



SSC CHSL 19 March 2018 Evening Shift

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Instructions

For the following questions answer them individually

Question 1

Amit is five years older than Vaibhav at present. After four years the ratio of their age will be 5:4. What is Amit age (in year) at present?

- A 12
- B 16
- C 18
- D 21

Answer: D

Explanation:

Let Amit's age 4 years hence = $5x$ years and Vaibhav's age = $4x$ years

Difference between them will remain the same, $\Rightarrow 5x - 4x = 5$

$$\Rightarrow x = 5$$

\therefore Amit's present age = $5(5) - 4 = 25 - 4 = 21$ years

\Rightarrow Ans - (D)

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Question 2

If $\frac{7x+9y}{3x-4y} = \frac{19}{8}$, then the value of $\frac{x}{y}$ is _____.

- A $\frac{148}{1}$
- B $\frac{1}{148}$
- C $\frac{145}{1}$
- D $\frac{1}{145}$

Answer: A

Explanation:

$$\text{Expression : } \frac{7x+9y}{3x-4y} = \frac{19}{8}$$

$$\Rightarrow 8(7x + 9y) = 19(3x - 4y)$$

$$\Rightarrow 56x + 72y = 57x - 76y$$

$$\Rightarrow 57x - 56x = 72y + 76y$$

$$\Rightarrow x = 148y$$

$$\Rightarrow \frac{x}{y} = \frac{148}{1}$$

\Rightarrow Ans - (A)

Question 3

If $p + \frac{1}{p} = \sqrt{10}$, then find the value of $p^4 + \frac{1}{p^4}$

- A 52
- B 60
- C 62
- D 65

Answer: C

Explanation:

Given : $p + \frac{1}{p} = \sqrt{10}$

Squaring both sides, we get :

$$\Rightarrow \left(p + \frac{1}{p}\right)^2 = (\sqrt{10})^2$$

$$\Rightarrow p^2 + \frac{1}{p^2} + 2\left(p\right)\left(\frac{1}{p}\right) = 10$$

$$\Rightarrow p^2 + \frac{1}{p^2} = 10 - 2 = 8$$

Again squaring both sides, we get :

$$\Rightarrow \left(p^2 + \frac{1}{p^2}\right)^2 = (8)^2$$

$$\Rightarrow p^4 + \frac{1}{p^4} + 2\left(p^2\right)\left(\frac{1}{p^2}\right) = 64$$

$$\Rightarrow p^4 + \frac{1}{p^4} = 64 - 2 = 62$$

\Rightarrow Ans - (C)

Question 4

If $z = 6 - 2\sqrt{3}$, then find the value of $\left(\sqrt{z} - \frac{1}{\sqrt{z}}\right)^2$

- A $\frac{102-46\sqrt{3}}{4}$
- B $\frac{102-46\sqrt{3}}{2}$
- C $\frac{102-46\sqrt{3}}{24}$
- D $\frac{12-46\sqrt{3}}{24}$

Answer: C

Explanation:

Given : $z = 6 - 2\sqrt{3}$ -----(i)

To find : $\left(\sqrt{z} - \frac{1}{\sqrt{z}}\right)^2$

$$= \left(\frac{z-1}{\sqrt{z}}\right)^2 = \frac{(z-1)^2}{z}$$
 -----(ii)

From equation (i), $\Rightarrow z - 1 = 5 - 2\sqrt{3}$

Squaring both sides, we get :

$$\Rightarrow (z - 1)^2 = (5 - 2\sqrt{3})^2$$

$$\Rightarrow (z - 1)^2 = 25 + 12 - 20\sqrt{3} = (37 - 20\sqrt{3})$$
 -----(iii)

Substituting values from equations (i) and (iii) in equation (ii),

$$\Rightarrow \frac{(z-1)^2}{z} = \frac{37-20\sqrt{3}}{6-2\sqrt{3}}$$

Rationalizing the denominator, we get :

$$= \frac{37-20\sqrt{3}}{6-2\sqrt{3}} \times \frac{(6+2\sqrt{3})}{(6+2\sqrt{3})}$$

$$= \frac{37(6+2\sqrt{3})-20\sqrt{3}(6+2\sqrt{3})}{36-12}$$

$$= \frac{222+74\sqrt{3}-120\sqrt{3}-120}{24}$$

$$= \frac{102-46\sqrt{3}}{24}$$

\Rightarrow Ans - (C)

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Question 5

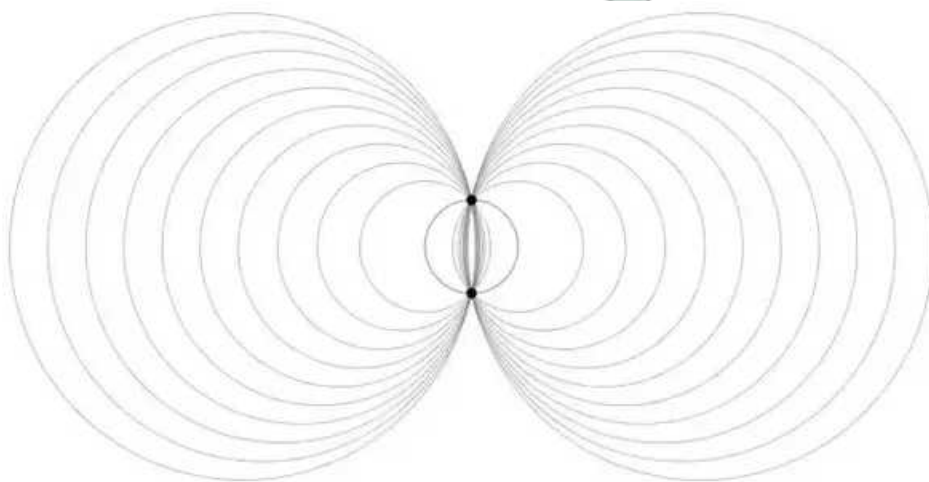
What is the total number of circles passing through the two fixed points?

