of the votes cast were invalid. Only two candidates were contesting the election and the respective ratio of the votes received by them is 4 : 5. If the winning candidate received 1120 votes, what is the number of registered voters in the village ?

A 3200

B 3400

C 3600

D 3160

E 2800

**Answer: A**

#### Explanation:

Let the number of registered voters in the village =  $100x$

$$\Rightarrow \text{No. of voters who cast their votes} = \frac{63}{100} \times 100x = 63x$$

Let no. of votes received by winning candidate =  $5y$

$\Rightarrow$  No. of votes received by losing candidate =  $4y$

Acc to ques,

$$\Rightarrow 5y = 1120$$

$$\Rightarrow y = \frac{1120}{5} = 224$$

$$\Rightarrow \text{Total votes} = 5y + 4y = 9y$$

$$= 9 \times 224 = 2016$$

Now, total casted votes =  $63x = 2016$

$$\Rightarrow x = \frac{2016}{63} = 32$$

$\therefore$  Number of registered voters =  $32 * 100 = 3200$

#### Question 13

A is four times efficient as B. B started the work and after 6 days, A joined him. If the whole work was completed in 12 days, in how many days A alone can finish the whole piece of work ?

A 10

B 9

C 8

D 12

E 6

**Answer: B**

#### Explanation:

Let work = 1 units

Let time taken by A to complete the work =  $x$  days

=> Time taken by B =  $4x$  days

Acc to ques,

$$\Rightarrow \frac{12}{4x} + \frac{6}{x} = 1$$

$$\Rightarrow \frac{6}{x} \left( \frac{1}{2} + 1 \right) = 1$$

$$\Rightarrow \frac{3}{2} = \frac{x}{6}$$

$$\Rightarrow x = \frac{3}{2} \times 6$$

$$\Rightarrow x = 9 \text{ days}$$

#### Question 14

The interest earned by investing a sum of money in scheme A for two years is 450/- more than the interest earned when the same sum is invested in scheme B for the, same period. If schemes A and B both offer compound interest (compounded annually) at 30% p.a. and 20% p.a. respectively, what was the sum invested in each scheme ?

A 3,600/-

B 1,800/-

C 1,600/-

D 2,200/-

E 1,200/-

**Answer: B**

**Explanation:**

Let the amount invested in each scheme = Rs.  $P$

$$\text{Scheme A : } C.I. = P \left[ \left( 1 + \frac{R}{100} \right)^T - 1 \right]$$

$$= P \left[ \left( 1 + \frac{30}{100} \right)^2 - 1 \right]$$

$$= P \left[ \left( \frac{13}{10} \right)^2 - 1 \right] = P \left[ \left( \frac{169}{100} \right) - 1 \right]$$

$$= \frac{69P}{100}$$

$$\text{Scheme B : } C.I. = P \left[ \left( 1 + \frac{20}{100} \right)^2 - 1 \right]$$

$$= P \left[ \left( \frac{12}{10} \right)^2 - 1 \right] = P \left[ \left( \frac{144}{100} \right) - 1 \right]$$

$$= \frac{44P}{100}$$

Acc to ques,

$$\Rightarrow \left( \frac{69P}{100} \right) - \left( \frac{44P}{100} \right) = 450$$

$$\Rightarrow \frac{25P}{100} = 450$$

$$\Rightarrow P = 450 \times 4 = \text{Rs. } 1,800$$

#### Question 15

From his monthly salary, Shyam invests 15% in a scheme, 25% he pays as EMI towards a loan and 40% he keeps aside for his monthly expenses. If the remaining Z 4,800/- he keeps in his bank account, what is his monthly salary ?

A 32,000/-

B 40,000/-



- C 24,000/-
- D 36,000/
- E 29,000/-

**Answer: C**

**Explanation:**

Let Shyam's monthly salary = Rs.  $100x$

Shyam's % expenses =  $15 + 25 + 40 = 80\%$

=> Shyam's % savings =  $100 - 80 = 20\%$

=> Shyam's savings =  $\frac{20}{100} \times 100x = 20x$

Acc to ques,

=>  $20x = 4800$

=>  $x = \frac{4800}{20} = 240$

∴ Shyam's monthly salary =  $100 * 240$

= Rs. 24,000

**Question 16**

The height and base of a triangle are equal to the length and breadth of a rectangle respectively. If the perimeter of the rectangle is 90m and the difference between its length and breadth is 7m, what is the area of the triangle ? (in m )

- A 239
- B 253
- C 241
- D 257
- E 247

**Answer: E**

**Explanation:**

Let length of rectangle =  $x$  m

Breadth =  $(x - 7)$  m

=> Perimeter of rectangle =  $2(x + x - 7) = 90$

=>  $2x - 7 = \frac{90}{2} = 45$

=>  $2x = 45 + 7 = 52$

=>  $x = \frac{52}{2} = 26$

=> Breadth =  $26 - 7 = 19$  m

=> Height of triangle = 26 m and Base of triangle = 19 m

∴ Area of triangle =  $\frac{1}{2} \times 26 \times 19$

=  $13 \times 19 = 247m^2$

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Question 17

When 33.75 is subtracted from the three-fifth of a number, it is equal to 45% of the same number. What is one third of the number ?

- A 36
- B 69
- C 25
- D 72
- E 75

Answer: E

Explanation:

Let the number =  $x$

Acc to ques,

$$\Rightarrow \frac{3x}{5} - 33.75 = \frac{45}{100}x$$

$$\Rightarrow \frac{3x}{5} - \frac{9x}{20} = 33.75$$

$$\Rightarrow \frac{3x}{20} = 33.75$$

$$\Rightarrow x = \frac{33.75 \times 20}{3} = 225$$

$$\therefore \text{One-third of the number} = \frac{1}{3} \times 225$$

$$= 75$$

Instructions

Study the table and answer the given questions.

