



SSC CHSI 14 March 2018 Afternoon Shift

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Instructions

For the following questions answer them individually

Question 1

The sum of a proper fraction and its reciprocal is $\frac{61}{30}$. Find the fraction.

A $\frac{1}{3}$

B $\frac{5}{6}$

C $\frac{3}{10}$

D $\frac{3}{5}$

Answer: B

Explanation:

Let the fraction be x

According to ques,

$$\Rightarrow x + \frac{1}{x} = \frac{61}{30}$$

$$\Rightarrow \frac{x^2 + 1}{x} = \frac{61}{30}$$

$$\Rightarrow 30x^2 - 61x + 30 = 0$$

$$\Rightarrow 30x^2 - 36x - 25x + 30 = 0$$

$$\Rightarrow 6x(5x - 6) - 5(5x - 6) = 0$$

$$\Rightarrow (6x - 5)(5x - 6) = 0$$

$$\Rightarrow x = \frac{5}{6}, \frac{6}{5}$$

\Rightarrow Ans - (B)

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Question 2

Sum of four consecutive odd numbers is 208. Find the largest number.

A 55

B 57

C 59

D 61

Answer: A

Explanation:

Let the four consecutive odd numbers be $(x - 3)$, $(x - 1)$, $(x + 1)$ and $(x + 3)$

$$\text{Sum} = (x - 3) + (x - 1) + (x + 1) + (x + 3) = 208$$

$$\Rightarrow 4x = 208$$

$$\Rightarrow x = \frac{208}{4} = 52$$

$$\therefore \text{Largest number} = 52 + 3 = 55$$

=> Ans - (A)

Question 3

If $\frac{-5x}{3} + 2 = x - 6$, then find the value of 'x'.

A 1

B 2

C 3

D 4

Answer: C

Explanation:

Expression : $\frac{-5x}{3} + 2 = x - 6$

$$\Rightarrow x + \frac{5x}{3} = 2 + 6$$

$$\Rightarrow \frac{3x+5x}{3} = 8$$

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

$$\Rightarrow x = \frac{24}{8} = 3$$

=> Ans - (C)

Question 4

Divya and Kriti have total 46 candies. If Divya has 10 candies more than kriti, then find the total number of candies Divya have?

A 20

B 24

C 28

D 32

Answer: C

Explanation:

Let candies with Kirti = x and with Divya = $(x + 10)$

Total candies = $x + x + 10 = 46$

$$\Rightarrow 2x = 46 - 10 = 36$$

$$\Rightarrow x = \frac{36}{2} = 18$$

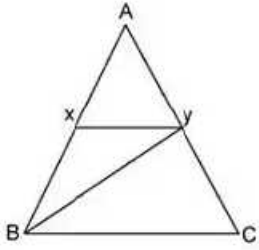
\therefore Number of candies that Divya has = $18 + 10 = 28$

=> Ans - (C)

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Question 5

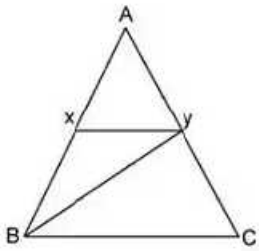
Triangle ABC as shown in the figure has line XY parallel to the BC and the line BY is the bisector of angle XYC. Which of the following option is correct?



- A BC=XY
- B BC=YC
- C BC=BY
- D XY=BX

Answer: B

Explanation:



\therefore XY is parallel to BC

$\Rightarrow \angle XYB = \angle YBC$ -----(i) [Alternate interior angles]

Also, BY is the angle bisector of $\angle XYC$.

$\Rightarrow \angle XYB = \angle BYC$ -----(ii)

From equations (i) and (ii), we get : $\angle YBC = \angle BYC$

\therefore BC = YC [Sides opposite to equal angles]

\Rightarrow Ans - (B)

Question 6

Analyze the figure shown below in which $DE \parallel BC$ and the other dimensions are as follows AD=3 cm, BD=4 cm, AE=4.4 cm and DE=6 cm. Calculate the length (in cm) of BC.

- A 6
- B 8
- C 12
- D 14

Answer: D

Question 7

Two numbers are more than the third number by 16.25% and 55% respectively. First number is what percentage of the second number?

- A 85
- B 81.5
- C 75
- D 61.25

Answer: C

Explanation:

Let the third number = $100x$

First number is greater than the third number by 16.25%, \Rightarrow First number = $100x + \left(\frac{16.25}{100} \times 100x\right) = 116.25x$

Similarly, second number = $100x + \left(\frac{55}{100} \times 100x\right) = 155x$

\therefore Required % = $\frac{116.25x}{155x} \times 100 = 75\%$

\Rightarrow Ans - (C)

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Question 8

If $u : v = v : w$, then what is the value of $u^4 : v^4$?

- A $u^2 : wv$
- B $u^2 : w^2$
- C $u^2v : w^3$
- D $u : w$

Answer: B

Explanation:

Given = $u : v = v : w$

$\Rightarrow v^2 = uw$ (i)

To find = $u^4 : v^4$

Substituting value from equation (i), we get :

$$= u^4 : (uw)^2$$

$$= u^4 : w^2$$

\Rightarrow Ans - (B)

Question 9

R and S started a business by investing Rs 165000 and Rs 195000 respectively for the same period of time. If R's share in the profit earned by them is Rs 11000, then what is the total profit (in Rs) earned by both of them together?

