

SSC CHSL 4 March 2018 Evening Shift

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Quant

Instructions

For the following questions answer them individually

Question 1

Simplify: $b - [b - (a + b) - b - (b - a - b) + 2b]$

A 2b

B 1

C 0

D 3b

Answer: C

Explanation:

$$\text{Expression : } b - [b - (a + b) - b - (b - a - b) + 2b]$$

$$= b - [(b - a - b) + (-b - b + a + b) + 2b]$$

$$= b - [-a - b + a + 2b]$$

$$= b - b = 0$$

\Rightarrow Ans - (C)

Question 2

Simplify: $(213 \times 213 + 187 \times 187)$

A 80338

B 80438

C 60338

D 60438

Answer: A

Explanation:

$$\text{Expression : } (213 \times 213 + 187 \times 187)$$

$$= (200 + 13)^2 + (200 - 13)^2$$

$$\begin{aligned}
 &= [(200)^2 + (13)^2 + 2(200)(13)] + [(200)^2 + (13)^2 - 2(200)(13)] \\
 &= [2 \times (200)^2] + [2 \times (13)^2] \\
 &= 80000 + 338 = 80338
 \end{aligned}$$

=> Ans - (A)

Question 3

What is the remainder, when $4x^2 - 10x^2 - 20x^2 - 90$ is divided by $(x - 2)$?

- A 0
- B 6
- C 45
- D 90

Answer: B

Question 4

What will be the value of xy , if $x^2 + y^2 = 45$ and $x - y = 5$?

- A 10
- B 15
- C 20
- D 25

Answer: A

Explanation:

Given : $x^2 + y^2 = 45$ ----- (i)

Also, $x - y = 5$

Squaring both sides, we get :

$$\Rightarrow (x - y)^2 = (5)^2$$

$$\Rightarrow x^2 + y^2 - 2xy = 25$$

Substituting value from equation (i),

$$\Rightarrow 45 - 2xy = 25$$

$$\Rightarrow 2xy = 45 - 25 = 20$$

$$\Rightarrow xy = \frac{20}{2} = 10$$

=> Ans - (A)

Question 5

The smallest angle of a triangle is 40° less than the largest angle. If the largest angle is 80° , then find third angle of the triangle.

- A 40°
- B 90°
- C 80°
- D 60°

Answer: D

Explanation:

Largest angle of triangle = 80°

=> Smallest angle = $80^\circ - 40^\circ = 40^\circ$

Let third angle = θ

Thus, sum of the three angle = $\theta + 80^\circ + 40^\circ = 180^\circ$

=> $\theta = 180^\circ - 120^\circ = 60^\circ$

=> Ans - (D)

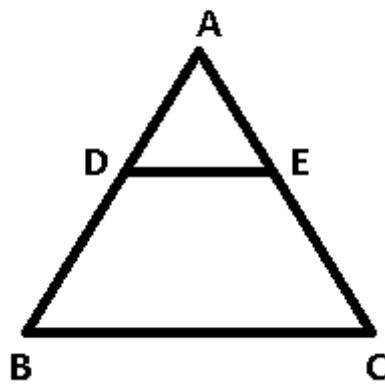
Question 6

If the line DE is drawn parallel to the base BC of a triangle ABC by intersecting the other two sides, then which of the following is the CORRECT equation for this case.

- A $AB/DB = AC/EC$
- B $AD/AB = DB/EC$
- C $AD/DB = EC/AE$
- D $AD/DB = AE/EC$

Answer: D

Explanation:



Given : DE is parallel to BC

In $\triangle ABC$ and $\triangle ADE$,

$\angle ABC = \angle ADE$ (corresponding angles)

$\angle ACB = \angle AED$ (corresponding angles)

Thus, $\angle ABC \sim \angle ADE$

$$\therefore \frac{AB}{AD} = \frac{AC}{AE}$$

Using componendo and dividendo, we have = $\frac{AD}{DB} = \frac{AE}{EC}$

=> Ans - (D)

Question 7

Price of 1 kg of sugar is increased by 30% and the increase is of Rs 48. What is the new price (in Rs) of sugar per kg?

A 178

B 160

C 208

D 216

Answer: C

Explanation:

Let original price of sugar = Rs. $100x$

Increase in price = 30%

$$\Rightarrow \text{New price} = 100x + \left(\frac{30}{100} \times 100x \right) = \text{Rs. } 130x$$

According to ques,

$$\Rightarrow 100x + 48 = 130x$$

$$\Rightarrow 130x - 100x = 30x = 48$$

$$\Rightarrow x = \frac{48}{30} = 1.6$$

\therefore New price = $130 \times 1.6 = \text{Rs. } 208$

=> Ans - (C)

Question 8

The sum of three numbers is 67. If the ratio of the first number to the second number is 3 : 5 and that of second number to the third number is 4 : 7, then what is the second number?

- A 20
- B 24
- C 18
- D 16

Answer: A

Explanation:

Ratio of first number to second number = 3 : 5 and ratio of the second number to the third number = 4 : 7

Multiplying first equation by 4 and second equation by 5 to make the second (common) term equal.