Number of runs made by 5 batsmen in 5 matches of the tournament

Batsmen / Match	A	B	C	D	E
I	100	13	112	45	51
II	54	75	81	96	29
III	96	71	66	88	8
IV	39	96	115	108	65
V	45	117	106	54	108

Question 18

What is the difference between total number of runs made by C and D together in Match II and that made by A and E together in Match IV ?

- A 73
- B 61
- C 67
- D 71
- E 63

Answer: A

Explanation:

Total number of runs made by C and D together in Match II =  $81 + 96$

$$= 177$$

Total number of runs made by A and E together in Match IV =  $39 + 65$

$$= 104$$

$$\Rightarrow \text{Required difference} = 177 - 104 = 73$$

#### Question 19

Number of runs made by C in Match II is what percent of the number of runs made by E in Match V ?

- A 57%
- B 65%
- C 85%
- D 67%
- E 75%

**Answer: E**

#### Explanation:

Number of runs made by C in Match II = 81

Number of runs made by E in Match V = 108

$$\Rightarrow \text{Required \%} = \frac{81}{108} \times 100$$

$$= \frac{3}{4} \times 100 = 75\%$$

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#### Question 20

Number of runs made by A in Match III is what percent more than the number of runs made by B in Match II ?

- A 42%
- B 28%
- C 24%
- D 32%
- E 36%

**Answer: B**

#### Explanation:

Number of runs made by A in Match III = 96

Number of runs made by B in Match II = 75

$$\Rightarrow \text{Required \%} = \frac{96-75}{75} \times 100$$

$$= \frac{21}{3} \times 4 = 28\%$$

#### Question 21

What is the average number of runs made by B in match I, III and V?

- A 65

- B 69
- C 67
- D 73
- E 63

**Answer: C**

**Explanation:**

Number of runs made by B in match I, III and V

$$= 13 + 71 + 117 = 201$$

$$\Rightarrow \text{Required average} = \frac{201}{3}$$

$$= 67$$

**Question 22**

What is the respective ratio between total number of runs made by A in matches I and II together and that made by D in matches III and IV together ?

- A 7 : 12
- B 13 : 16
- C 11 : 16
- D 13 : 14
- E 11 : 14

**Answer: E**

**Explanation:**

Total number of runs made by A in matches I and II together =  $100 + 54$

$$= 154$$

Total number of runs made by D in matches III and IV together =  $88 + 108$

$$= 196$$

$$\Rightarrow \text{Required ratio} = 154 : 196$$

$$= 11 : 14$$

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**Instructions**

For the following questions answer them individually

**Question 23**

Sum of the perimeter of Square2 and Square1, is 80 cm. If the side of Square2, is 3 times that of Square1, what is the area of the Square2 ? (in cm )

- A 36
- B 81
- C 225
- D 144

E 324

Answer: C

Explanation:

Let the side of Square1 = a cm

=> Side of Square2 = 3a cm

Sum of perimeter of both squares

$$\Rightarrow (4 \times a) + (4 \times 3a) = 80$$

$$\Rightarrow 4a + 12a = 80$$

$$\Rightarrow a = \frac{80}{16} = 5$$

=> Side of Square2 = 5 \* 3 = 15 cm

$$\therefore \text{Area of Square2} = (15)^2$$

$$= 225\text{cm}^2$$

Question 24

Raj and Prithvi both started a business together, in which Raj invests X and Prithvi invests (X + 2000). At the end of one year, the total profit earned was 8,400, from which Raj's share was 3,600/ How much had Prithvi invested in the business ?

A 16,400/-

B 12,000/-

C 12,500/-

D 8,000/-

E 16,000/-

Answer: D

Explanation:

Ratio of investments of Raj and Prithvi =  $x : (x + 2000)$

Total profit = Rs. 8,400

Acc to ques,

$$\Rightarrow \frac{x}{x+x+2000} \times 8400 = 3600$$

$$\Rightarrow \frac{x}{2x+2000} = \frac{36}{84}$$

$$\Rightarrow \frac{x}{2x+2000} = \frac{3}{7}$$

$$\Rightarrow 7x = 6x + 6000$$

$$\Rightarrow x = 6000$$

$\therefore$  Amount invested by Prithvi = 6000 + 2000

= Rs. 8,000

Question 25

The sum of the speed of the boat A downstream and the speed of the boat B upstream is 27km/h. If the speed of boat A in still water is 3km/h less than that of boat B, what is the respective ratio between the speed of boat A in still water and that of boat B in still water? (Considering the speed of current to be constant)

A 4 : 5

B 2 : 5

- C 2 : 3
- D 3 : 5
- E 3 : 4

**Answer: A**

**Explanation:**

Let speed of boat A in still water =  $x$  kmph

=> Speed of boat B in still water =  $(x + 3)$  kmph

Let speed of current =  $y$  kmph

Acc to ques,

$$\Rightarrow (x + y) + (x + 3 - y) = 27$$

$$\Rightarrow 2x = 27 - 3 = 24$$

$$\Rightarrow x = \frac{24}{2} = 12 \text{ kmph}$$

Speed of B =  $12 + 3 = 15$  kmph

$\therefore$  Required ratio = 12 : 15

= 4 : 5

## SBI PO Free Mocks (Latest Pattern)

**Question 26**

The ratio between the present ages of Manthan and his mother is 3 : 7 respectively and that between Manthan and his father is 5 : 14 respectively. What is the respective ratio between the present ages of Manthan's mother and his father ?