- A 1
- B 2
- C 4
- D Infinite

Answer: D

Explanation:

Let there be 2 fixed points, as we can see from the figure that there can be infinite circles that passes through these 2 fixed points.



\Rightarrow Ans - (D)

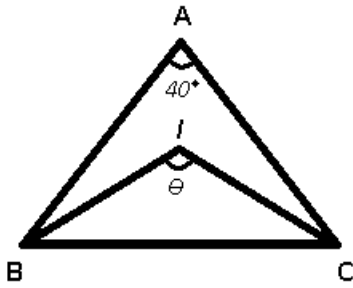
Question 6

If the $\angle ABC$ and $\angle ACB$ of triangle ABC is 80° and 60° respectively. If the Incenter of the triangle is at point 'I' then calculate angle BIC .

- A 55°
- B 80°
- C 110°
- D 120°

Answer: C

Explanation:



Given : I is the incentre of $\triangle ABC$ and $\angle ABC = 80^\circ$ and $\angle ACB = 60^\circ$

To find : $\angle BIC = \theta = ?$

Solution : Sum of angles of $\triangle ABC$:

$$\Rightarrow \angle ABC + \angle ACB + \angle A = 180^\circ$$

$$\Rightarrow 80^\circ + 60^\circ + \angle A = 180^\circ$$

$$\Rightarrow \angle A = 180^\circ - 140^\circ = 40^\circ$$

$$\text{Incentre of a triangle} = 90^\circ + \frac{\angle A}{2}$$

$$\Rightarrow \theta = 90^\circ + \frac{40^\circ}{2}$$

$$\Rightarrow \theta = 90^\circ + 20^\circ$$

$$\Rightarrow \theta = 110^\circ$$

\Rightarrow Ans - (C)

Question 7

The value of a machine depreciates at the rate of 20% per annum. If its present value is Rs 96000, then what was the value (in Rs) of the machine 2 years ago?

A 138240

B 134400

C 150000

D 144000

Answer: C

Explanation:

Present value of machine = Rs. 96,000 and depreciation rate = 20%

$$\Rightarrow \text{Value of machine 1 year ago} = \frac{96000}{(100-20)} \times 100$$

$$= 1200 \times 100 = \text{Rs. } 120,000$$

$$\text{Similarly, value of machine 2 years ago} = \frac{120,000}{(100-20)} \times 100$$

$$= 1500 \times 100 = \text{Rs. } 150,000$$

\Rightarrow Ans - (C)

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Question 8

The incomes of S and T are in the ratio 3 : 4 and their expenditures are in the ratio 1 : 1. If S saves Rs 4000 and T saves Rs 22000, then what will be the income (in Rs) of S?

- A 45000
- B 54000
- C 60000
- D 65000

Answer: B

Explanation:

Let income (in Rs.) of S = $3x$ and income of T = $4x$

Let expenditure (in Rs.) of S = y and expenditure of T = y

$$\text{Savings of S} = 3x - y = 4000 \text{ -----(i)}$$

$$\text{Similarly, } 4x - y = 22000 \text{ -----(ii)}$$

Subtracting equation (i) from (ii), $\Rightarrow 4x - 3x = 22000 - 4000$

$$\Rightarrow x = 18000$$

$$\therefore \text{Income of S} = 3 \times 18000 = \text{Rs. } 54,000$$

\Rightarrow Ans - (B)

Question 9

X and Y started a business by investing Rs 171000 and Rs 243000 respectively. If X's share in the profit earned at the end of year is Rs 3800, then what will be the total profit (in Rs) earned by them together?

- A 9200
- B 9600
- C 8400
- D 8800

Answer: A

Explanation:

Investment by X = Rs. 171,000 and by Y = Rs. 243,000

$$\Rightarrow \text{Ratio of profits at the end of year} = 171,000 : 243,000 = 19 : 27$$

X's share in the profit = Rs. 3800

$$\Rightarrow \text{Total profit} = \frac{(19+27)}{19} \times 3800$$

$$\Rightarrow 46 \times 200 = \text{Rs. } 9200$$

\Rightarrow Ans - (A)

Question 10

The average expenditure of Raman for 5 days is Rs.130. If his expenditure for the first 4 days is Rs.100, Rs.125, Rs.85 and Rs.160 respectively, then what is his expenditure (in Rs) of the 5th day?

- A 165
- B 180

C 185

D 195

Answer: B

Explanation:

Average expenditure of Raman in 5 days = Rs. 130

=> Total expenditure in 5 days = $5 \times 130 = \text{Rs. } 650$

Expenditure of first 4 days = $100 + 125 + 85 + 160 = \text{Rs. } 470$

=> Expenditure of 5th day = $650 - 470 = \text{Rs. } 180$

=> Ans - (B)

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Question 11

A sum of Rs 8000 is borrowed at compound interest at the rate of 7% per annum. What will be the amount (in Rs) after 2 years?

A 1154.4

B 13600

C 9159.2

D 9428.6

Answer: C

Explanation:

Principal sum = Rs. 8000

Rate of interest = 7% and time period = 2 years

Amount under compound interest = $P\left(1 + \frac{R}{100}\right)^T$

$$= 8000\left(1 + \frac{7}{100}\right)^2$$

$$= 8000\left(\frac{107}{100}\right)^2$$

$$= 8 \times \frac{11449}{10}$$

$$= \frac{91592}{10} = \text{Rs. } 9159.2$$

=> Ans - (C)

Question 12

Cost price of a cooler is Rs 8400. If the profit percentage is 26%, then what is the selling price (in Rs) of the cooler?