Let first number be = $12x$, second number = $20x$ and third number = $35x$

$$\Rightarrow \text{Sum} = 12x + 20x + 35x = 67x = 67$$

$$\Rightarrow x = \frac{67}{67} = 1$$

$$\therefore \text{Second number} = 20 \times 1 = 20$$

=> Ans - (A)

Question 9

A started a business with the capital of Rs 1800. After 4 months B joined with Rs 3600. 6 months after business started C joined with Rs 1200. If the total profit earned at the end of the year is Rs 1760, then is the share (in Rs) of A?

- A 540
- B 660
- C 840
- D 720

Answer: B

Explanation:

Amount invested by A = Rs. 1800 for 12 months

Amount invested by B = Rs. 3600 for 8 months

Amount invested by C = Rs. 1200 for 6 months

$$\Rightarrow \text{Ratio of profit of A:B:C} = (1800 \times 12) : (3600 \times 8) : (1200 \times 6)$$

$$= 216 : 288 : 72 = 3 : 4 : 1$$

Total profit = Rs. 1760

$$\therefore \text{A's share} = \frac{3}{(3+4+1)} \times 1760$$

$$= 3 \times 220 = \text{Rs. } 660$$

\Rightarrow Ans - (B)

Question 10

The average of 8 consecutive integers is $23/2$. What is the average of first three integers?

A 9

B $19/2$

C 8

D 10

Answer: A

Explanation:

Let the 8 consecutive integers be = $(x), (x+1), (x+2), (x+3), (x+4), (x+5), (x+6)$ and $(x+7)$

$$\text{Sum of integers} = (x) + (x+1) + (x+2) + (x+3) + (x+4) + (x+5) + (x+6) + (x+7) = \frac{23}{2} \times 8$$

$$\Rightarrow 8x + 28 = 92$$

$$\Rightarrow 8x = 92 - 28 = 64$$

$$\Rightarrow x = \frac{64}{8} = 8$$

$$\therefore \text{Average of first three integers} = \frac{(8)+(8+1)+(8+2)}{3} = \frac{27}{3} = 9$$

\Rightarrow Ans - (A)

Question 11

Simple interest on a sum for eight months at 6% per annum is Rs 340. What is the value (in Rs) of sum?

- A 8500
- B 9500
- C 8000
- D 6800

Answer: A

Explanation:

Let principal amount = Rs. x

Rate of interest = 6% and time period = $\frac{8}{12} = \frac{2}{3}$ years

$$\Rightarrow \text{Simple interest} = \frac{P \times R \times T}{100}$$

$$\Rightarrow \frac{x \times 6 \times 2}{3 \times 100} = 340$$

$$\Rightarrow \frac{x}{25} = 340$$

$$\Rightarrow x = 340 \times 25 = \text{Rs. } 8,500$$

\Rightarrow Ans - (A)

Question 12

A trader sells wire and gains 60% on the cost price. What will be the profit percentage on selling price?

- A 33.33
- B 40
- C 60
- D 37.5

Answer: D

Explanation:

Let cost price = Rs. 100

$$\text{Profit} = \frac{60}{100} \times 100 = \text{Rs. } 60$$

$$\Rightarrow \text{Selling price} = 100 + 60 = \text{Rs. } 160$$

$$\therefore \text{Profit percentage on selling price} = \frac{60}{160} \times 100$$

$$= \frac{3}{8} \times 100 = 37.5\%$$

\Rightarrow Ans - (D)

Question 13

Marked price of an article is Rs 520 and selling price is Rs 384.8. What is the discount percentage?

- A 26
- B 24.42
- C 35.13
- D 29

Answer: A

Explanation:

Marked price = Rs. 520

Selling price = Rs. 384.8

$$\Rightarrow \text{Discount \%} = \frac{(520-384.8)}{520} \times 100 \\ = \frac{1352}{52} = 26\%$$

\Rightarrow Ans - (A)

Question 14

What is the value of $\frac{5}{\sqrt{2+1}} + \frac{5}{\sqrt{3+\sqrt{2}}} + \frac{5}{\sqrt{4+\sqrt{3}}} + \dots + \frac{5}{\sqrt{121+\sqrt{120}}}?$

- A 25
- B 50
- C 100
- D 75

Answer: B

Explanation:

$$\text{Expression : } \frac{5}{\sqrt{2+1}} + \frac{5}{\sqrt{3+\sqrt{2}}} + \frac{5}{\sqrt{4+\sqrt{3}}} + \dots + \frac{5}{\sqrt{121+\sqrt{120}}}$$

Rationalizing the denominator, we get :

$$= \left(\frac{5}{\sqrt{2+1}} \times \frac{\sqrt{2-1}}{\sqrt{2-1}} \right) + \left(\frac{5}{\sqrt{3+\sqrt{2}}} \times \frac{\sqrt{3-2}}{\sqrt{3-2}} \right) + \left(\frac{5}{\sqrt{4+\sqrt{3}}} \times \frac{\sqrt{4-\sqrt{3}}}{\sqrt{4-\sqrt{3}}} \right) + \dots + \left(\frac{5}{\sqrt{121+\sqrt{120}}} \times \frac{\sqrt{121-\sqrt{120}}}{\sqrt{121-\sqrt{120}}} \right)$$

Using, $(a-b)(a+b) = a^2 - b^2$

$$= \frac{5 \times (\sqrt{2-1})}{(2-1)} + \frac{5 \times (\sqrt{3-\sqrt{2}})}{(3-2)} + \frac{5 \times (\sqrt{4-\sqrt{3}})}{(4-3)} + \dots + \frac{5 \times (\sqrt{121-\sqrt{120}})}{(121-120)}$$

Thus, after cancelling the positive and negative terms alternatively, we are left with :

$$= -5 + 5(\sqrt{121}) = -5 + 55 = 50$$

=> Ans - (B)

Question 15

Ram and Shyam undertook a work for Rs 5600. Ram alone can do the work in 5 days and Shyam alone do the work in 9 days. If they work together, then what will be the difference (in Rs.) in the amount they receive?