- A 5 : 7
- B 7 : 9
- C 3 : 5
- D 2 : 3
- E 5 : 6

**Answer: E**

**Explanation:**

Age of Manthan : Age of mother = 3 : 7 -----Eqn(1)

Age of Manthan : Age of father = 5 : 14 -----Eqn(2)

Now, Eqn(1) \* 5 : Eqn(2) \* 3

=> Age of Manthan : Age of mother : Age of father

= 15 : 35 : 42

$\therefore$  Ratio of age of Manthan's mother and Manthan's father

= 35 : 42 = 5 : 6

**Question 27**

There are 40 students in a class. Number of girls is 16 more than number of boys. If the average weight of the girls in the class is 45 kg and the average weight of the overall class (boys + girls) is 47.7 kg, what is the average weight of boys ? (in kg)

- A 51

- B 54
- C 55
- D 56
- E 52



**Answer: B**

**Explanation:**

Let the number of boys =  $x$

=> Number of girls =  $(x + 16)$

=> Total students =  $x + x + 16 = 40$

=>  $2x = 40 - 16 = 24$

=>  $x = \frac{24}{2} = 12$

=> Number of girls =  $12 + 16 = 28$

=> Total weight of 28 girls =  $28 * 45 = 1260$

Total weight of all 40 students =  $40 * 47.7 = 1908$

=> Total weight of the boys =  $1908 - 1260 = 648$

∴ Average weight of boys =  $\frac{648}{12} = 54$  kg

**Question 28**

**A 750 ml mixture contains milk and water in the respective ratio of 8 : 7. What quantity of milk can be added to mixture to get a new mixture containing milk and water in the respective ratio of 8 : 5 ?**

- A 180 ml
- B 200 ml
- C 140 ml
- D 120 ml
- E 160 ml

**Answer: E**

**Explanation:**

Quantity of milk in 750 l mixture =  $\frac{8}{15} \times 750 = 400$  ml

Quantity of water =  $750 - 400 = 350$  ml

Let the quantity of milk to be added =  $x$  ml

Acc to ques,

$$\Rightarrow \frac{400+x}{350} = \frac{8}{5}$$

$$\Rightarrow 400 + x = \frac{8}{5} \times 350 = 560$$

$$\Rightarrow x = 560 - 400 = 160 \text{ ml}$$

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**Instructions**

What should come in place of question mark (?) in the following number series ?

**Question 29**

5, 4, 7, 20, 79, ?

- A 408
- B 372
- C 394
- D 350
- E 386

**Answer: C**

**Explanation:**

Consecutive natural numbers are multiplied and then 1 is subtracted

$$5 \times 1 - 1 = 4$$

$$4 \times 2 - 1 = 7$$

$$7 \times 3 - 1 = 20$$

$$20 \times 4 - 1 = 79$$

$$79 \times 5 - 1 = 394$$

**Question 30**

8, 4, 4, 6, 12, ?

- A 32
- B 30
- C 48
- D 36
- E 24

**Answer: B**

**Explanation:**

Multiples of 0.5 are multiplied

$$8 \times 0.5 = 4$$

$$4 \times 1 = 4$$

$$4 \times 1.5 = 6$$

$$6 \times 2 = 12$$

$$12 \times 2.5 = 30$$

**Question 31**

1440, ?, 48, 12, 4, 2

- A 640
- B 960
- C 720



D 240

E 540

**Answer: D**

**Explanation:**

The pattern is :

$$1440 \div 6 = 240$$

$$240 \div 5 = 48$$

$$48 \div 4 = 12$$

$$12 \div 3 = 4$$

$$4 \div 2 = 2$$

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**Question 32**

22, 19.7, 24.3, 17.4, ?, 15.1

A 33.1

B 28.5

C 26.6

D 32.7

E 24.3

**Answer: C**

**Explanation:**

Multiples of 2.3 are added and subtracted alternatively

$$22 - 2.3 \times 1 = 19.7$$

$$19.7 + 2.3 \times 2 = 24.3$$

$$24.3 - 2.3 \times 3 = 17.4$$

$$17.4 + 2.3 \times 4 = 26.6$$

$$26.6 - 2.3 \times 5 = 15.1$$

**Question 33**

32, ?, 52, 88, 152, 252

A 38

B 30

C 36

D 32

E 40

**Answer: C**

**Explanation:**

Squares of consecutive even numbers are added

$$32 + 2^2 = 36$$

$$36 + 4^2 = 52$$

$$52 + 6^2 = 88$$

$$88 + 8^2 = 152$$

$$152 + 10^2 = 252$$

**Instructions**

For the following questions answer them individually

**Question 34**

The average of 12 observations is 8. After that it is found 13 is replaced by 10 by mistake. What is the correct average of all observations ?

- A 17
- B 17.5
- C 7.75
- D 8
- E 5

**Answer: C**

**Explanation:**

Sum of the 12 observations =  $12 * 8 = 96$

Sum of the observations after correcting the mistake =  $96 - 13 + 10 = 93$

=> Required average =  $\frac{93}{12} = 7.75$

## SBI Clerk Free Mock Test (Latest Pattern)

**Question 35**

Rupa invested P in a scheme offering simple interest at the rate of 12% p.a. If the difference between the interest earned at the end of three years and that earned at the end of five years was 2880/-, what is the value of 'P' ?

- A 9,000/-
- B 10,800/-
- C 12,000/-
- D 15,000/-
- E 18,000/-

**Answer: C**

**Explanation:**

Let the principal = Rs. P

$$S.I. = \frac{P \times R \times T}{100}$$

Acc. to ques,

$$\Rightarrow \left( \frac{P \times 12 \times 5}{100} \right) - \left( \frac{P \times 12 \times 3}{100} \right) = 2880$$

$$\Rightarrow \frac{60P}{100} - \frac{36P}{100} = 2880$$

$$\Rightarrow 24P = 2880 \times 100 = 288000$$

$$\Rightarrow P = \frac{288000}{24} = 12,000$$

## SBI Clerk Previous Papers (Download PDF)

### Reasoning

#### Instructions

For the following questions answer them individually

#### Question 36

If each consonant in the word 'FRIEND' is changed to the previous letter in the English alphabetical series and each vowel is changed to the next letter in the English alphabetical series, and then the alphabets so formed are arranged in an alphabetical order from left to right, which of the following will be third from the right ?