A 11351

B 6667

C 10584

D 9564

Answer: C

Explanation:

Cost price = Rs. 8400

Profit % = 26%

$$\Rightarrow \text{Selling price} = 8400 + \left(\frac{26}{100} \times 8400\right)$$

$$= 8400 + 2184 = \text{Rs. } 10,584$$

\Rightarrow Ans - (C)

Question 13

On Selling a book at $\frac{9}{14}$ of the marked price there is loss of 10%. What will be the ratio of marked price and cost price of the book?

A 5 : 9

B 5 : 8

C 7 : 4

D 7 : 5

Answer: D

Explanation:

Let marked price of the book = Rs. $140x$

$$\Rightarrow \text{Selling price} = \frac{9}{14} \times 140x = \text{Rs. } 90x$$

Loss % = 10%

$$\Rightarrow \text{Cost price} = \frac{90x}{(100-10)} \times 100 = \text{Rs. } 100x$$

$$\therefore \text{Ratio of marked price and cost price of the book} = \frac{140x}{100x} = 7 : 5$$

\Rightarrow Ans - (D)

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Question 14

What is the positive square root of $[25 + 4\sqrt{39}]$?

A $\sqrt{13} + 2\sqrt{3}$

B $\sqrt{13} + 3\sqrt{2}$

C $\sqrt{11} + 2\sqrt{3}$

D $11 + 3\sqrt{2}$

Answer: A

Explanation:

Expression : $[25 + 4\sqrt{39}]$

$$= [25 + 2\sqrt{4 \times 39}] = [25 + 2\sqrt{156}]$$

$$= 13 + 12 + 2\sqrt{13 \times 12}$$

$$= (13)^2 + (12)^2 + 2\sqrt{13 \times 12}$$

Now, we know that $a^2 + b^2 + 2ab = (a + b)^2$

$$= (\sqrt{13} + \sqrt{12})^2$$

Thus, square root is = $\sqrt{13} + \sqrt{12}$

$$= \sqrt{13} + 2\sqrt{3}$$

=> Ans - (A)

Question 15

Two pipes P and Q can fill an empty tank in 25 hours and 20 hours respectively. Pipe R alone can empty the completely filled tank in 50 hours. Firstly both the pipes P and Q are opened and after 8 hours pipe R is also opened. What will be the total time (in hours) taken to completely fill the tank?

A 12

B 10

C 14

D 13

Answer: A

Explanation:

Let the capacity of tank = L.H.S. (25,20,50) = 100 litres

P and Q can fill an empty tank in 25 hours and 20 hours respectively, => (P+Q)'s efficiency = $\frac{100}{25} + \frac{100}{20} = (4 + 5) = 9$ litres/hr

Similarly, R's efficiency = $\frac{100}{-50} = -2$ litres/hr

Let the total time (in hours) taken to completely fill the tank = t hours

According to ques, P and Q first operated for 8 hours and after that all of P,Q and R operated for $(t - 8)$ hours

$$\Rightarrow (9 \times 8) + (9 - 2)(t - 8) = 100$$

$$\Rightarrow 72 + 7t - 56 = 100$$

$$\Rightarrow 7t = 100 - 16 = 84$$

$$\Rightarrow t = \frac{84}{7} = 12 \text{ hours}$$

=> Ans - (A)

Question 16

Rohit crosses a 700 metres wide road in 35 seconds. What is his speed (in km/hr) ?

A 54

B 76

C 72

D 84

Answer: C

Explanation:

Distance covered in 35 seconds = 700 m

$$\Rightarrow \text{Speed} = \frac{700}{35} = 20 \text{ m/s}$$

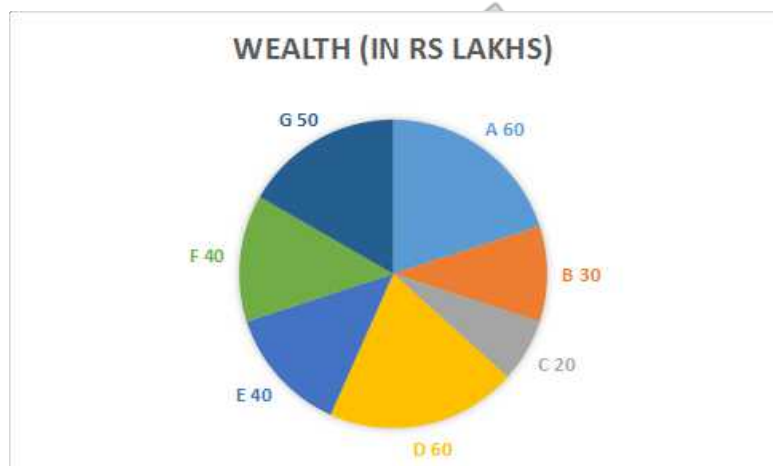
$$= (20 \times \frac{18}{5}) = 72 \text{ km/hr}$$

=> Ans - (C)

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Instructions

The pie chart shows the distribution of wealth between 7 children according to their father's will. Study the diagram and answer the following questions.



Question 17

Which child got the least share of wealth according to the will?

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

Answer: A

Explanation:

Clearly, child C got the least share of wealth according to the will = Rs. 20 lakhs

=> Ans - (A)

Question 18

What is the total wealth (in Rs lakhs) of the father which was distributed according to the will?

- A 300
- B 400
- C 360
- D 240

Answer: A

Explanation:

Total wealth (in Rs lakhs) of the father which was distributed according to the will

$$= 60 + 30 + 20 + 60 + 40 + 40 + 50$$

$$= 300$$

=> Ans - (A)

Question 19

The measure of the central angle of the sector representing the share of wealth that D gets is _____ degrees.