- A 22000
- B 40000
- C 26000
- D 24000

Answer: D

Explanation:

Investment by R = Rs. 165,000 and by S = Rs. 195,000

=> Ratio of profits at the end of year = 165,000 : 195,000 = 11 : 13

R's share in the profit = Rs. 11,000

=> Total profit = $\frac{(11+13)}{11} \times 11,000$

=> $24 \times 1000 = \text{Rs. } 24,000$

=> Ans - (D)

Question 10

The average of 12 numbers is 35. If four numbers 20, 27, 15 and 29 are removed then what will be the average of remaining numbers?

A 41.125

B 49.5

C 52.5

D 38.375

Answer: A

Explanation:

Average of 12 numbers = 35

=> Sum of numbers = $35 \times 12 = 420$

Sum of the 4 removed numbers = $20 + 27 + 15 + 29 = 91$

=> New average of 8 numbers = $\frac{(420-91)}{8}$

= $\frac{329}{8} = 41.125$

=> Ans - (A)

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Question 11

What is the difference (in Rs) between compound interest (compounded annually) and simple interest for 3 years on a principal of Rs 3000 at the annual rate of 20% ?

A 464

B 384

C 356

D 424

Answer: B

Explanation:

Principal sum = Rs. 3,000

Rate of interest = 20% and time period = 3 years

=> Difference between compound and simple interest = $[P(1 + \frac{R}{100})^T - P] - (\frac{P \times R \times T}{100})$

$$\begin{aligned}
 &= [3000(1 + \frac{20}{100})^3 - 3000] - (\frac{3000 \times 20 \times 3}{100}) \\
 &= [3000(\frac{6}{5})^3 - 3000] - (1800) \\
 &= 3000 \times (\frac{216}{125}) - 4800 \\
 &= (24 \times 216) - 4800 \\
 &= 5184 - 4800 = \text{Rs. } 384
 \end{aligned}$$

=> Ans - (B)

Question 12

A dishonest shopkeeper uses a weight of 850 gm instead of 1 kg and sells rice on its cost price. What will be his profit percentage on selling 5 kg rice?

- A 18.24
- B 17.65
- C 15
- D 13.04

Answer: B

Explanation:

Let cost price of 1 kg rice = Rs. 1000 (1 gm rice cost Re. 1)

=> Cost price of 1 kg rice (850 gm in reality) = Rs. 850

He sells rice on its cost price, => selling price of 1 kg rice = Rs. 1000

$$\therefore \text{Profit \%} = \frac{(1000 - 850)}{850} \times 100$$

$$= \frac{150}{850} = 17.647 \equiv 17.65\%$$

=> Ans - (B)

Question 13

A fan is sold at a discount of 37.5%. If the marked price of the fan is Rs 7200, then what is the selling price (in Rs) of the fan?

- A 4500
- B 4350
- C 5240
- D 5120

Answer: A

Explanation:

Marked price = Rs. 7200

$$\text{Discount \%} = 37.5\% = \frac{3}{8}$$

$$\Rightarrow \text{Selling price} = 7200 - (\frac{3}{8} \times 7200)$$

$$= (7200 - 2700) = \text{Rs. } 4500$$

=> Ans - (A)

Question 14

What is the simplified value of $2\sqrt[3]{243} + 3\sqrt[3]{9} - \sqrt[3]{1125}$?

- A $5\sqrt[3]{9}$
- B $4\sqrt[3]{9}$
- C $7\sqrt[3]{9}$
- D $11\sqrt[3]{9}$

Answer: B

Explanation:

Expression : $2\sqrt[3]{243} + 3\sqrt[3]{9} - \sqrt[3]{1125}$

$$= 2\sqrt[3]{27 \times 9} + 3\sqrt[3]{9} - \sqrt[3]{125 \times 9}$$

$$= 6\sqrt[3]{9} + 3\sqrt[3]{9} - 5\sqrt[3]{9}$$

$$= 4\sqrt[3]{9}$$

=> Ans - (B)

Question 15

24 men can repair a road in 50 days. If they are joined by 16 more men, then in how much time (in days) the road can be repaired?

- A 28
- B 25
- C 32
- D 30

Answer: D

Explanation:

24 men can repair a road in 50 days

Let time taken by (24+16=40) men = x days

Using, $M_1D_1 = M_2D_2$

$$\Rightarrow 24 \times 50 = 40 \times x$$

$$\Rightarrow x = \frac{120}{4} = 30$$

\therefore Road can be prepared in = **30 days**

=> Ans - (D)

Question 16

Two motorcycles are moving towards each other with the speeds of 38 km/hr and 88 km/hr respectively. One second before the collision what will be the distance (in metres) between the two motorcycles?

- A 42
- B 40
- C 34
- D 35

Answer: D

Explanation:

The motorcycles are moving towards each other, relative speed = $38 + 88 = 126$ km/hr

$$= (126 \times \frac{5}{18}) = 35 \text{ m/s}$$

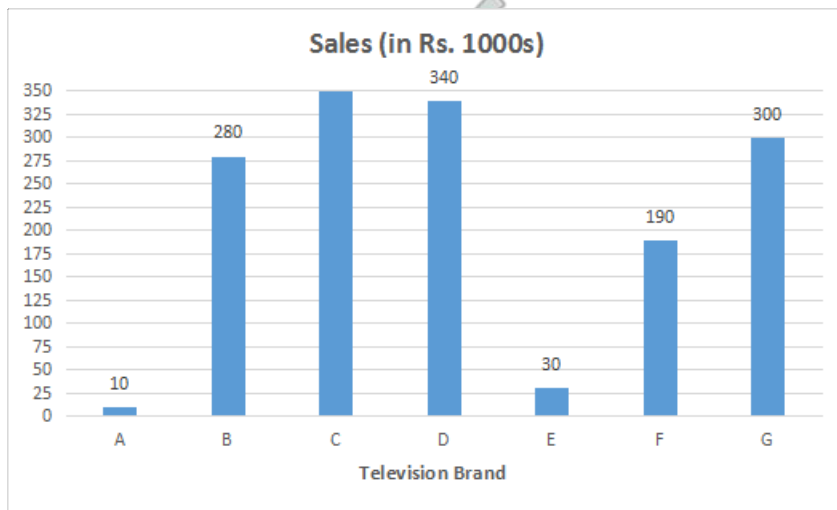
Thus, one second before the collision, the distance (in metres) between the two motorcycles will be = 35