A E

B Q

C J

D C

E M

Answer: C

#### Explanation:

Word - 'FRIEND'

If each consonant is changed to the previous letter in the English alphabetical series and each vowel is changed to the next letter in the English alphabetical series, thus new word = 'EQJFMC'

Arranging the alphabets in an alphabetical order from left to right, we get : CEFJMQ

3rd from the right = J

=> Ans - (C)

## Free Banking Study Material (15,000 Solved Questions)

#### Instructions

Study the following information carefully and answer the questions.

J, K, L, M, N, O, P and Q are sitting around a circular table facing the centre, but not necessarily in the same order. Only three people sit between N and O.

J sits to the immediate right of M.

K sits second to the right of L.

K is neither an immediate neighbour of M nor O.

P is neither an immediate neighbour of K nor O.

#### Question 37

Four of the following five are alike in a certain way based on their positions in the given arrangement and so form a group. Which is the one that does not belong to that group ?

A KPN

B OQL

C LKQ

D MLO

E NMP

Answer: D

**Explanation:**

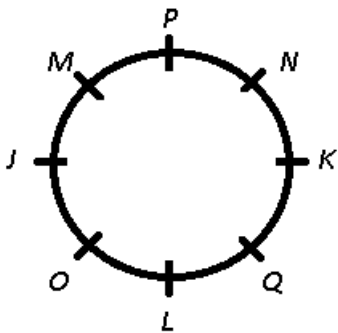
Only three people sit between N and O, => O and N sit opposite each other.

K sits second to the right of L. Also, K is not adjacent to O, => only 2 positions for O are possible (∵ it is also opposite to N), let it be to the immediate left of L.

=> N sits to the immediate right of K.

J sits to the immediate right of M and P is not adjacent to O, => M sits second to the right of N and J to the immediate left of O.

Also, P is not an immediate neighbour of K, => P sits between M and N and the vacant place, i.e. to the immediate right of L is taken by Q.



Apart from MLO, all the mentioned names are adjacent to each other.

=> Ans - (D)

**Question 38**

How many people are seated between K and J, when counted from the right of K ?

A One

B Four

C Three

D Two

E More than four

Answer: C

**Explanation:**

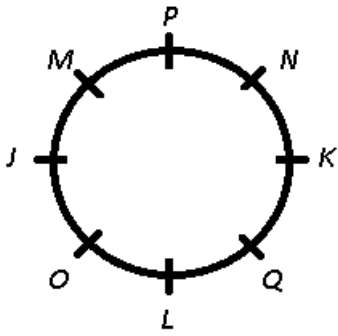
Only three people sit between N and O, => O and N sit opposite each other.

K sits second to the right of L. Also, K is not adjacent to O, => only 2 positions for O are possible (∵ it is also opposite to N), let it be to the immediate left of L.

=> N sits to the immediate right of K.

J sits to the immediate right of M and P is not adjacent to O, => M sits second to the right of N and J to the immediate left of O.

Also, P is not an immediate neighbour of K, => P sits between M and N and the vacant place, i.e. to the immediate right of L is taken by Q.



3 people are seated between K and J, when counted from the right of K.

=> Ans - (C)

**Question 39**

Who amongst the following represent the immediate neighbours of K ?

- A O, P
- B Q, P
- C J, Q
- D O, N
- E Q, N

**Answer:** E

**Explanation:**

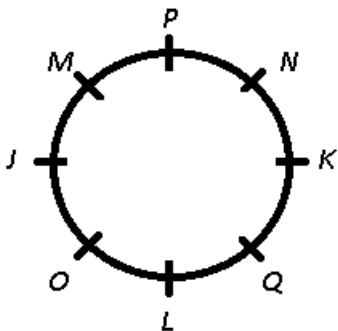
Only three people sit between N and O, => O and N sit opposite each other.

K sits second to the right of L. Also, K is not adjacent to O, => only 2 positions for O are possible (∵ it is also opposite to N), let it be to the immediate left of L.

=> N sits to the immediate right of K.

J sits to the immediate right of M and P is not adjacent to O, => M sits second to the right of N and J to the immediate left of O.

Also, P is not an immediate neighbour of K, => P sits between M and N and the vacant place, i.e. to the immediate right of L is taken by Q.



Q and N are the immediate neighbours of K.

=> Ans - (E)

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**Question 40**

Who amongst the following sits third to the left of L ?

- A J
- B Q
- C M
- D P
- E N

Answer: C

**Explanation:**

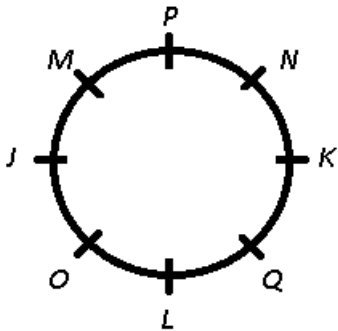
Only three people sit between N and O, => O and N sit opposite each other.

K sits second to the right of L. Also, K is not adjacent to O, => only 2 positions for O are possible (∵ it is also opposite to N), let it be to the immediate left of L.

=> N sits to the immediate right of K.

J sits to the immediate right of M and P is not adjacent to O, => M sits second to the right of N and J to the immediate left of O.

Also, P is not an immediate neighbour of K, => P sits between M and N and the vacant place, i.e. to the immediate right of L is taken by Q.