- A 1800
- B 2400
- C 2200
- D 1600

Answer: D

Explanation:

Ram alone can do the work in 5 days and Shyam alone can do the work in 9 days.

=> Efficiency of work done by Ram : Shyam = 9 : 5

$$\text{Thus, difference in amount received by them} = \frac{(9-5)}{9+5} \times 5600 \\ = 4 \times 400 = \text{Rs. } 1600$$

=> Ans - (D)

Question 16

A man covered a certain distance by a train at the speed of 40 km/hr and covers the same distance back walking at the speed of 8 km/hr. If the whole journey took 12 hours, then what is the one side distance (km)?

- A 80
- B 60
- C 90
- D 100

Answer: A

Explanation:

Let total distance covered (both sides) = $2d$ km

Speed of train = 40 km/hr and walking speed = 8 km/hr

Using, time = distance/speed

$$\Rightarrow \frac{d}{40} + \frac{d}{8} = 12$$

$$\Rightarrow \frac{6d}{40} = 12$$

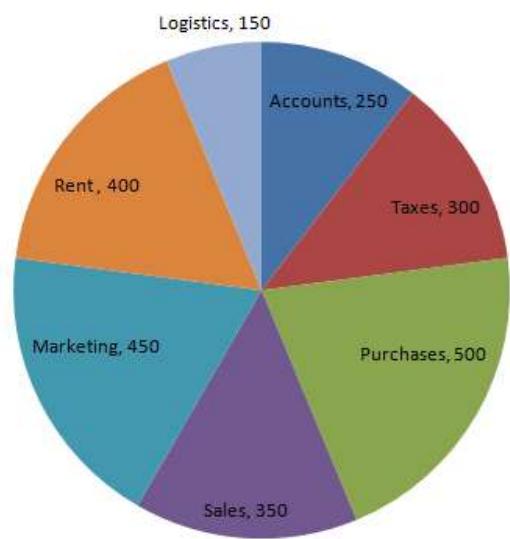
$$\Rightarrow d = 12 \times \frac{40}{6} = 80 \text{ km}$$

\Rightarrow Ans - (A)

Instructions

The pie chart shows the breakup of expenditure of a trading company for the year 2017. Study the diagram and answer the following questions.

Expenditure (in lakhs)



Question 17

The second highest expenditure is for which item?

- A Rent
- B Marketing
- C Logistics
- D Accounts

Answer: B

Explanation:

The second highest expenditure is for **Marketing** = Rs. 450 lakhs

\Rightarrow Ans - (B)

Question 18

What is the total expenditure (in Rs lakhs) ?

A 2200

B 2400

C 2100

D 2000

Answer: B

Explanation:

Total expenditure (in Rs lakhs)

$$= 250 + 300 + 500 + 350 + 450 + 400 + 150$$

$$= 2400$$

\Rightarrow Ans - (B)

Question 19

The measure of the central angle of the sector representing Rent is _____ degrees.

A 50

B 60

C 75

D 40

Answer: B

Explanation:

Expenditure in rent (in Rs lakhs) = 400

Total expenditure (in Rs lakhs)

$$= 250 + 300 + 500 + 350 + 450 + 400 + 150 = 2400$$

$$\Rightarrow \text{Required central angle} = \frac{400}{2400} \times 360^\circ$$

$$= \frac{360^\circ}{6} = 60^\circ$$

\Rightarrow Ans - (B)

Question 20

Expenditure on Sales and Marketing constitute what percent of total expenditure?

A 30%

B 36%

C 27.5%

D 33.33%

Answer: D

Explanation:

Expenditure on Sales and Marketing (in Rs lakhs) = $350 + 450 = 800$

Total expenditure (in Rs lakhs)

$$= 250 + 300 + 500 + 350 + 450 + 400 + 150 = 2400$$

$$\Rightarrow \text{Required \%} = \frac{800}{2400} \times 100$$

$$= \frac{100}{3} = 33.33\%$$

\Rightarrow Ans - (D)

Instructions

For the following questions answer them individually

Question 21

The side of an equilateral triangle is 8 cm. Find its area (in cm)

A $25\sqrt{3}$

B $16\sqrt{2}$

C $25\sqrt{2}$

D $16\sqrt{3}$

Answer: D

Explanation:

Side of equilateral triangle = $s = 8$ cm

$$\Rightarrow \text{Area} = \frac{\sqrt{3}}{4} s^2$$

$$= \frac{\sqrt{3}}{4} \times (8)^2$$

$$= \sqrt{3} \times 16 = 16\sqrt{3} \text{ cm}^2$$

\Rightarrow Ans - (D)

Question 22

The area of a circle is 346.5 cm². Find its circumference (in cm).