- A 72

- B 60
- C 50
- D 75

Answer: A

Explanation:

Total wealth (in Rs lakhs) of the father which was distributed according to the will

$$= 60 + 30 + 20 + 60 + 40 + 40 + 50 = 300$$

Share of wealth that D gets (in Rs lakhs) = 60

$$\Rightarrow \text{Required central angle} = \frac{60}{300} \times 360^\circ = 72^\circ$$

\Rightarrow Ans - (A)

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Question 20

If 40% wealth tax has to be paid on the wealth that each child receives then how much wealth tax (in Rs lakhs) does C have to pay?

- A 8
- B 10
- C 12
- D 4

Answer: A

Explanation:

Share of wealth that C gets (in Rs lakhs) = 20

Tax = 40%

$$\Rightarrow \text{Wealth tax (in Rs lakhs) that C has to pay} = \frac{40}{100} \times 20 = 8$$

\Rightarrow Ans - (A)

Instructions

For the following questions answer them individually

Question 21

The perimeter of a square is 22 cm. Find its area (in cm^2) ?

- A 60.5
- B 22.5
- C 45
- D 30.25

Answer: D

Explanation:

Let side of square = s cm

$$\Rightarrow \text{Perimeter} = 4s = 22$$

$$\Rightarrow s = \frac{22}{4} = 5.5 \text{ cm}$$

$$\therefore \text{Area} = (5.5)^2 = 30.25 \text{ cm}^2$$

=> Ans - (D)

Question 22

If the circumference of a circle is 88 cm, then what must be its area (in cm^2)?

A 1232

B 616

C 704

D 1408

Answer: B

Explanation:

Let radius of circle = r cm

$$\Rightarrow \text{Circumference} = 2\pi r = 88$$

$$\Rightarrow 2 \times \frac{22}{7} \times r = 88$$

$$\Rightarrow r = 88 \times \frac{7}{44}$$

$$\Rightarrow r = 2 \times 7 = 14 \text{ cm}$$

$$\therefore \text{Area of circle} = \pi r^2$$

$$= \frac{22}{7} \times (14)^2$$

$$= 22 \times 2 \times 14 = 616 \text{ cm}^2$$

=> Ans - (B)

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Question 23

Find the total surface area (in cm^2) of a right circular cylinder of diameter 7 cm and height 6 cm.

A 187

B 209

C 163

D 149

Answer: B

Explanation:

Height of cylinder, $h = 6$ cm and radius, $r = \frac{7}{2} = 3.5$ cm

$$\text{Total surface area of cylinder} = 2\pi r(r + h)$$

$$= 2 \times \frac{22}{7} \times \frac{7}{2} \times (3.5 + 6)$$

$$= 22 \times 9.5 = 209 \text{ cm}^2$$

=> Ans - (B)

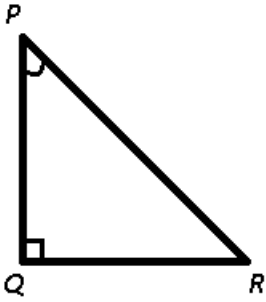
Question 24

ΔPQR is right angled at Q. If $m\angle P = 60^\circ$, then find the value of $(\cot R + \frac{\sqrt{3}}{2})$.

- A $\frac{3\sqrt{3}}{2}$
- B $1 + \sqrt{3}$
- C $\frac{(2\sqrt{2}+1)}{2}$
- D $\frac{(3\sqrt{3}+1)}{6}$

Answer: A

Explanation:



Sum of angles of $\triangle PQR = \angle P + \angle Q + \angle R = 180^\circ$

$$\Rightarrow 60^\circ + 90^\circ + \angle R = 180^\circ$$

$$\Rightarrow \angle R = 180^\circ - 150^\circ = 30^\circ$$

To find : $(\cot R + \frac{\sqrt{3}}{2})$

$$= \cot(30^\circ) + \frac{\sqrt{3}}{2}$$

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

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

\Rightarrow Ans - (A)

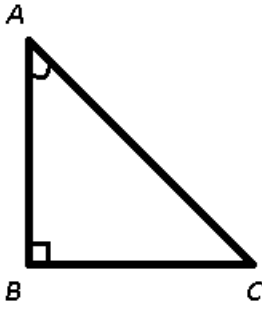
Question 25

$\triangle ABC$ is right angled at B. If $\cot A = \frac{8}{15}$, then what is the value of $\cos C$?

- A 158
- B $\frac{8}{17}$
- C $\frac{17}{15}$
- D $\frac{15}{17}$

Answer: D

Explanation:



Given : $\cot A = \frac{8}{15}$

Also, $\cot A = \frac{AB}{BC} = \frac{8}{15}$

Let $AB = 8$ cm and $BC = 15$ cm

Thus, in $\triangle ABC$,

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

$$\Rightarrow (AC)^2 = (8)^2 + (15)^2$$

$$\Rightarrow (AC)^2 = 64 + 225 = 289$$

$$\Rightarrow AC = \sqrt{289} = 17 \text{ cm}$$

To find : $\cos C = \frac{BC}{AC}$

$$= \frac{15}{17}$$

\Rightarrow Ans - (D)

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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.

Hexagon : Six :: ? : ?

- A Triangle : Two
- B Square : Five
- C Rectangle : Four
- D Pentagon : Four

Answer: C

Explanation:

Expression = Hexagon : Six :: ? : ?

The first is the polygon and the second is number of its sides, i.e. a hexagon has 6 sides, similarly a rectangle has 4 sides.

\Rightarrow Ans - (C)

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Question 27

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

41 : 66 :: ? : ?

A 29 : 54

B 32 : 59

C 31 : 54

D 33 : 59

Answer: A

Explanation:

Expression = 41 : 66 :: ? : ?

The difference between the numbers = $66 - 41 = 15$

Similarly, only the difference between $54 - 29 = 15$

=> Ans - (A)

Question 28

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

CPW : BOV :: KQH : ?