M sits third to the left of L.

=> Ans - (C)

**Question 41**

Which among the following statements is true regarding Q, as per the given arrangement ?

- A None of the given options is true
- B K sits to the immediate left of Q.
- C Q sits third to the left of N.
- D Only two people sit between Q and O.
- E Only three people sit between Q and J.

Answer: A

**Explanation:**

Only three people sit between N and O, => O and N sit opposite each other.

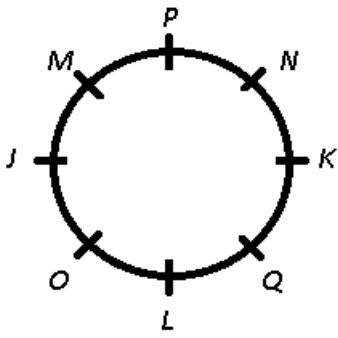
K sits second to the right of L. Also, K is not adjacent to O, => only 2 positions for O are possible (∵ it is also opposite to N), let it be to the immediate left of L.

=> N sits to the immediate right of K.

J sits to the immediate right of M and P is not adjacent to O, => M sits second to the right of N and J to the immediate left of O.

Also, P is not an immediate neighbour of K, => P sits between M and N and the vacant place, i.e. to the immediate right of L is taken by

Q.



None of the given statements is true.

=> Ans - (A)

**Instructions**

Study the given information carefully to answer the given questions.

Point Q is 12 m to the east of Point P. Point T is 18 m to the south of Point Q. Sneha who is standing at Point T, walks 4m towards east, takes a left turn and walks 18m. She takes a right turn, walks for 3m and stops at Point V.

**Question 42**

In which direction is Point T with respect to Point V ?

- A North-west
- B East
- C West
- D North
- E South-west

**Answer:** E

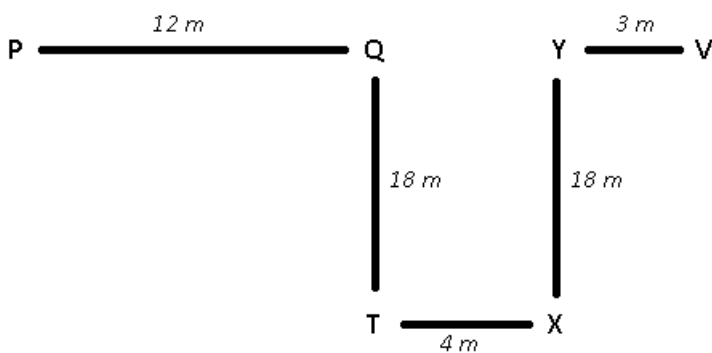
**Explanation:**

Point Q is 12 m to the east of Point P and Point T is 18 m to the south of Point Q.

Sneha walks 4 m towards east from point T, let she stops at point X

She takes a left turn from X and walks 18 m i.e., towards north, let she stops at point Y.

Finally, she walks 3 m towards east and reaches point V.



Clearly, point T is south west from point V.

=> Ans - (E)

**Question 43**

How far and in which direction is Point Q with respect to Point V ?

- A 7m towards west
- B 16m towards east
- C 9m towards east
- D 15m towards east
- E 19 towards west

**Answer: A**

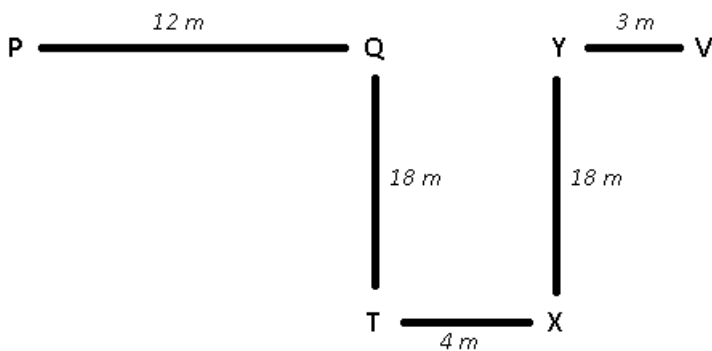
**Explanation:**

Point Q is 12 m to the east of Point P and Point T is 18 m to the south of Point Q.

Sneha walks 4 m towards east from point T, let she stops at point X

She takes a left turn from X and walks 18 m i.e., towards north, let she stops at point Y.

Finally, she walks 3 m towards east and reaches point V.



Point Q is  $(4 + 3) = 7$  m to the west of point V.

=> Ans - (A)

**Instructions**

In these questions, relationship between different elements is shown in the statements. The statements are followed by conclusions. Study the conclusions based on the given statements and select the appropriate answer. Give answer:

- a: If only conclusion I is true
- b: If either conclusion I or II is true
- c: If only conclusion II is true
- d: If neither conclusion I nor II is true
- e: If both conclusions I and II are true

**Question 44**

**Statement :**  $B \leq L < O = A > T$

**Conclusions :**

I.  $O > T$

II.  $B < A$

- A If only conclusion I is true
- B If either conclusion I or II is true
- C If only conclusion II is true
- D If neither conclusion I nor II is true
- E If both conclusions I and II are true

**Answer: E**



**Question 45**

**Statement :**  $A \leq B \leq C = D \leq E$

**Conclusions :**

I.  $A = E$

II.  $E > A$

- A If only conclusion I is true
- B If either conclusion I or II is true
- C If only conclusion II is true
- D If neither conclusion I nor II is true
- E If both conclusions I and II are true

**Answer:** B

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**Question 46**

**Statements :**  $J > U \geq M > P; U \leq N > R$

**Conclusion :**

I.  $M \leq N$

II.  $J > R$

- A If only conclusion I is true
- B If either conclusion I or II is true
- C If only conclusion II is true
- D If neither conclusion I nor II is true
- E If both conclusions I and II are true

**Answer:** A

**Explanation:**

1)  $M \leq N$  : We know that  $M \leq U \leq N$ . Hence, we can say that M is less than or equal to N. Conclusion I follows.