=> Ans - (D)

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Instructions

The bar graph shows 1 month's sales figures of different brands of televisions of a certain electronics store in Rs 1000s. Study the diagram and answer the following questions.



Question 17

Sales of which television brand were the second lowest?

- A A
- B C
- C G
- D E

Answer: D

Explanation:

Sales of television brand E were the second lowest = Rs. 30,000

=> Ans - (D)

Question 18

What is the ratio of sales of brand E to that of brand A?

- A 1 : 3
- B 3 : 1
- C 4 : 1
- D 1 : 4

Answer: B

Explanation:

Sales of brand E (in Rs. 000's) = 30

Sales of brand A (in Rs. 000's) = 10

$$\Rightarrow \text{Required ratio} = \frac{30}{10} = 3 : 1$$

\Rightarrow Ans - (B)

Question 19

Sales of brand B was lesser than that of brand G by _____.

A 3.75%

B 6.67%

C 7.14%

D 5.25%

Answer: B

Explanation:

Sales of brand B (in Rs. 000's) = 280

Sales of brand G (in Rs. 000's) = 300

$$\Rightarrow \text{Required \%} = \frac{(300-280)}{300} \times 100$$

$$= \frac{20}{3} = 6.67\%$$

\Rightarrow Ans - (B)

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Question 20

If the sales figures are exclusive of tax then at the rate of 12% tax how much is the tax to be paid (in Rs) on the sales of all the 7 brands of televisions?

A 180000

B 18000

C 420000

D 42000

Answer: A

Explanation:

Total sales of all the 7 brands of televisions (in Rs. 000's)

$$= 10 + 280 + 350 + 340 + 30 + 190 + 300 = 1500$$

Tax % = 12%

$$\Rightarrow \text{Tax to be paid (in Rs) on the sales of all the 7 brands of televisions} = \frac{12}{100} \times 15,00,000 = 180,000$$

\Rightarrow Ans - (A)

Instructions

For the following questions answer them individually

Question 21

The area and the length of one of the diagonals of a rhombus is 60cm^2 and 8 cm respectively. Find the length of its other diagonal (in cm).

- A 7.5
- B 30
- C 22.5
- D 15

Answer: D

Explanation:

Let length of one diagonal = d cm and length of other diagonal = 8 cm

$$\Rightarrow \text{Area of rhombus} = \frac{1}{2} \times d_1 d_2$$

$$\Rightarrow \frac{1}{2} \times 8 \times d = 60$$

$$\Rightarrow d = \frac{60 \times 2}{8}$$

$$\Rightarrow d = 15 \text{ cm}$$

\Rightarrow Ans - (D)

Question 22

Find the area (in cm^2) of a semi-circle of radius 7 cm.

- A 154
- B 21
- C 42
- D 77

Answer: D

Explanation:

Radius of semi circle = $r = 7$ cm

$$\Rightarrow \text{Area of semi-circle} = \frac{1}{2} \pi r^2$$

$$= \frac{1}{2} \times \frac{22}{7} \times (7)^2$$

$$= 11 \times 7 = 77 \text{ cm}^2$$

\Rightarrow Ans - (D)

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Question 23

Find the total surface area (in cm^2) of a cube of side 3.5 cm.

- A 91.7
- B 64
- C 88

D 73.5

Answer: D

Explanation:

Edge of cube, $a = 3.5$ cm

Total surface area = $6a^2$

$$= 6 \times (3.5)^2 = 73.5 \text{ cm}^2$$

=> Ans - (D)

Question 24

What is the value of $(\frac{1}{\sqrt{3}} + \cot 60^\circ)$?

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

B $\frac{7}{2\sqrt{3}}$

C $\frac{(4+\sqrt{3})}{2\sqrt{3}}$

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

Answer: D

Explanation:

Expression : $(\frac{1}{\sqrt{3}} + \cot 60^\circ)$

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

$$= \frac{2}{\sqrt{3}}$$

=> Ans - (D)

Question 25

ΔABC is right angled at B. If $\cot A = \frac{7}{24}$, then what is the value of $\operatorname{cosec} C$?

A $\frac{7}{25}$

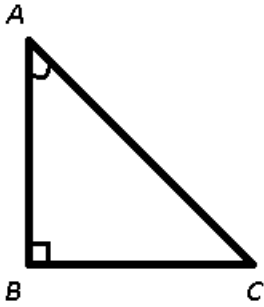
B $\frac{25}{7}$

C $\frac{24}{7}$

D $\frac{7}{24}$

Answer: B

Explanation:



Given : $\cot A = \frac{7}{24}$

Also, $\cot A = \frac{AB}{BC} = \frac{7}{24}$

Let $AB = 7$ cm and $BC = 24$ cm

Thus, in $\triangle ABC$,

$$\Rightarrow (AC)^2 = (AB)^2 + (BC)^2$$

$$\Rightarrow (AC)^2 = (7)^2 + (24)^2$$

$$\Rightarrow (AC)^2 = 49 + 576 = 625$$

$$\Rightarrow AC = \sqrt{625} = 25 \text{ cm}$$

To find : $\operatorname{cosec} C = \frac{AC}{AB}$

$$= \frac{25}{7}$$

\Rightarrow Ans - (B)

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Reasoning

Instructions

For the following questions answer them individually

Question 26

In the following question, select the related word pair from the given alternatives.