A JPG

B LRI

C LRJ

D JQG

Answer: A

Explanation:

Expression = CPW : BOV :: KQH : ?

The pattern followed is :

C	P	W
(-1)	(-1)	(-1)
B	O	V

Similarly, for KQH : **JPG**

K	Q	H
(-1)	(-1)	(-1)
J	P	G

=> Ans - (A)

Question 29

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

A Sunday

B Thursday

C Monday

D June

Answer: D

Explanation:

Sunday, Thursday and Monday are name of days of the week, while June being a month is the odd one out.

=> Ans - (D)

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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

A 17 - 51

B 19 - 57

C 13 - 37

D 23 - 69

Answer: C

Explanation:

The second number is thrice the first number.

$$17 \times 3 = 51$$

$$19 \times 3 = 57$$

$$13 \times 3 = 39 \neq 37$$

$$23 \times 3 = 69$$

=> Ans - (C)

Question 31

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

A BGLR

B DINS

C HMRW

D KPUZ

Answer: A

Explanation:

(A) : B (+5 letters) = G (+5 letters) = L (+6 letters) = R

(B) : D (+5 letters) = I (+5 letters) = N (+5 letters) = S

(C) : H (+5 letters) = M (+5 letters) = R (+5 letters) = W

(D) : K (+5 letters) = P (+5 letters) = U (+5 letters) = Z

=> Ans - (A)

Question 32

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

1. Plight
2. Plush
3. Platter
4. Plateau
5. Plate

- A 45312
B 54312
C 12354
D 31524

Answer: B

Explanation:

As per the order of dictionary :

= Plate -> Plateau -> Platter -> Plight -> Plush

≡ 54312

=> Ans - (B)

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Question 33

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

21, 25, 34, 50, ?, 111

- A 80
B 75
C 65
D 92

Answer: B

Explanation:

Squares of consecutive integers are added.

$$21 + (2)^2 = 25$$

$$25 + (3)^2 = 34$$

$$34 + (4)^2 = 50$$

$$50 + (5)^2 = 75$$

$$75 + (6)^2 = 111$$

=> Ans - (B)

Question 34

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
GX, JU, MR, PO, ?

- A SK

- B SL
- C RM
- D RL

Answer: B

Explanation:

Series : GX, JU, MR, PO, ?

The pattern followed in each letter of the terms is :

1st letter : G (+3 letters) = J (+3 letters) = M (+3 letters) = P (+3 letters) = S

2nd letter : X (-3 letters) = U (-3 letters) = R (-3 letters) = O (-3 letters) = L

Thus, missing term = **SL**

=> Ans - (B)

Question 35

Burman remembers that the cricket match is after 19th July but before 22nd July, while Sumit remembers that the cricket match is before 25th July but after 20th July. On which date of July is the cricket match?

- A 20
- B 21
- C 22
- D 19

Answer: B

Explanation:

Burman remembers that the cricket match is after 19th July but before 22nd July

=> Possible dates = 20, 21

Sumit remembers that the cricket match is before 25th July but after 20th July

=> Possible dates = 21, 22, 23, 24

Thus, common dates in both = **21st July**

=> Ans - (B)

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Question 36

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

Obliterate

- A Lobe
- B Treat
- C Rate
- D Life

Answer: D

Explanation:

The word OBLITERATE does not contain any 'F', thus the term **Life** cannot be formed.

=> Ans - (D)

Question 37

In a certain code language, "STOINS" is written as "ROHPST". How is "MARCUS" written in that code language?

- A VBRSYM
- B SYNVBZ
- C RZBNVM
- D RVBSZN

Answer: D

Explanation:

"STOINS" is written as "ROHPST"

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

S	N	I	O	T	S
(-1)	(+1)	(-1)	(+1)	(-1)	(+1)
R	O	H	P	S	T

Similarly, for MARCUS :

S	U	C	R	A	M
(-1)	(+1)	(-1)	(+1)	(-1)	(+1)
R	V	B	S	Z	N

=> Ans - (D)

Question 38

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

$20 + 5 \times 4 \div 7 - 2 = ?$

- A 14
- B 17
- C 43
- D 18

Answer: A

Explanation:

Expression : $20 + 5 \times 4 \div 7 - 2 = ?$

$\equiv 20 \div 5 - 4 + 7 \times 2$

$= 4 - 4 + 14$

$= 14$

=> Ans - (A)

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Question 39

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

$9 \div 3 - 30 \times 7 + 6 = 15$

A + and \div

B x and +

C + and -

D \div and x

Answer: B

Explanation:

Expression : $9 \div 3 - 30 \times 7 + 6 = 15$

(A) : + and \div

$$\begin{aligned} \text{L.H.S.} &= 9 + 3 - 30 \times 7 \div 6 \\ &= 12 - (5 \times 7) = -23 \neq \text{R.H.S.} \end{aligned}$$

(B) : x and +

$$\begin{aligned} \text{L.H.S.} &= 9 \div 3 - 30 + 7 \times 6 \\ &= \frac{9}{3} - 30 + 42 = 15 = \text{R.H.S.} \end{aligned}$$

=> Ans - (B)

Question 40

If $7*7 = 140$, $6*1 = 70$ and $3*5 = 80$, then find the value of $4*4 = ?$

A 60

B 80

C 10

D 40

Answer: B

Explanation:

Given : $7*7 = 140$, $6*1 = 70$ and $3*5 = 80$

If we replace '*' with '+', and multiply the sum by 10, we get the desired result.

$$\text{Eg :- } (7 + 7) \times 10 = 140$$

$$\text{and } (6 + 1) \times 10 = 70 \text{ and } (3 + 5) \times 10 = 80$$

$$\text{Similarly, } (4 + 4) \times 10 = 80$$

=> Ans - (B)

Question 41

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

ABCABABAB, CABABABAB, ABABABACB, ABABACBAB, ABACBABAB, _____.