2)  $J > R$  : We know that  $J > U \leq N > R$ . Here the relationship between U and N cannot be made and hence the relationship between J and R cannot be made. Hence, conclusion II does not follow.

Hence, option A is the correct answer.

**Question 47**

**Statements :**  $K > L \geq M \geq N < O$

**Conclusions :**

I.  $O < K$

II.  $N \leq L$

- A If only conclusion I is true
- B If either conclusion I or II is true
- C If only conclusion II is true
- D If neither conclusion I nor II is true

E If both conclusions I and II are true

Answer: C

Question 48

Statements:  $B \geq E = A \geq C > H$ ;  $C < T$

Conclusions:

I.  $B = T$

II.  $B < T$

A If only conclusion I is true

B If either conclusion I or II is true

C If only conclusion II is true

D If neither conclusion I nor II is true

E If both conclusions I and II are true

Answer: D

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### Instructions

Study the following information and answer the questions given. B is the mother of T. T is the sister of J. J is married to L. L is the only son of K. K is the daughter of P.

### Question 49

How is T related to L ?

A Cousin

B Sister

C Sister-in-law

D Cannot be determined

E Niece

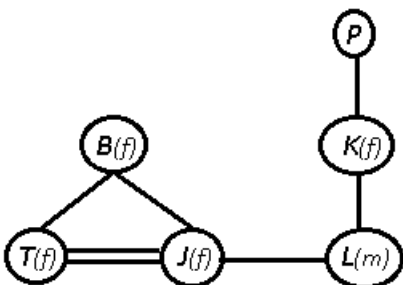
Answer: C

### Explanation:

B is the mother of T. T is the sister of J.

J is married to L and L is the only son of K,  $\Rightarrow$  J is female and daughter of B.

Also, K is the daughter of P.



T is the sister of L's wife, thus T is the sister-in-law of L.

=> Ans - (C)

**Question 50**

**How is B related to L ?**

- A Mother
- B Mother-in-law
- C Sister-in-law
- D Grandmother -
- E Cannot be determined

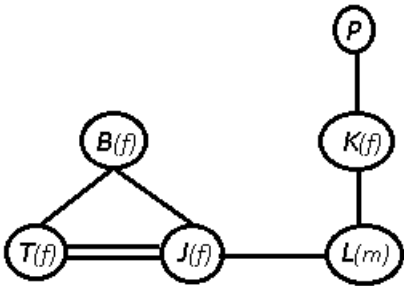
**Answer: B**

**Explanation:**

B is the mother of T. T is the sister of J.

J is married to L and L is the only son of K, => J is female and daughter of B.

Also, K is the daughter of P.



B is the mother of L's wife, thus B is the mother-in-law of L.

=> Ans - (B)

**Question 51**

**If K is the mother of X, then how is X related to P ?**

- A Son
- B Grandson
- C Daughter
- D Granddaughter
- E Cannot be determined

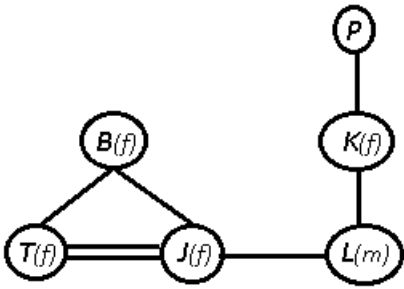
**Answer: D**

**Explanation:**

B is the mother of T. T is the sister of J.

J is married to L and L is the only son of K, => J is female and daughter of B.

Also, K is the daughter of P.



If K is the mother of X, then X must be a girl, since L is the only son of K, thus X is granddaughter of P.

=> Ans - (D)

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### Instructions

These questions are based on the given 3-digit numbers.

732 517 293 315 638

### Question 52

In how many of the given numbers, the product of the first and the second digits, is a multiple of the third digit ?

- A Two
- B One
- C Three
- D None
- E More than three

**Answer: B**

### Explanation:

Numbers : 732 517 293 315 638

Product of the first and the second digits :

$$732 = 7 \times 3 = 21 \neq 2k$$

$$517 = 5 \times 1 = 5 \neq 7k$$

$$293 = 2 \times 9 = 18 = 3 \times 6$$

$$315 = 3 \times 1 \neq 5k$$

$$638 = 6 \times 3 = 18 \neq 8k$$

Thus, only in 293, the product of the first and the second digits, is a multiple of the third digit.

=> Ans - (B)

### Question 53

If '27' is added to all the given numbers, in how many numbers thus formed will the second digit be greater than 7 ?

- A Three
- B None
- C One
- D More than three

E Two

Answer: B

**Explanation:**

Numbers : 732 517 293 315 638

If '27' is added to all the given numbers, then new numbers :

= 759 , 544 , 320 , 342 , 665

In none of the numbers thus formed the second digit is greater than 7.

=> Ans - (B)

**Question 54**

If all the given numbers are arranged in descending order from left to right, which of the following will be the sum of the digits of the number which is third from the right ?

A 9

B 12

C 17

D 14

E 13

Answer: E

**Explanation:**

Numbers : 732 517 293 315 638

If all the given numbers are arranged in descending order from left to right, arrangement :

= 732 , 638 , 517 , 315 , 293

Sum of the digits of the number which is third from the right (517) =  $5 + 1 + 7 = 13$

=> Ans - (E)

## SBI PO Free Mocks (Latest Pattern)

**Question 55**

If all the digits of the given numbers are arranged in ascending order within the number, what will be the product of the first and the third digits of the highest number thus formed ?