Hospital : Treatment :: ? : ?

- A Product : Production
- B Government : Country
- C Justice : Court
- D School : Education

Answer: D

Explanation:

Expression = Hospital : Treatment :: ? : ?

The first is use for second, i.e. hospitals are used to treat patients, similarly schools are used for the purpose of education.

\Rightarrow Ans - (D)

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Question 27

In the following question, select the related number from the given alternatives.

13 : 171 :: 17 : ?

- A 286
- B 289
- C 291
- D 294

Answer: C

Explanation:

Expression = 13 : 171 :: 17 : ?

The numbers are of the form = $n : (n^2 + 2)$

Eg :- $(13)^2 + 2 = 169 + 2 = 171$

Similarly, $(17)^2 + 2 = 289 + 2 = 291$

=> Ans - (C)

Question 28

In the following question, select the related letter/letters from the given alternatives.

PTR : NRP :: WTV : ?

- A YVX
- B YVZ
- C URT
- D UQT

Answer: C

Explanation:

Expression = PTR : NRP :: WTV : ?

The pattern followed is :

P	T	R
(-2)	(-2)	(-2)
N	R	P

Similarly, for WTV : **URT**

W	T	V
(-2)	(-2)	(-2)
U	R	T

=> Ans - (C)

Question 29

In the following question, select the odd word from the given alternatives.

- A West

B Direction

C South

D South - West

Answer: B

Explanation:

West, South and South - West are all directions, hence **Direction** is the odd one out.

=> Ans - (B)

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Question 30

In the following question, four number pairs are given. The number on left side of (-) is related to the number on the right side of (-) with some Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

A 23 - 24

B 25 - 26

C 27 - 28

D 29 - 27

Answer: D

Explanation:

The difference between each of the pair of numbers is 1.

But in the last option => $29 - 27 = 2$

Thus, (29 - 27) is the odd one out.

=> Ans - (D)

Question 31

In the following question, select the odd letter/letters from the given alternatives.

A SRQP

B JIHG

C VUTS

D ZYXV

Answer: D

Explanation:

(A) : S (-1 letter) = R (-1 letter) = Q (-1 letter) = P

(B) : J (-1 letter) = I (-1 letter) = H (-1 letter) = G

(C) : V (-1 letter) = U (-1 letter) = T (-1 letter) = S

(D) : Z (-1 letter) = Y (-1 letter) = X (-2 letters) = V

=> Ans - (D)

Question 32

Arrange the given words in the sequence in which they occur in the dictionary.

1. Dispel
2. Dispute
3. Distinct
4. Dissent
5. Disrupt

- A 35412
B 15342
C 23415
D 12543

Answer: D

Explanation:

As per the order of dictionary :

= Dispel -> Dispute -> Disrupt -> Dissent -> Distinct

≡ 12543

=> Ans - (D)

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Question 33

In the following question, select the missing number from the given series.

15, 21, 28, 34, ?, 47

- A 41
B 40
C 44
D 43

Answer: A

Explanation:

'6' and '7' are alternatively added.

$$15 + 6 = 21$$

$$21 + 7 = 28$$

$$28 + 6 = 34$$

$$34 + 7 = 41$$

$$41 + 6 = 47$$

=> Ans - (A)

Question 34

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

D, G, K, N, R, ?, ?, B, F

- A U, Z

B U, Y

C X, Z

D T, Z

Answer: B

Explanation:

Series : D, G, K, N, R, ?, ?, B, F

The pattern followed is that there is a difference of 7 letters in the two alternative series.

Even series : G (+7 letters) = N (+7 letters) = U (+7 letters) = B

Odd series : D (+7 letters) = K (+7 letters) = R (+7 letters) = Y (+7 letters) = F

Thus, missing terms = **U, Y**

=> Ans - (B)

Question 35

Rajnish walks 35 km towards north. He turns left and walks 20 km. He turns left and walks 35 km. How far (in km) is he now from his starting point?

A 25

B 90

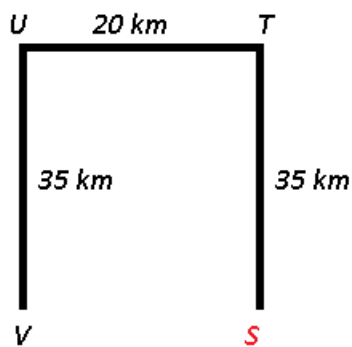
C 20

D $10\sqrt{2}$

Answer: C

Explanation:

Let Rajnish starts from point S and walks 35 km towards north to reach T. He turns left and walks 20 km westwards. He again turns left and walks 35 km towards south to finally stop at point V.



∴ He is **20 km** from his starting point.

=> Ans - (C)

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Question 36

From the given alternatives, select the word which **CANNOT** be formed using the letters of the given word.

Nightingales

A Nine

- B Gales
- C Eight
- D Novel

Answer: D

Explanation:

The word NIGHTINGALES does not contain any 'O' or 'V', thus the term **Novel** cannot be formed.