A 132

B 38

C 66

D 76

Answer: C

Explanation:

Let the radius of circle = r cm

$$\Rightarrow \text{Area} = \pi r^2 = 346.5$$

$$\Rightarrow \frac{22}{7} \times r^2 = 346.5$$

$$\Rightarrow r^2 = 346.5 \times \frac{7}{22} = 110.25$$

$$\Rightarrow r = \sqrt{110.25} = 10.5 \text{ cm}$$

$$\therefore \text{Circumference} = 2\pi r$$

$$= 2 \times \frac{22}{7} \times 10.5$$

$$= 44 \times 1.5 = 66 \text{ cm}$$

\Rightarrow Ans - (C)

Question 23

Find the total surface area (in cm²) of a cube of side 7.5 cm.

A 364.5

B 446

C 337.5

D 684

Answer: C

Explanation:

Side of cube, $a = 7.5$ cm

$$\Rightarrow \text{Total surface area} = 6a^2$$

$$= 6 \times (7.5)^2 = 337.5 \text{ cm}^2$$

=> Ans - (C)

Question 24

What is the value of $45^\circ + \frac{1}{\sqrt{2}}$

A $5\sqrt{3}$

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

C $(\sqrt{2} + 1)\sqrt{2}$

D $4/\sqrt{3}$

Answer: C

Explanation:

$$\text{Expression : } \tan(45^\circ) + \frac{1}{\sqrt{2}}$$

$$= 1 + \frac{1}{\sqrt{2}}$$

$$= \frac{\sqrt{2}+1}{\sqrt{2}}$$

=> Ans - (C)

Question 25

ΔPQR is right angled at Q. If $\text{cosec P} = 17/15$, then what is the value of $\sin R$?

A $15/17$

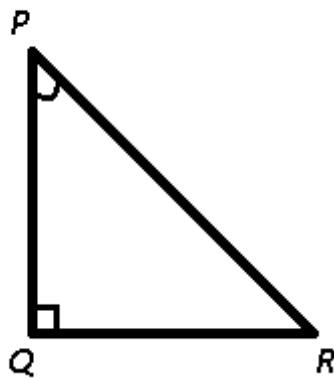
B $8/17$

C $17/8$

D $17/15$

Answer: B

Explanation:



Given : $\text{cosec } P = \frac{17}{15}$

$$\Rightarrow \sin P = \frac{QR}{PR} = \frac{15}{17}$$

Let QR = 15 cm and PR = 17 cm

$$\text{Thus, in } \triangle PQR, \Rightarrow (PQ)^2 = (PR)^2 - (QR)^2$$

$$\Rightarrow (PQ)^2 = (17)^2 - (15)^2$$

$$\Rightarrow (PQ)^2 = 289 - 225 = 64$$

$$\Rightarrow PQ = \sqrt{64} = 8 \text{ cm}$$

$$\text{To find : } \sin R = \frac{PQ}{PR}$$

$$= \frac{8}{17}$$

\Rightarrow Ans - (B)

Reasoning

Instructions

For the following questions answer them individually

Question 26

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

Lotus : Flower :: ? : ?

A Rabbit : White

B Peacock : Bird

C Crow : Flies

D Krishna : Speak

Answer: B

Explanation:

Expression = Lotus : Flower :: ? : ?

The first comes under the category of second, i.e. Lotus is a flower, similarly peacock is a bird.

=> Ans - (B)

Question 27

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

13 : 167 :: 23 : ?

- A** 527
- B** 525
- C** 531
- D** 532

Answer: A

Explanation:

Expression = 13 : 167 :: 23 : ?

The pattern followed is = $x : (x^2 - 2)$

Eg :- $13 : (13^2 - 2) = 13 : 167$

Similarly, $(23)^2 - 2 = 529 - 2 = 527$

=> Ans - (A)

Question 28

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

PIR : OHQ :: ? : ?

- A** KLO : MOR
- B** LNT : JLQ
- C** FAX : EZW
- D** KMN : LNO

Answer: C

Explanation:

Expression = PIR : OHQ :: ? : ?

The pattern followed is :

P	I	R
(-1)	(-1)	(-1)
O	H	Q

Similar pattern is observed only in :

F	A	X
(-1)	(-1)	(-1)
E	Z	W

=> Ans - (C)

Question 29

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

- A Carnivorous - Tiger
- B Herbivorous - Cow
- C Rabbit - Herbivorous
- D Carnivorous - Dog

Answer: C

Explanation:

First is the characteristic of the second.

Tiger and Dog are carnivorous and cow are herbivorous. Although, rabbit are also herbivorous, but the order is incorrect.

=> Ans - (C)

Question 30

In the following question, four number pairs are given. The number on left side of (-) is related to the number of 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 8 - 64
- B 6 - 36
- C 4 - 16
- D 2 - 12

Answer: D

Explanation:

The second number is the square of the first number.

$$(8)^2 = 64$$

$$(6)^2 = 36$$

$$(4)^2 = 16$$

$$(2)^2 = 4 \neq 12$$

\Rightarrow Ans - (D)

Question 31

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

A SW

B GK

C FJ

D DG

Answer: D

Explanation:

(A) : S (+4 letters) = W

(B) : G (+4 letters) = K

(C) : F (+4 letters) = J

(D) : D (+3 letters) = G

\Rightarrow Ans - (D)

Question 32

From the given alternatives, according to dictionary, which word will come at FIRST position?