A 7

B 18

C 24

D 5

E 14

Answer: C

**Explanation:**

Numbers : 732 517 293 315 638

If all the digits of the given numbers are arranged in ascending order within the number, new numbers :

= 237 , 157 , 239 , 135 , 368

Product of the first and the third digits of the highest number (368) =  $3 \times 8 = 24$

=> Ans - (C)

**Question 56**

If '2' is added to the first digit of all even numbers and '2' is subtracted from the third digit of all odd numbers. In how many numbers thus formed will a digit appear twice ?

- A More than three
- B One
- C TWO
- D None
- E Three

**Answer:** E

**Explanation:**

Numbers : 732 517 293 315 638

If '2' is added to the first digit of all even numbers and '2' is subtracted from the third digit of all odd numbers, new numbers :

= 932 , 515 , 291 , 313 , 838

Thus, in three numbers (5,3,8) appear twice.

=> Ans - (E)

**Instructions**

For the following questions answer them individually

**Question 57**

Among five friends-A, B, C, D and E each earning a different salary, only two people earns more than E, B earns more than D but less than A, C earns more than D. Neither C earns highest nor second lowest. Who earns the maximum salary ?

- A E
- B D
- C Cannot be determined
- D A
- E B

**Answer:** D

**Explanation:**

Only two people earns more than E, => E is the third highest earner.

B earns more than D but less than A, C earns more than D, =>  $A > B > D$  and  $C > D$

Neither C earns highest nor second lowest, => C is the second highest earner.

$\therefore A > C > E > B > D$

Thus, A earns the maximum salary.

=> Ans - (D)

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**Instructions**

Study the following information and answer the questions.

Seven people, namely A, B, C, D, E, F and G visit seven different restaurants on seven different days of the same week starting from Monday and ending on Sunday, not necessarily in the same order. G visits a restaurant on Thursday. Only two persons visit between G and C. Only four people visit between C and E. A visits immediately before E. As many people visit between E and D as there are between A and E. B visits on one of the days after G but not on Saturday.

**Question 58**

**Who amongst the following visits a restaurant on Tuesday ?**

- A A
- B E
- C F
- D D
- E B

**Answer: B**

**Explanation:**

G visits a restaurant on Thursday. Only two persons visit between G and C, => C visits on Sunday.

Only four people visit between C and E, => E visits restaurant on Tuesday.

A visits immediately before E, => A visits on Monday

As many people visit between E and D as there are between A and E, => D visits on Wednesday.

B visits on one of the days after G but not on Saturday, => B visits on Friday and thus F visits restaurant on Saturday.

Days	Plays
Monday	A
Tuesday	E
Wednesday	D
Thursday	G
Friday	B
Saturday	F
Sunday	C

Clearly, E visits restaurant on Tuesday.

=> Ans - (B)

**Question 59**

**Which of the following is true about F ?**

- A Only one person visits a restaurant after F.
- B F visits a restaurant on Sunday .
- C All the given statements are true.
- D C visits a restaurant immediately before F.
- E Only one person visits between F and D.

**Answer: A**

**Explanation:**

G visits a restaurant on Thursday. Only two persons visit between G and C, => C visits on Sunday.

Only four people visit between C and E, => E visits restaurant on Tuesday.

A visits immediately before E, => A visits on Monday

As many people visit between E and D as there are between A and E, => D visits on Wednesday.

B visits on one of the days after G but not on Saturday, => B visits on Friday and thus F visits restaurant on Saturday.

Days	Plays
Monday	A
Tuesday	E
Wednesday	D
Thursday	G
Friday	B
Saturday	F
Sunday	C

Since, F visits the restaurant on Saturday, thus only 1 person visits a restaurant after F.

=> Ans - (A)

**Question 60**

As per the given arrangement C is related to Thursday in a certain way and G is related to Monday in the same way. To which of the following is B related to in the suite way ?

- A Saturday
- B Friday
- C Tuesday
- D Sunday
- E Wednesday

**Answer:** C

**Explanation:**

G visits a restaurant on Thursday. Only two persons visit between G and C, => C visits on Sunday.

Only four people visit between C and E, => E visits restaurant on Tuesday.

A visits immediately before E, => A visits on Monday

As many people visit between E and D as there are between A and E, => D visits on Wednesday.

B visits on one of the days after G but not on Saturday, => B visits on Friday and thus F visits restaurant on Saturday.



Days	Plays
Monday	A
Tuesday	E
Wednesday	D
Thursday	G
Friday	B
Saturday	F
Sunday	C

C is related to Thursday, => C visits 3 days after Thursday.

G is related to Monday, => G visits 3 days after Monday.

Similarly, B visits 3 days after Tuesday, => B is related to Tuesday.

=> Ans - (C)

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### Question 61

On which of the following days does D visit a restaurant ?

- A Monday
- B Friday
- C Saturday
- D Sunday
- E Wednesday

**Answer:** E

#### Explanation:

G visits a restaurant on Thursday. Only two persons visit between G and C, => C visits on Sunday.

Only four people visit between C and E, => E visits restaurant on Tuesday.

A visits immediately before E, => A visits on Monday

As many people visit between E and D as there are between A and E, => D visits on Wednesday.

B visits on one of the days after G but not on Saturday, => B visits on Friday and thus F visits restaurant on Saturday.

Days	Plays
Monday	A
Tuesday	E
Wednesday	D
Thursday	G
Friday	B
Saturday	F
Sunday	C

D visits a restaurant on Wednesday.

=> Ans - (E)

**Question 62**

Four of the following five are alike in a certain way and then form a group as per the given arrangement. Which of the following does not belong to that group ?

- A FC
- B BF
- C DG
- D AE
- E EB

**Answer:** E

**Explanation:**

G visits a restaurant on Thursday. Only two persons visit between G and C, => C visits on Sunday.