=> Ans - (D)

Question 37

In a certain code language, "TALCS" is written as "UENC V". How is "SPARK" written in that code language?

- A HRVTN
- B MTCRU
- C MTCSV
- D MAMTR

Answer: B

Explanation:

"TALCS" is written as "UENC V"

The pattern followed is that when we reverse the word, we have : SCLAT

S	C	L	A	T
(+2)	(+2)	(+2)	(+2)	(+2)
U	E	N	C	V

Similarly, for SPARK :

K	R	A	P	S
(+2)	(+2)	(+2)	(+2)	(+2)
M	T	C	R	U

=> Ans - (B)

Question 38

In a certain code language, '+' represents '-', '-' represents '+', 'x' represents '÷' and '÷' represents 'x'. Find out the answer to the following question.

$2 \div 12 - 6 + 20 \times 4 = ?$

- A 40
- B 1
- C 20
- D 43

Answer: C

Explanation:

Expression : $2 \div 12 - 6 + 20 \times 4 = ?$

$\equiv 2 - 12 + 6 \times 20 \div 4$

$= -10 + (6 \times 5)$

$$= -10 + 30 = 20$$

=> Ans - (C)

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Question 39

The following equation is incorrect. Which two signs should be interchanged to correct the equation?

$$18 \times 12 - 6 \div 5 + 4 = 35$$

A \div and +

B - and \div

C - and +

D + and x

Answer: B

Explanation:

Expression : $18 \times 12 - 6 \div 5 + 4 = 35$

(A) : \div and +

$$\equiv 18 \times 12 - 6 + 5 \div 4 = 35$$

$$\text{L.H.S.} = 216 - 6 + 1.25 = 211.25 \neq \text{R.H.S.}$$

(B) : - and \div

$$\equiv 18 \times 12 \div 6 - 5 + 4 = 35$$

$$\text{L.H.S.} = (18 \times \frac{12}{6}) - 5 + 4$$

$$= 36 - 5 + 4 = 35 = \text{R.H.S.}$$

=> Ans - (B)

Question 40

If $8*9 = 36$, $12*4 = 24$ and $14*6 = 42$, then find the value of $18*6 = ?$

A 14

B 54

C 44

D 2

Answer: B

Explanation:

Given : $8*9 = 36$, $12*4 = 24$ and $14*6 = 42$

If we replace '*' with 'x', and divide the product by 2, we get the desired result.

$$\text{Eg :- } \frac{8 \times 9}{2} = 36$$

$$\text{and } \frac{12 \times 4}{2} = 24 \text{ and } \frac{14 \times 6}{2} = 42$$

$$\text{Similarly, } \frac{18 \times 6}{2} = 54$$

=> Ans - (B)

Question 41

Which of the following terms follows the trend of the given list?

AABAAAA, BAAAAA, AAAAAA, AAABAAA, ABAAAA, _____.

- A AAAABAA
- B AABAAAA
- C BAAAAA
- D AAAAAAB

Answer: D

Explanation:

Expression : AABAAAA, BAAAAA, AAAAAA, AAABAAA, ABAAAA, _____.

The pattern followed is that in each term there are combinations of 'A' and 'B' (7 letters) and in each term, the position of B is shifted two places to the left starting from third position.

Thus, in the missing term, B will be at the end = **AAAAAAB**

=> Ans - (D)

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Question 42

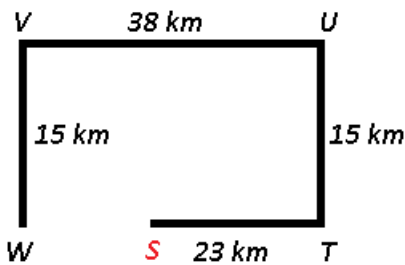
A goods carrier travels 23 km East, then it turns North and travels 15 km, then it turns West and Travels 38 km, then it turns to its left and travels 15 km. Where is it now with reference to its starting position?

- A 61 km West
- B 15 km East
- C 61 km East
- D 15 km West

Answer: D

Explanation:

Let the goods carrier starts from point S and travels 23 km East to T, then it turns North and travels 15 km to reach U, then it turns West and travels 38 km to reach V, again it turns to its left and travels 15 km southwards to finally stop at point W.



=> $WS = 38 - 23 = 15 \text{ km}$

∴ Now it is **15 km west** with reference to its starting position.

=> Ans - (D)

Question 43

In the question two statements are given, followed by two conclusions, I and II. You have to consider the statements to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.

Statement I: All brushes are brooms

Statement II: All mops are brushes

Conclusion I: All brooms are mops

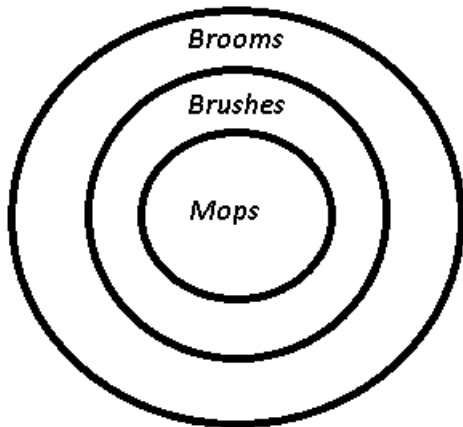
Conclusion II: All mops are brooms

- A Only conclusion I follows
- B Only conclusion II follows
- C Both conclusions I and II follow
- D Neither conclusion I nor conclusion II follows

Answer: B

Explanation:

The venn diagram for above statements is :



Conclusion I: All brooms are mops = false

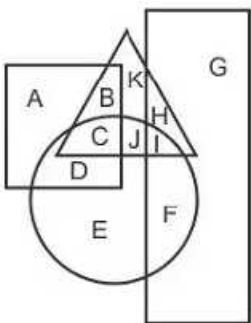
Conclusion II: All mops are brooms = true

Thus, only conclusion II follows.