1. Clause
2. Cigar
3. Clever
4. Cinema
5. Client

A Cinema

B Client

C Cigar

D Clause

Answer: C

Explanation:

As per the order of dictionary :

= Cigar -> Cinema -> Clause -> Clever -> Client

Thus, first word is **Cigar**

=> Ans - (C)

Question 33

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

34, 69, 140, 283, ?, 1145

A 440

B 545

C 570

D 625

Answer: C

Explanation:

The pattern followed is :

$$34 \times 2 + 1 = 69$$

$$69 \times 2 + 2 = 140$$

$$140 \times 2 + 3 = 283$$

$$283 \times 2 + 4 = 570$$

$$570 \times 2 + 5 = 1145$$

=> Ans - (C)

Question 34

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

CX, EV, GT, IR, ?

A LP

B LQ

C KP

D KQ

Answer: C

Explanation:

Series : CX, EV, GT, IR, ?

The pattern followed in each letter of the terms is :

1st letter : C (+2 letters) = E (+2 letters) = G (+2 letters) = I (+2 letters) = K

2nd letter : X (-2 letters) = V (-2 letters) = T (-2 letters) = R (-2 letters) = P

Thus, missing term = **KP**

=> Ans - (C)

Question 35

In a row of boys, Rahul is 19th from top and Ajay is 21st from bottom. They interchange their position. now becomes 28th from bottom. How many total boys are there in the row?

A 47

B 46

C 45

D 48

Answer: B

Explanation:

Rahul's position from top = 19th

When Ajay goes to Rahul's position, Ajay's new position = 28th from bottom = Rahul's original position

=> Total number of boys = $(19 + 28) - 1 = 46$

=> Ans - (B)

Question 36

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

A Lite

B Able

C Like

D Table

Answer: C

Explanation:

The word LIABILITIES does not contain any 'K', thus the term **Like** cannot be formed.

=> Ans - (C)

Question 37

In a certain code language, "HARMS" is written as "81181319" and "FLUTE" is written as "61221205". Is "WOUND" written in that code language?

A 21144152

B 21441514

C 231521144

D 171921415

Answer: C

Explanation:

The letters are numbered on the basis of their position according to the English alphabetical order. A=1, B=2, C=3, D=4 and so on.

Eg :- HARMS = 8,1,18,13,19 -> 81181319

FLUTE = 6,12,21,20,5 -> 61221205

Similarly, WOUND = 23,15,21,14,4 -> **231521144**

=> Ans - (C)

Question 38

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

$$8 \div 14 - 20 + 5 \times 2 = ?$$

A 46

B 62

C 32

D 14

Answer: B

Explanation:

Expression : $8 \div 14 - 20 + 5 \times 2 = ?$

$$\equiv 8 + 14 \times 20 \div 5 - 2$$

$$= 8 + (14 \times 4) - 2$$

$$= 6 + 56 = 62$$

=> Ans - (B)

Question 39

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

$$6 \times 5 + 20 \div 4 = 31$$

A + and \div

B + and \times

C - and +

D \div and \times

Answer: B

Explanation:

Expression : $6 \times 5 + 20 \div 4 = 31$

(A) : + and \div

$$\equiv 6 \times 5 \div 20 + 4 = 31$$

$$\text{L.H.S.} = \frac{30}{20} + 4 = 5.5 \Rightarrow \text{R.H.S.}$$

(B) : + and \times

$$\equiv 6 + 5 \times 20 \div 4 = 31$$

$$\text{L.H.S.} = 6 + \frac{100}{4} = 6 + 25 = 31 = \text{R.H.S.}$$

=> Ans - (B)

Question 40

If $70 \times 10 = 7$, $50 \times 5 = 10$ and $10 \times 5 = 2$, then find the value of $80 \times 1 = ?$

A 45

B 25

C 20

D 80

Answer: D

Explanation:

Given : $70 \times 10 = 7$, $50 \times 5 = 10$ and $10 \times 5 = 2$

If we replace ' \times ' with ' \div ', then L.H.S. = R.H.S.

Eg :- $\frac{70}{10} = 7$

and $\frac{50}{5} = 10$

and $\frac{10}{5} = 2$

Similarly, $\frac{80}{1} = 80$

\Rightarrow Ans - (D)

Question 41

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

XYXYXYxy, XYXYXyxY, XYXYxyXY, XYXyxYXY, XYxyXYXY, _____.

A xyXYXYXY

B XYXYXYxy

C XYXYXyxY

D XyxYXYXY

Answer: D

Explanation:

Expression : XYXYXYxy, XYXYXyxY, XYXYxyXY, XYXyxYXY, XYxyXYXY, _____.

The pattern followed is that in each term there are 4 combinations of 'XY' and in each term, the last two terms in decreasing order are small alphabets.