Only four people visit between C and E, => E visits restaurant on Tuesday.

A visits immediately before E, => A visits on Monday

As many people visit between E and D as there are between A and E, => D visits on Wednesday.

B visits on one of the days after G but not on Saturday, => B visits on Friday and thus F visits restaurant on Saturday.

Days	Plays
Monday	A
Tuesday	E
Wednesday	D
Thursday	G
Friday	B
Saturday	F
Sunday	C

All the pairs mentioned apart from EB, visits the restaurant on consecutive days.

=> Ans - (E)

**Instructions**

For the following questions answer them individually

**Question 63**

In a certain code language, 'JUGS' is coded as 'KTFT' and 'WHEN' is coded as 'XGDO'. In the same code language, 'ONCE' will be coded as :

- A PMDF
- B PMBD
- C NODD
- D PMBF
- E NODE

**Answer:** D

**Explanation:**

'JUGS' is coded as 'KTFT'

The pattern followed is :

J	U	G	S
(+1)	(-1)	(-1)	(+1)
K	T	F	T

'WHEN' is coded as 'XGDO'

W	H	E	N
(+1)	(-1)	(-1)	(+1)
X	G	D	O

Similarly, code for ONCE :

O	N	C	E
(+1)	(-1)	(-1)	(+1)
P	M	B	F

=> Ans - (D)

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### Question 64

In a certain code, if 'on the day' is coded as 'la si ko' and 'the setting day' is coded as 'si mu la', what is the code for 'setting' in the given code language?(All the codes are two letter codes only)

- A mu
- B ko
- C si
- D Either 'la' or 'ko'
- E la

**Answer:** A

### Explanation:

The common words in both the statements are 'the' and 'day' coded as = 'la' or 'si'

Thus, the remaining word in second statement is 'setting' coded as = 'mu'

=> Ans - (A)

### Question 65

How many such pairs of letters are there in the word 'THINK', each of which has as many letters between them in the word (in both forward and backward directions) as they have between them in the English alphabetical series ?

- A More than three
- B Three
- C Two
- D None
- E One

**Answer:** B

### Explanation:

Word - 'THINK'

There are 3 pairs of letters which have as many letters between them in the word as they have between them in the English alphabetical series

= (H,I) , (H,K) , (I,K)

=> Ans - (B)

#### Instructions

Study the following arrangement carefully and answer the questions.

X 5 L @ U C % M P 6 F N 3 \* K & Z G π Q 4 Y j 7 # T R 8 W ^ B V

#### Question 66

How many such alphabets are there in the given arrangement each of which is immediately preceded by number as well as immediately followed by a symbol ?

A More than three

B One

C None

D Two

E Three

Answer: D

#### Explanation:

Series : X 5 L @ U C % M P 6 F N 3 \* K & Z G π Q 4 Y j 7 # T R 8 W ^ B V

We need to find alphabets which are immediately preceded by number as well as immediately followed by a symbol

= (number) (alphabet) (symbol)

X 5 L @ U C % M P 6 F N 3 \* K & Z G π Q 4 Y j 7 # T R **8 W** ^ B V

Thus, there are 2 such alphabets.

=> Ans - (D)

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#### Question 67

If all the numbers are deleted from the given arrangement then which of the following will be the tenth element from the right end ?

A Q

B Y

C &

D N

E G

Answer: A

#### Explanation:

Series : X 5 L @ U C % M P 6 F N 3 \* K & Z G π Q 4 Y j 7 # T R 8 W ^ B V

If all the numbers are deleted from the given arrangement, then new arrangement :

= X L @ U C % M P F N \* K & Z G π Q Y j # T R W ^ B V

10th element from the right end = Q

=> Ans - (A)

**Question 68**

Which one of the following will come in place of the sequence ?

VB8 T#Y Qπ& \*36 ?

- A %C5
- B M%@
- C PMU
- D MCL
- E 3N6

**Answer: B**

**Explanation:**

Series : X 5 L @ U C % M P 6 F N 3 \* K & Z G π Q 4 Y j 7 # T R 8 W ^ B V

Pattern : VB8 T#Y Qπ& \*36 ?

The pattern followed in each element of the terms is :

1st element : V (-6 positions) = T (-6 positions) = Q (-6 positions) = \* (-6 positions) = M

2nd element : B (-6 positions) = # (-6 positions) = π (-6 positions) = 3 (-6 positions) = %

3rd element : 8 (-6 positions) = Y (-6 positions) = & (-6 positions) = 6 (-6 positions) = @

Thus, missing term = **M%@**

=> Ans - (B)

**Question 69**

How many consonants are there each of which is immediately preceded by a symbol and immediately followed by a number ?

- A More than three
- B Two
- C One
- D Three
- E None

**Answer: C**

**Explanation:**

Series : X 5 L @ U C % M P 6 F N 3 \* K & Z G π Q 4 Y j 7 # T R 8 W ^ B V

We need to find consonants which are immediately preceded by a symbol and immediately followed by a number

= (symbol) (consonant) (number)

= X 5 L @ U C % M P 6 F N 3 \* K & Z G π Q 4 Y j 7 # T R 8 W ^ B V

Thus, there is only 1 such consonant.

=> Ans - (C)

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Question 70

Four of the following five are alike in a certain way based on the above arrangement and so form a group. Which is the one that does not belong to the group ?

- A C%@
- B N36
- C 7#Y
- D W8T
- E πQZ

Answer: D

**Explanation:**

Series : X 5 L @ U C % M P 6 F N 3 \* K & Z G π Q 4 Y j 7 # T R 8 W ^ B V

The pattern followed is that the second element is to the immediate right of the first element, which is not observed in **W8T**, hence it is the odd one out.

=> Ans - (D)

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