A ABABCABAB

B ACBABABAB

C ABCABABAB

D CABABABAB

Answer: B

Explanation:

Expression : ABCABABAB, CABABABAB, ABABABACB, ABABACBAB, ABACBABAB, _____.

The pattern followed is that in each term there are combinations of 4 'AB' and in each term, there is a 'C' whose position is shifted two places to the left starting from third position.

Thus, in the missing term, B will be at the second position = **ACBABABAB**

=> Ans - (B)

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Question 42

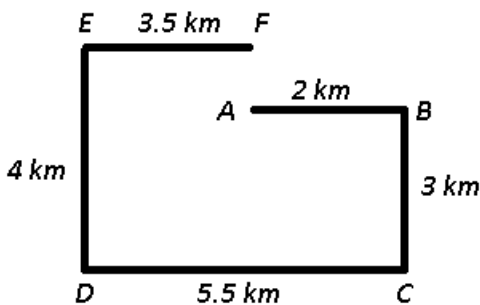
An army recruit is training. He starts and runs 2 km East, then 3 km South, then 5.5 km West, then 4 km North, then 3.5 km East, where is he now with reference to the starting position?

- A 7 km North
- B 1 km South
- C 1 km North
- D 7 km South

Answer: C

Explanation:

Let the army recruit starts from point A and runs 2 km East to B, then 3 km South to reach C, then 5.5 km West to reach point D, then 4 km North, and finally 3.5 km East to stop at point E.



=> $AF = 4 - 3 = 1$ km

∴ Now he is **1 km north** with reference to the starting position.

=> Ans - (C)

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 statues are icons

Statement II: Some busts are statues

Conclusion I: No icons are busts

Conclusion II: All busts are icons

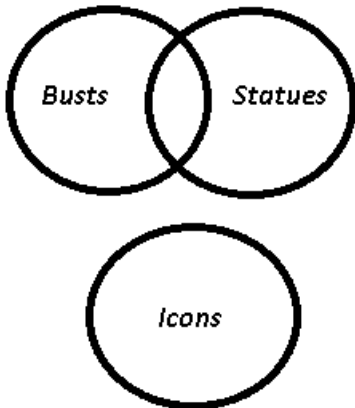
- A Only conclusion I follows
- B Only conclusion II follows
- C Both conclusions I and II follow

D Neither conclusion I nor conclusion II follows

Answer: D

Explanation:

The venn diagram for above statements is :



Conclusion I: No icons are busts = may or may not be true

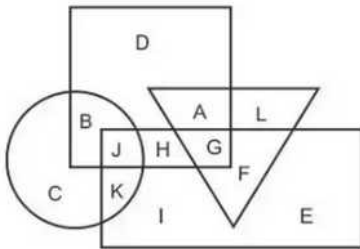
Conclusion II: All busts are icons = false

Thus, neither conclusion I nor conclusion II follows.

=> Ans - (D)

Question 44

In the following figure, rectangle represents Pharmacists, circle represents Bloggers, triangle represents Trekkers and square represents Gymnasts. Which set of letters represents Gymnasts who are not Bloggers?



A DAGH

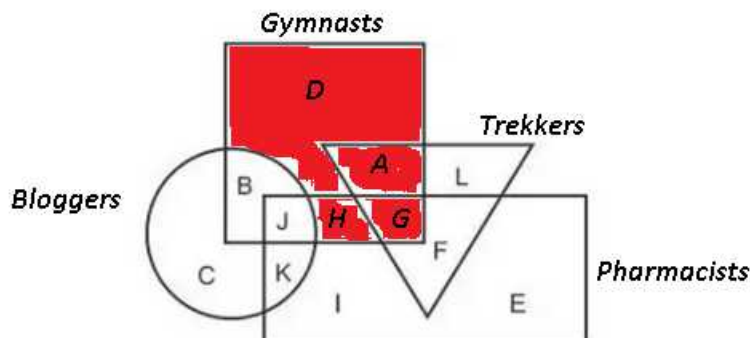
B BJK

C KIE

D AL

Answer: A

Explanation:



Gymnasts who are not Bloggers are represented by = DAGH

=> Ans - (A)

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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.
RMA, TOC, VQE, XSG, ?

- A YVJ
- B ZUI
- C AVJ
- D BWK

Answer: B

Explanation:

Series : RMA, TOC, VQE, XSG, ?

The pattern followed in each letter of the terms is :

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

2nd letter : M (+2 letters) = O (+2 letters) = Q (+2 letters) = S (+2 letters) = U

3rd letter : A (+2 letters) = C (+2 letters) = E (+2 letters) = G (+2 letters) = I

Thus, missing term = **ZUI**

=> Ans - (B)

Question 46

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

5, 9, 13, 17, ?

- A 19
- B 25
- C 21
- D 24

Answer: C

Explanation:

'4' is added to all the numbers.

$$5 + 4 = 9$$

$$9 + 4 = 13$$

$$13 + 4 = 17$$

$$17 + 4 = 21$$

=> Ans - (C)

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 (3, 6, 12)

- B (4, 8, 16)
- C (7, 14, 28)
- D (6, 18, 36)

Answer: D

Explanation:

The numbers are of the form : $(x, 2x, 4x)$

But in the last option, we have $= 2 \times 6 = 12 \neq 18$ and $4 \times 6 = 24 \neq 36$

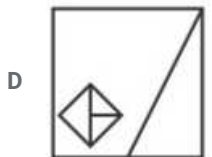
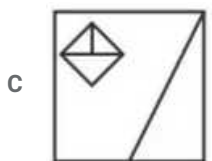
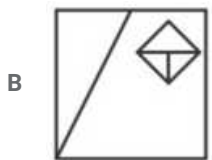
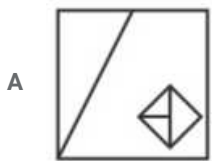
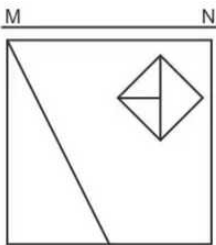
Thus, (6, 18, 36) is the odd one out.