Thus, in the missing term, the second and third term will be small = **XyxYXYXY**

\Rightarrow Ans - (D)

Question 42

Two trucks start from the same warehouse. Truck A goes 6 km North, then turns to its right and goes 4 km. In the meanwhile truck B goes 9 km East, then turns North and goes 6 km, then turns to its right and goes 4 km. Where is truck B with respect to truck A?

A 17 km East

B 9 km West

C 17 km West

D 9 km East

Answer: 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: No mirrors are glass

Statement II: No reflective are mirrors

Conclusion I: All glass are reflective

Conclusion II: All reflective are glass

A Only conclusion I follows

B Only conclusion II follows

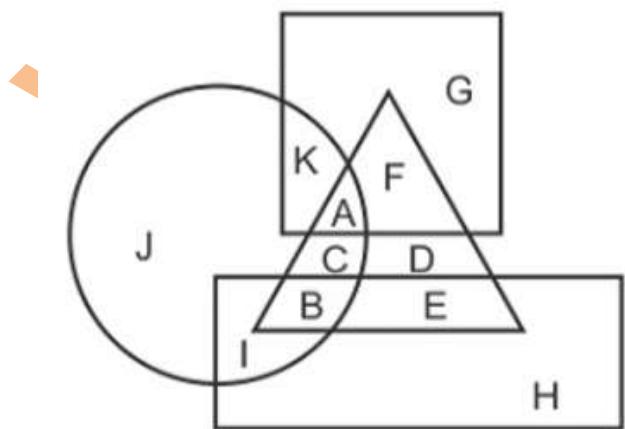
C Both conclusions I and II follow

D Neither conclusion I nor conclusion II follows

Answer: D

Question 44

In the following figure, rectangle represents Copywriters, circle represents Cartoonists, triangle represents Comedians and square represents Mothers. Which set of letters represents Copywriters who are neither Comedians nor Mothers?



A BE

B CD

C AF

D IH

Answer: D

Question 45

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

NIP, KGO, HEN, ECM, ?

A CBM

B BAL

C CAL

D BBM

Answer: B

Explanation:

Series : NIP, KGO, HEN, ECM, ?

The pattern followed in each letter of the terms is :

1st letter : N (-3 letters) = K (-3 letters) = H (-3 letters) = E (-3 letters) = B

2nd letter : I (-2 letters) = G (-2 letters) = E (-2 letters) = C (-2 letters) = A

3rd letter : P (-1 letter) = O (-1 letter) = N (-1 letter) = M (-1 letter) = L

Thus, missing term = **BAL**

=> Ans - (B)

Question 46

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

146, 137, 128, ?, 110, 101

A 123

B 121

C 117

D 119

Answer: D

Explanation:

'9' is subtracted from all the numbers.

$$146 - 9 = 137$$

$$137 - 9 = 128$$

$$128 - 9 = \mathbf{119}$$

$$119 - 9 = 110$$

$$110 - 9 = 101$$

\Rightarrow Ans - (D)

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 (44, 42, 36)

B (56, 54, 48)

C (38, 36, 32)

D (64, 62, 56)

Answer: C

Explanation:

The numbers are of the form : $(x, x - 2, x - 8)$

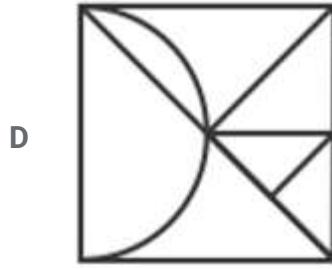
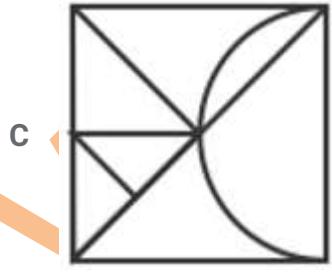
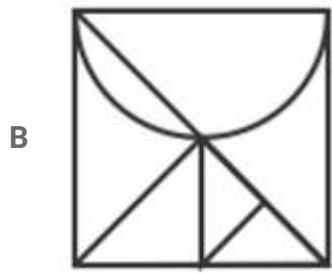
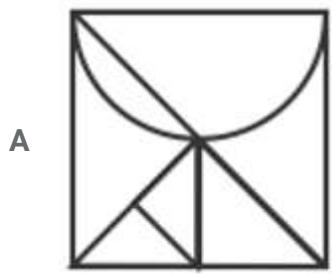
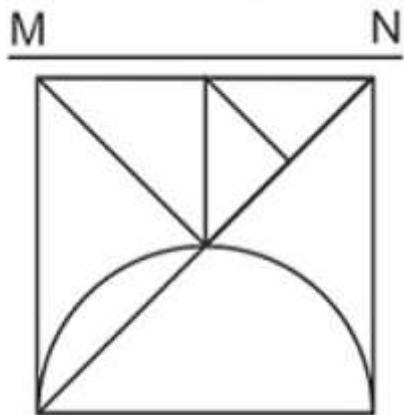
But in the third option, we have = $38 - 8 = 30 \neq 32$

Thus, (38, 36, 32) is the odd one out.