=> Ans - (B)

Question 44

In the following figure, rectangle represents Dieticians, circle represents Floral designers, triangle represents Gardeners and square represents Asians. Which set of letters represents Floral designers who are not Gardeners?



A BKH

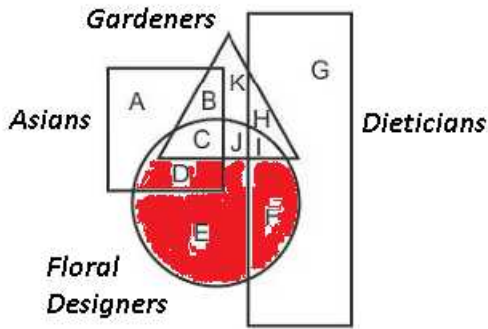
B ABC

C DEF

D GHI

Answer: C

Explanation:



Floral designers who are not Gardeners are represented by = DEF

=> Ans - (C)

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Question 45

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
PMA, RPE, TSI, VVM, ?

A YZR

B VWO

C XYQ

D ACS

Answer: C

Explanation:

Series : PMA, RPE, TSI, VVM, ?

The pattern followed in each letter of the terms is :

1st letter : P (+2 letters) = R (+2 letters) = T (+2 letters) = V (+2 letters) = X

2nd letter : M (+3 letters) = P (+3 letters) = S (+3 letters) = V (+3 letters) = Y

3rd letter : A (+4 letters) = E (+4 letters) = I (+4 letters) = M (+4 letters) = Q

Thus, missing term = XYQ

=> Ans - (C)

Question 46

In the following question, select the missing number from the given series.
67, 80, 93, ?, 119, 132

A 108

B 106

C 114

D 112

Answer: B

Explanation:

'13' is added to all the numbers.

$$67 + 13 = 80$$

$$80 + 13 = 93$$

$$93 + 13 = \mathbf{106}$$

$$106 + 13 = 119$$

$$119 + 13 = 132$$

=> Ans - (B)

Question 47

In the following question, four groups of three numbers are given. In each group the second and third number are related to the first number by a Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

A (4, 16, 64)

B (5, 25, 125)

C (6, 36, 216)

D (7, 49, 243)

Answer: D

Explanation:

The numbers are of the form : (x, x^2, x^3)

But in the last option, we have $= 7^3 = 343 \neq 243$

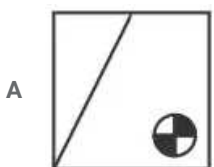
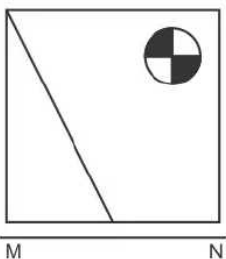
Thus, (7, 49, 243) is the odd one out.

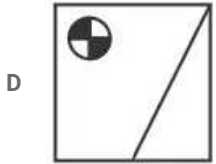
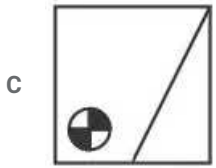
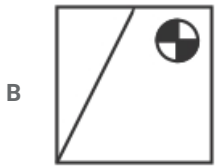
=> Ans - (D)

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Question 48

If a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure?





Answer: A

Explanation:

A horizontal mirror is placed, so the object on the top will appear at the bottom in reverse position and vice-versa.

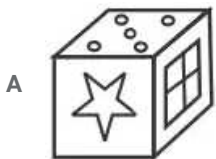
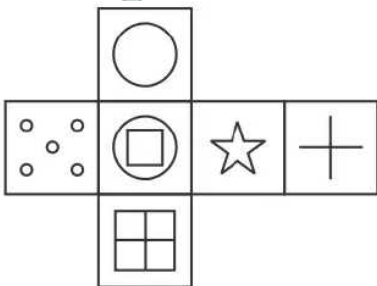
So the slanted line top left will now start from bottom left, thus the last two options will be eliminated.

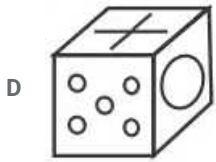
Also, in the question figure, the circle at top right will appear at bottom right side, hence first option is the right image.

=> Ans - (A)

Question 49

Which of the following cube in the answer figure cannot be made based on the unfolded cube in the question figure?

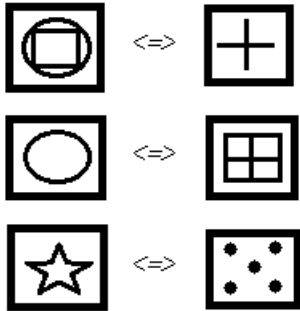




Answer: A

Explanation:

When we fold the given figure, the square inside the circle will become the base of the cube and the side with only '+' sign will become top, and thus they will face each other. Similarly, the sides which will face each other will be :



Since, the opposite sides cannot be adjacent in the cube, thus the cube in the first option is not possible.

=> Ans - (A)

Question 50

A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as shown in the given two matrices. The columns and rows of Matrix-I are numbered from 0 to 4 and that of Matrix-II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, for example 'A' can be represented by 30, 41 etc and 'W' can be represented by 65, 97 etc. Similarly, you have to identify the set for the word 'QUIT'.