=> 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.

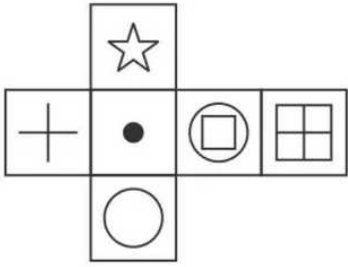
So the slanted line at top left will now start from bottom left, thus the last two options will be eliminated.

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

=> Ans - (A)

Question 49

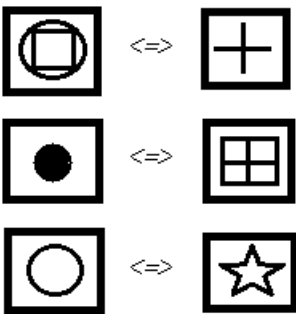
Which of the following cube in the answer figure cannot be made based on the unfolded cube in the question figure?



Answer: A

Explanation:

When we fold the given figure, the square with a '+' sign will become the base of the cube and the square inside the circle 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 'G' can be represented by 31, 43 etc and 'ICI' can be represented by 96,99 etc. Similarly, you have to identify the set for the word 'WAXY'.

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

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

- A 41,57,12,66
- B 68,42,98,85
- C 44,56,13,56
- D 24,75,44,78

Answer: B

Explanation:

- (A) : 41,57,12,66 = BZFT
 - (B) : 68,42,98,85 = WAXY
 - (C) : 44,56,13,56 = EYLY
 - (D) : 24,75,44,78 = LUEO
- => Ans - (B)

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English

Instructions

For the following questions answer them individually

Question 51

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'.

The few moment (a) of deliberation (b) gave her the solution. (c) No error (d)

- A a
- B b
- C c
- D d

Answer: A

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Question 52

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'.

Delhi had been captured, ransacked and rebuilt several (a)/ times and modern Delhi is a cluster of a number (b)/ of cities spread across the metropolitan region. (c)/ No error (d)

A a

B b

C c

D d

Answer: A

Question 53

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.

The closure _____ the workers adversely.

A expected

B effected

C accepted

D affected

Answer: D

Question 54

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.

An independent, impartial, speedy, and _____ judicial system is the very essence of civilisation.

A efficient

B adjacent

C violent

D present

Answer: A

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Question 55

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

A Perfectionist

- B Sloppy
- C Inaccurate
- D Faulty

Answer: A

Question 56

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

- A Implication
- B Encouragement
- C Evidence
- D Hinderance

Answer: B

Question 57

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

- A Embrace
- B Exile
- C Avoid
- D Deport

Answer: A

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Question 58

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

- A Humble
- B Proud
- C Soft
- D Obedient

Answer: B

Question 59

Rearrange the parts of the sentence in correct order.

Many people look down upon

P : they feel that

Q : abstract art because

R : abstractionists compose irrationally

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

Answer: B

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.

She expects good news.

- A Good news is expected by her.
- B News should be good by her.
- C Good news was expected by her.
- D Good news expected.

Answer: A

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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.

"Do you write with a left hand?" she asked.

- A She asked whether I wrote with a left hand.
- B She asked that did I wrote with a left hand.
- C She asked about my writing.
- D She ask if I write with my left hand.

Answer: A

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 Guarantiei
- B Guarantee
- C Gaurantee
- D Garantee

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 necessary, then, to keep our _____ acts under some surveillance of attention, to pass them in review for inspection every now and _____, that we may discover possible modifications which will make them more serviceable. We need to be _____, constantly to find out better ways of doing things. Habit takes care of our standing, walking, sitting; but how many of us could _____ improve his poise and carriage if he would? Our speech has become largely automatic, but no doubt all of us might remove _____ of enunciation, pronunciation or stress from our speaking.

Question 63

to keep our _____ acts under some surveillance

- A habitual
- B habit
- C habitually
- D habits

Answer: A

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Question 64

every now and _____, that we may

- A than
- B then
- C that
- D this

Answer: B

Question 65

We need to be _____, constantly to find

- A inventive
- B invention
- C invent
- D inventor

Answer: A

Question 66

many of us could _____ improve his poise

- A no
- B none

C nor

D not

Answer: D

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Question 67

might remove _____ of enunciation,

A fault

B faulty

C faulting

D faults

Answer: D

Instructions

For the following questions answer them individually

Question 68

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

A Welcome all visitors with open arms.

B No matter what happens.

C Insure all your property from all kinds of losses.

D Willing to become whatever fate has in store for your future.

Answer: B

Question 69

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

A One can't fight one's fate.

B Work very fast to complete something within a deadline.

C Time will march on ceaselessly irrespective of what you do.

D The person who manages time will be successful.

Answer: B

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Question 70

In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence. A system of religious belief; a faith

- A Nihilism
- B Heresy
- C Impiety
- D Creed

Answer: D

Question 71

In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence. A formal speech, especially one given on a ceremonial occasion

- A Oration
- B Reticent
- C Bashful
- D Taciturn

Answer: A

Question 72

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".

Environmental care (had slowly regressing) to the back of our daily requirements.

- A is slowly regressing
- B were slowly regressing
- C are slowly regress
- D no improvement

Answer: A

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Question 73

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".

They are giving something back to the planet that (being defiled) every day in a thousand ways.