\Rightarrow Ans - (C)

Question 48

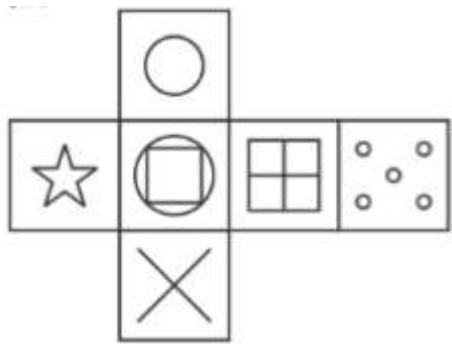
If a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure?



Answer: B

Question 49

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



Answer: D

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 T can be represented by 21, 42 etc and can be represented by 69, 89 etc. Similarly, you have to identify the set for the word 'TENS'.

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

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

- A 95,14,85,78
- B 10,56,24,99
- C 20,96,41,69
- D 24,77,22,78

Answer: A

Explanation:

(A) : 95,14,85,78 = TENS

(B) : 10,56,24,99 = FUHV

(C) : 20,96,41,69 = EWMY

(D) : 24,77,22,78 = HVDS

=> Ans - (A)

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

She was (a)/ quite amusing (b)/ at that story. (c)/ No error (d)

- A** She was
- B** quite amusing
- C** at that story
- D** No error

Answer: B

Question 52

Money bills could only be introduced in the Lok Sabha, (a)/ and upon being passed, are sent to the Rajya Sabha, (b)/ where it can be deliberated upon for upto 14 days. (c)/ No error (d)

- A** Money bills could only be introduced in the Lok Sabha
- B** and upon being passed, are sent to the Rajya Sabha
- C** where it can be deliberated upon for upto 14 days
- 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

I _____ not attend the party.

- A** probably be
- B** will be
- C** won't
- D** shall

Answer: D

Question 54

Happy thoughts release hormones that work for our well-being and negative thoughts release hormones that make us ____.

- A ill
- B happy
- C excited
- D rejuvenated

Answer: A

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

Accolade

- A Silence
- B Mediocrity
- C Laurels
- D Lowliness

Answer: C

Question 56

Invective

- A Invent
- B Expressive
- C Abusive
- D Invitation

Answer: C

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

Elated

- A Inspired
- B Cheered
- C Disheartened
- D Encouraged

Answer: C

Question 58

Baneful

- A Harmful
- B Cruel
- C Disastrous
- D Lucky

Answer: D

Instructions

For the following questions answer them individually

Question 59

- Rearrange the parts of the sentence in correct order.

To many women human rights are

P : foreign to their culture and

Q : of individual and community identity

R : challenge deeply held notions

- A PQR

- B RPQ

C QPR

D PRQ

Answer: D

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.

Some girls were helping the wounded men.

- A** The wounded men were helping some girls.
- B** The wounded men were being helped by some girls.
- C** The wounded men are being helped by some girls.
- D** The wounded men received help from some girls.

Answer: B

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.

Shyam said, "My master is eating."

- A** Shyam inform that his master is eating.
- B** Shyam say that his master is eating.
- C** Shyam and his master was eating.
- D** Shyam said that his master was eating.

Answer: D

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** Asassination

B Assassination

C Assassination

D Assaissination

Answer: C

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.

A little thought will show you how vastly your own _____ depends on the way other people bear themselves toward you. The looks _____ tones at your breakfast-table, the conduct of _____ fellow-workers or employers, the _____ or unreliable men you deal with, what people say to you on the street, the way your cook and housemaid do their work, the letters you get, the friends or foes you meet,-- these things make _____ very much of the pleasure or misery of your day.

Question 63

how vastly your own _____ depends on the way

A happiness

B happy

C happily

D happiest

Answer: A

Question 64

The looks _____ tones at your breakfast-table

A but

B if

C then

D and

Answer: D

Question 65

the conduct of _____ fellow-workers

- A you
- B your
- C them
- D they

Answer: B

Question 66

employers, the _____ or unreliable men

- A faithful
- B faith
- C faithfully
- D faithfulness

Answer: A

Question 67

things make _____ very much of the pleasure

- A up
- B upon
- C above
- D on

Answer: A

Instructions

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

Question 68

At somebody's expense

- A Paid for by someone.
- B To blame a crime on someone else.
- C The unlucky persons who lose a race.
- D If one person benefits it is always at the loss of another.

Answer: A

Question 69

Cock and bull story

- A An implausible story used as an explanation or excuse.
- B A fairy tale told down generations.
- C A story of animals with hidden morals.
- D The meek can defeat the bully by being clever.

Answer: A

Instructions

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

Question 70

An upright bar, post, or frame forming a support or barrier

- A Repose
- B Stanchion
- C Recumbent
- D Supine

Answer: B

Question 71

A routine task, especially a household one

- A Chore
- B Servitude
- C Moil
- D Travail

Answer: A

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

Opening the door to her each morning is like (lets) a breath of fresh air into my world.

- A let
- B to let
- C letting
- D no improvement

Answer: C

Question 73

What seeds you (has sow) in the garden of your mind determine the quality of life you shall have.

- A sowing
- B sow
- C had sow
- D no improvement

Answer: B

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.