Matrix - I					
	0	1	2	3	4
0	C	F	I	K	E
1	C	J	G	E	J
2	E	D	L	K	F
3	A	H	B	C	M
4	I	A	B	G	L

Matrix - II					
	5	6	7	8	9
5	Y	Q	V	N	O
6	W	V	U	R	X
7	T	Q	W	V	T
8	V	O	R	Z	O
9	P	U	W	Y	O

A 42,79,23,57

B 24,86,20,85

C 76,96,40,79

D 31,78,34,88

Answer: C

Explanation:

(A) : 42,79,23,57 = BTKV

(B) : 24,86,20,85 = FOEV

(C) : 76,96,40,79 = **QUIT**

(D) : 31,78,34,88 = HVMZ

=> Ans - (C)

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English

Instructions

In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'.

Question 51

The evolutionary history of penguins (a)/ is well-researched and represents a showcase of (b)/ evolution biogeography. (c)/ No error (d)

- A The evolutionary history of penguins
- B is well-researched and represents a showcase of
- C evolution biogeography
- D No error

Answer: C

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Question 52

It was by real sorrow (a)/ that I heard this morning (b)/ of your great loss. (c)/ No error (d)

- A It was by real sorrow
- B that I heard this morning
- C of your great loss
- D No error

Answer: A

Instructions

In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

Question 53

Angela was _____ of that big mansion.

- A terrified
- B moisturised
- C embarrassed
- D sweating

Answer: A

Question 54

_____ great was achieved by an individual without enthusiasm and interest.

- A Nothing
- B Something

C Everything

D Anything

Answer: A

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Instructions

In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word.

Question 55

Jettison

A Keep

B Eject

C Embrace

D Retain

Answer: B

Question 56

Prolific

A Dead

B Productive

C Famous

D Evidence

Answer: B

Instructions

In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word.

Question 57

Purloin

A Steal

B Filch

C Lift

D Compensate

Answer: D

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Question 58

Flord

- A Busy
- B Plain
- C Flowery
- D Pretentious

Answer: B

Instructions

For the following questions answer them individually

Question 59

Rearrange the parts of the sentence in correct order.

The economic

P : a country leads to exponential

Q : growth of that country

R : empowerment of women of

- A PRQ
- B PQR
- C RPQ
- D RQP

Answer: C

Question 60

A sentence has been given in Active/Passive Voice. Out of the four given alternatives, select the one which best expresses the same sentence in Passive/Active Voice.

The commotion terrified her.

- A She was terrified.
- B She is terrified of commotion.
- C She terrified by the commotion.
- D She was terrified by the commotion.

Answer: D

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Question 61

A sentence has been given in Direct/Indirect Speech. Out of the four given alternatives, select the one which best expresses the same sentence in Indirect/Direct Speech.

I said to Ajay, "Will you lend me some money?"

- A I told Ajay to lend me some money.
- B I said to Ajay if he would give me some money.

- C I asked Ajay if he would lend me some money.
- D I asked Ajay if he would give me some money or not.

Answer: C

Question 62

In the following question, a word has been written in four different ways out of which only one is correctly spelt. Select the correctly spelt word.

- A Meidieval
- B Medieval
- C Medeival
- D Medieवल

Answer: B

Instructions

In the following passage, some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives.

It is basic to a democracy that its citizens remain in harmony _____ one another. At the very least, they should _____ treat each other as enemies. Enmity is spread only by vested interests that hope to thrive _____ polarising citizens. The _____ between professed love for the country and infecting the people with hatred remains ignored. There is no instance in history of the policy of 'divide and rule' _____ people's welfare.

Question 63

remain in harmony _____ one another.

- A to
- B at
- C each
- D with

Answer: D

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Question 64

they should _____ treat each other

- A no
- B neither
- C not
- D nor

Answer: C

Question 65

hope to thrive _____ polarising citizens

- A so
- B as
- C by
- D like

Answer: C

Question 66

The _____ between professed love

- A incompatible
- B in compatibility
- C in compatible
- D incompatibility

Answer: D

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Question 67

'divide and rule' _____ people's welfare.

- A promote
- B promotion
- C promoted
- D promoting

Answer: D

Instructions

In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.

Question 68

Blessing in disguise

- A Good fortune always follows bad; that is the way of fate.
- B An apparent misfortune that eventually has good results.
- C If a curse makes one stronger than it is a blessing.
- D A life of hardship does wonders for a person's character.

Answer: B

Question 69

A picture paints a thousand words

- A An image of a subject conveys its meaning more effectively than a description does.
- B No words can do justice to a masterpiece.
- C A great poem or script recreates a complete imagery.
- D Your mind will create fanciful images based on the information that it gets.

Answer: A

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Instructions

In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.

Question 70

Working-class people regarded collectively

- A Opulent
- B Proletariat
- C Gilded
- D Affluent

Answer: B

Question 71

A long, angry speech of criticism or accusation

- A Obeisance
- B Panegyric
- C Homage
- D Tirade

Answer: D

Instructions

In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select "no improvement".

Question 72

The Buddha (was consumed) by the human suffering that he saw all around him.

- A was consume
- B was consuming
- C were consumed
- D no improvement

Answer: D

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Question 73

This unresponsive attitude by people must (has hurt) him.

- A have hurt
- B have hurting
- C have has hurt
- D no improvement

Answer: A

Instructions

For the following questions answer them individually

Question 74

The question below consists of a set of labelled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph.