- A is been defiled
- B is being defiled
- C is been defiling
- D no improvement

Answer: B

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.

I would then look

A-do some hand-holding and when they were

B-around for my colleagues to

C-not in sight pray for divine intervention

A ACB

B ABC

C BAC

D CBA

Answer: C

Question 75

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

A desendent

B descendant

C illiterate

D descendente

Answer: B

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General Awareness

Instructions

For the following questions answer them individually

Question 76

What is "NIKKEI"?

A Share Price Index of Tokyo Share Market

B Name of Japanese Central Bank

C Japanese name of country's Planning Commission

D Foreign Exchange Market of Japan

Answer: A

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Question 77

Which five year plan aimed at following regional approach, instead of a sectoral approach so as to bring down regional inequalities?

A Ninth Five year plan

- B Eighth Five year plan
- C Tenth Five year plan
- D Eleventh Five year plan

Answer: C

Question 78

Saint Ramananda associated with which of the following branches?

- A Ram Magri
- B Premashrayi
- C Gyanashrayi
- D Karmashrayi

Answer: A

Question 79

Who of the following leaders is NOT associated with Champaran Satyagraha?

- A Anugraha Narain Sinha
- B J.B. Kripalani
- C Braj Kishore Prasad
- D Sardar Patel

Answer: D

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Question 80

Whose science is Seismography?

- A Rivers
- B Earthquake
- C Mountain
- D Volcano

Answer: B

Question 81

What is called the small grasslands on the slopes of Lesser Himalayan range in Jammu and Kashmir?

- A Marg
- B Bugyal
- C Payar

D Duar

Answer: A

Question 82

Folk dance "Lai Haraoba" is popular in which Indian state?

A Assam

B Manipur

C Mizoram

D Nagaland

Answer: B

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Question 83

Which countries organized joint military exercise named 'Mitra Shakti' in October 2017?

A India-Sri Lanka

B India-Nepal

C India-Japan

D India-Bhutan

Answer: A

Question 84

Who among the following has been crowned Miss Universe in Las Vegas on November 26, 2017?

A Shraddha Shashidhar

B Demi-Leigh Nel-Peters

C Iris Mittenaere

D Laura Gonzalez

Answer: B

Question 85

What is called the descendants of Dutch and Portuguese colonies in Sri Lanka?

A Sinhalese

B Tamil

C Burgher

D Vedda

Answer: C

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Question 86

Match the following:

Column A

- I. Electron
- II. Proton
- III. Neutron

Column B

- 1. Rutherford
- 2. Thomson
- 3. Chadwick

A I - 3, II - 1, III - 2

B I - 2, II - 1, III - 3

C I - 2, II - 3, III - 1

D I - 1, II - 2, III - 3

Answer: B

Question 87

Generally covalently bonded molecules ____.

- I. have high boiling and melting point as compare to ionically bonded molecules
- II. poor conductors of electricity
- III. have weak intermolecular force

A Only I and II

B Only I and III

C Only II and III

D All I, II and III

Answer: C

Question 88

Who summons the joint sitting of both the houses of the Indian Parliament?

A Prime Minister of India

B President of India

C Speaker of Lok Sabha

D Chairman of Rajya Sabha

Answer: B

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Question 89

Which bill can be introduced without the prior recommendation of the President of India?

A Money Bill

B Finance Bill

- C Ordinary Bill
- D No option is correct.

Answer: C

Question 90

Where does glucose break down into pyruvate?

- A Golgi bodies
- B Cytoplasm
- C Chloroplast
- D Protoplasm

Answer: B

Question 91

Who expanded the cell theory and suggested that all the cells arise from pre-existing cells?

- A T. Schwann
- B M. Schleiden
- C J. E. Purkinje
- D Rudolf Virchow

Answer: D

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Question 92

In December 2017, the Prime Minister of India inaugurated the B. R. Ambedkar International Centre in _____.

- A Mumbai
- B Ahmedabad
- C New Delhi
- D Hyderabad

Answer: C

Question 93

Which enzyme has been used by scientists of Massachusetts Institute of Technology to induce plants to give off dim light?

- A Carotenogen
- B Luciferase
- C Reductase
- D Peroxidase

Answer: B

Question 94

On 29 September 2017, SEBI allowed Sovereign wealth fund and other long term Foreign Portfolio Investors (FPIs) to buy corporate debt up to _____ in infrastructure sector.

- A Rs. 9500 crore
- B Rs. 5000 crore
- C Rs. 15,000 crore
- D Rs. 20,000 crore

Answer: A

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Question 95

On 2 January 2018, Parliament Passed NABARD (Amendment) Bill, 2017. The Bill seeks to increase capital of NABARD from Rs 5,000 crore to _____.

- A Rs. 30,000 crore
- B Rs. 10,000 crore
- C Rs. 20,000 crore
- D Rs. 40,000 crore

Answer: A

Question 96

Find the acceleration (in m/s²): produced in a body of mass 10 kg when a force of 20 N is applied on it.

- A 200
- B 4
- C 2
- D 100

Answer: C

Question 97

The product of mass of a body and the acceleration produced in it equals the _____ acting on it.

- A force
- B impulse
- C torque
- D kinetic energy

Answer: A

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Question 98

The process of transferring of charge from a charged object to the earth is called _____.

- A neutralisation
- B negation
- C terraforming
- D earthing

Answer: D

Question 99

Which of the statements given below are correct?

- A) Lewis Hamilton won the Formula One 2017 Chinese Grand Prix.
- B) Belgium hosted the Tennis 2017 Davis Cup Final.
- C) Sebastian Vettel won the Formula One 2017 Brazilian Grand Prix.

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

Answer: A

Question 100

The overall capabilities of CCT are understood by all because _____ are information processing tools.

- A Computers
- B DVD
- C Internet
- D CD

Answer: A

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