If your ward talks

- A-well to convince you, be
- B-social and interpersonal creativity
- C-proud that he or she has

A ABC

B ACB

C CBA

D CAB

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 arbitrates

B arbitrates

C arbetrates

D arbittrates

Answer: B

General Awareness

Instructions

For the following questions answer them individually

Question 76

"Global Competitiveness Report" is released by which of the following organization?

- A WTO
- B WEF
- C SAARC
- D EU

Answer: B

Question 77

Economic planning in India is in_____.

- A Union List
- B State list
- C Concurrent List
- D No option is correct.

Answer: C

Question 78

Which of the following indicates the circle of the Saranath Pillar?

- A Law
- B Revolution
- C Progress
- D Religion

Answer: C

Question 79

Which of the following is related to the Tinkathiya Pratha?

A Champaran

B Kheda

C Bardoli

D Darbhanga

Answer: A

Question 80

The distance between the two latitudes is approximately _____.

A 111 miles

B 121 miles

C 111 km

D 121 km

Answer: C

Question 81

Which place is now known as 'White Water' in India?

A Leh

B Ladakh

C Kargil

D Siachen

Answer: D

Question 82

Leela Samson is associated to which classical dance style?

A Bharatanatyam

B Kathakali

C Kuchipudi

D Odissi

Answer: A

Question 83

At which place a joint military exercise 'Yudh Abhyas' was held in September 2017 between United States and Indian army?

A Pune

B Newyork

C Vishakhapattnam

D Washington

Answer: D

Question 84

Which Bollywood actor was honoured with the 24 th Crystal Award at the world Economic Forum meeting in January 2018?

A Shahrukh Khan

B Aamir Khan

C Salman Khan

D Saif Ali Khan

Answer: A

Question 85

The saffron orange colour of Bhutan's national flag symbolizes _____.

A the authority of the king

B the secular power of the country

C the practice of religion

D the purity of the country

Answer: C

Question 86

How CNG is a cleaner fuel?

- I. It produces oxides of Sulphur and Nitrogen in very small amounts.
- II. It makes environment less polluted.
- III. It emits less greenhouse gases.

- A Only I and II
- B Only II and III
- C Only I and III
- D All I, II and III

Answer: D

Question 87

In a compound the elements are always present in definite proportions by

- A mass
- B volume
- C size
- D No option is correct.

Answer: A

Question 88

The Chief Election Commissioner of India holds the office for _____.

- A 60 years of age or for six years, whichever early
- B 65 years of age or for six years, whichever early
- C 70 year of age or for six years, whichever early
- D 55 year of age or for five years, whichever early

Answer: B

Question 89

The Attorney General of India is the _____ of the Government of India.

- A** Chief Account Officer
- B** Chief Law Officer
- C** Chief Audit Officer
- D** Chief Election Officer

Answer: B

Question 90

Which of the following is a CORRECT relation of length of small intestines of an herbivore and a carnivore?

- A** Herbivore = Carnivore
- B** Herbivore < Carnivore
- C** Herbivore > Carnivore
- D** No option is correct.

Answer: C

Question 91

Limbs of frog, lizard, bird and human are example of _____ organs.

- A** Homogenous
- B** Heterogeneous
- C** Analogous
- D** Homologous

Answer: D

Question 92

Energy Efficiency Services Limited (EESL) launched UJALA scheme in which country in September, 2017?

- A Indonesia
- B Malaysia
- C Maldives
- D Australia

Answer: B

Question 93

India's fastest and first multi - petaflops supercomputer named Pratyush was unveiled at _____.

- A Indian Institute of Science, Bangalore
- B Indian Space Research Organisation, Bangalore
- C Indian Institute of Tropical Meteorology, Pune
- D Indian Institute of Technology, New Delhi

Answer: C

Question 94

In December 2017, SEBI raised the investment limit for FPIs in central government securities to over from January 2018.

- A Rs 1.91 lakh crore
- B Rs 3.91 lakh crore
- C Rs 5.91 lakh crore
- D Rs 0.91 lakh crore

Answer: A

Question 95

On 8 June 2017, Law Ministry cleared the Prevention of Cruelty to Animals (Karnataka Amendment) Bill, 2017. It will help in legislating_____.

- A** Jalikattu
- B** Cockfight
- C** Bailgadi Shariat
- D** Kambala

Answer: D

Question 96

What is the resistance (in Ω) of an electrical component if a current of 0.1 A passes through it on application of 5 V of potential difference across it?

- A** 0.5
- B** 100
- C** 50
- D** 1

Answer: C

Question 97

The motion of a freely falling body is an example of _____ accelerated motion.

- A** non uniformly
- B** uniformly
- C** uniquely
- D** specially

Answer: B

Question 98

Increased wind speed is accompanied by a reduced air _____.

- A humidity
- B pressure
- C density
- D aridity

Answer: B

Question 99

Which of the statements given below are correct?

- A) In 2017, Sebastian Vettel raced in Formula One for Ferrari.
- B) Grigor Dimitrov won the Tennis 2017 Cincinnati Masters Men's Singles.
- C) In 2017 Pro Kabaddi League, Nitin Tomar played for Jaipur Pink Panthers.

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

Answer: A

Question 100

In Microsoft Word, _____ are small dots, squares, dashes or graphics that are often seen before the text.

- A Indentation
- B Bullets
- C Numbering
- D Tabs

Answer: B

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