- Rest assured that water
- A-stop plunging if there are too
- B-many people around
- C-in the Nohkhalikai falls will not

- A BCA
- B CAB
- C BAC
- D ACB

Answer: B

Question 75

In the following question, four words are given out of which one word is correctly spelt. Select the correctly spelt word.

- A scrupulus
- B scruppulous
- C scruppulus
- D scrupulous

Answer: D

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General Awareness

Instructions

For the following questions answer them individually

Question 76

Buyer's market denotes the place where _____.

- A the demand exceed the supply
- B the supply exceed the demand
- C commodities are available at competitive rates
- D the demand and supply are well balanced

Answer: A

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Question 77

State with maximum production of coffee in India is _____.

- A Karnataka
- B Kerala
- C Maharashtra
- D Tamil Nadu

Answer: A

Question 78

Which of the following is NOT an example of intermontane plateau?

- A Plateau of Tibet
- B Columbia Plateau
- C Patagonia Plateau
- D Bolivian Plateau

Answer: C

Question 79

Tawa river is the tributary of?

- A Narmada
- B Tapi
- C Chambal
- D Yamuna

Answer: A

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Question 80

The Sanskrit poet Rajshekhar lived in the court of _____.

- A Mahipala I
- B Dharmapala
- C Bhoja
- D Devpala II

Answer: A

Question 81

Which of the following Mughal rulers started 'Jharokha Darshan'?

- A Babar
- B Humayun
- C Akbar
- D Jahangir

Answer: C

Question 82

Who of the following is a world famous flute player?

- A Pandit Ravi Shankar
- B Shivkumar Sharma
- C Zakir Hussain
- D Hariprasad Chaurasia

Answer: D

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Question 83

With which country India has signed an agreement in September 2017 for co-operation in health sector?

- A Indonesia
- B Norway
- C France
- D Denmark

Answer: B

Question 84

Who among the following was honored with the "Hridaynath Mangeshkar Award-2017" in October 2017?

- A Salim Khan
- B Javed Akhtar
- C Nana Patekar
- D Mahesh Bhatt

Answer: B

Question 85

Pakistan is located in which direction of India?

- A East
- B West
- C East-North
- D West-North

Answer: D

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Question 86

If an atom has atomic number 10 and mass number 23, then what will be the number of protons and neutrons in an atom respectively?

- A 10, 10
- B 10, 23
- C 13, 10
- D 10, 13

Answer: D

Question 87

While cooking, if the bottom of the vessel is getting blackened on the outside, it means that _____.

- A the food is not cooked completely
- B the fuel is not burning completely
- C the fuel is wet
- D the fuel is burning completely

Answer: B

Question 88

Temporary Provisions with respect to the state of Jammu and Kashmir is given in which Article of Indian Constitution?

- A Article 350

- B Article 360
- C Article 370
- D Article 380

Answer: C

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Question 89

Which among the following writs can be issued against any private individual?

- I. Certiorari
- II. Prohibition
- III. Habeas Corpus

- A Only III
- B Both I and III
- C Both II and III
- D No option is correct.

Answer: A

Question 90

Which type of epithelial tissue forms the lining of kidney tubules and ducts of salivary glands, where it provides mechanical support?

- A Simple squamous epithelial
- B Stratified squamous epithelial
- C Ciliated columnar epithelial
- D Cuboidal epithelial

Answer: D

Question 91

The cell walls of many organisms of Fungi kingdom are made of a tough complex sugar called _____.

- A Pectin
- B Suberin
- C Cellulose
- D Chitin

Answer: D

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Question 92

In November 2017, who launched 'Grahak Sadak Koyla Vitaran App' that aims to benefit customers of Coal India Limited (CIL)?

- A R. K. Singh
- B Suresh Prabhu
- C Naredra Singh Tomar
- D Piyush Goyal

Answer: D

Question 93

What is the name of the asteroid that causes Geminid meteor shower display around 15 December of every year?

- A 3 Juno
- B 3200 Phaethon
- C 511 Davida
- D 5200 Europa

Answer: B

Question 94

In October 2017, RBI planned to make _____ compulsory for companies having aggregate exposure over Rs 5 crore.

- A Index Identifier
- B Economic Fund Identifier
- C Legal Entity Identifier
- D No option is correct.

Answer: C

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Question 95

On January 16, 2018 the Supreme Court ruled the attacks and interference on adults opting for inter-caste marriage as 'absolutely illegal' in the petition filed by which NGO in 2010?

- A PRATHAM
- B Shakti Vahini
- C Goonj
- D Sammaan

Answer: B

Question 96

Find the acceleration ($in\ m/s^2$) produced in a body of mass 2 kg when a force of 8 N is applied on it.

- A 4

- B 16
- C 8
- D 32

Answer: A

Question 97

An object having a capability to do work is said to possess _____.

- A force
- B moment
- C momentum
- D energy

Answer: D

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Question 98

The ozone layer protects us from harmful _____ rays of the sun.

- A infrared
- B cosmic
- C gamma
- D ultraviolet

Answer: D

Question 99

Which of the statements given below are correct?

- A) In 2017, Michael Carrick captained the Premier League team Manchester United.
- B) Sergio García won the Golf 2017 ANA Inspiration.
- C) In 2018 IPL auctions, Kolkata Knight Riders retained Axar Patel.

- A Only A
- B Both B and C
- C Both A and B
- D None of these

Answer: A

Question 100

In MS-Excel, _____ are an excellent tool to present data in a worksheet in a visually appealing format which aids in analyzing and comparing data.

- A Charts
- B Mail merge
- C Outline
- D Tables

Answer: A

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