



SSC CHSL 8 March 2018 Afternoon Shift

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Instructions

For the following questions answer them individually

Question 1

Find the common factor of $(37^{57} + 43^{57})$ and $(37^{37} + 43^{37})$

- A $(43 - 37)$
- B $(43 + 37)$
- C $(37^{37} + 43^{37})$
- D 10

Answer: B

Explanation:

$$37^{57} + 43^{57} = (37 + 43) (37^{56} - 37^{55} \cdot 43 + 37^{54} \cdot 43^2 - 37^{53} \cdot 43^3 + \dots + 43^{56})$$

$$37^{37} + 43^{37} = (37 + 43) (37^{36} - 37^{35} \cdot 43 + 37^{34} \cdot 43^2 - 37^{33} \cdot 43^3 + \dots + 43^{36})$$

∴ The common factor of $(37^{57} + 43^{57})$ and $(37^{37} + 43^{37})$ is $(43 + 37)$

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Question 2

Calculate the value of $\frac{61681 \times 61681 - 31681 \times 31681}{30000}$

- A 93352
- B 94362
- C 93362
- D 95362

Answer: C

Explanation:

$$\text{Expression} = \frac{61681 \times 61681 - 31681 \times 31681}{30000}$$

$$= \frac{(61681)^2 - (31681)^2}{30000}$$

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

$$= \frac{(61681 - 31681) \times (61681 + 31681)}{30000}$$

$$= \frac{30000 \times 93362}{10200} = 93362$$

=> Ans - (C)

Question 3

For which value of 'g' the linear graph of $6x + 12y + 9 = 0$ and $2x + gy + 3 = 0$ has infinite number of solutions?

- A 3
- B 4
- C 6

D 9

Answer: B

Explanation:

For the two equations to have infinite number of solutions, the two lines must overlap one another.

Lines having equation $a_1x + b_1y + c_1 = 0$ and $a_2x + b_2y + c_2 = 0$ are said to be collinear if $\frac{a_1}{a_2} = \frac{b_1}{b_2} = \frac{c_1}{c_2}$

Thus, for the equations : $6x + 12y + 9 = 0$ and $2x + gy + 3 = 0$

$$\Rightarrow \frac{6}{2} = \frac{12}{g} = \frac{9}{3}$$

$$\Rightarrow \frac{12}{g} = 3$$

$$\Rightarrow g = \frac{12}{3} = 4$$

\Rightarrow Ans - (B)

Question 4

What is the area (in square units) of the figure enclosed by the graphs of the lines $x = -4$, $x = 2$, $y = -2$ and $y = 3$?

A 12

B 24

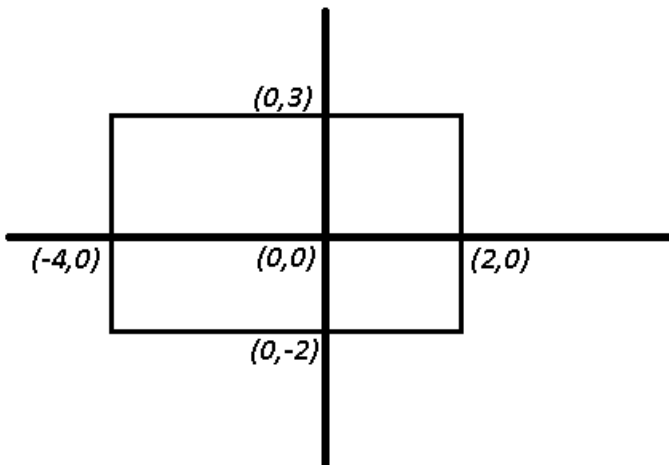
C 30

D 60

Answer: C

Explanation:

Graph of lines : $x = -4$, $x = 2$, $y = -2$ and $y = 3$



Thus, length of rectangle = $4 + 2 = 6$ units and breadth = $3 + 2 = 5$ units

$$\Rightarrow \text{Area} = 6 \times 5 = 30 \text{ sq. units}$$

\Rightarrow Ans - (C)

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Question 5

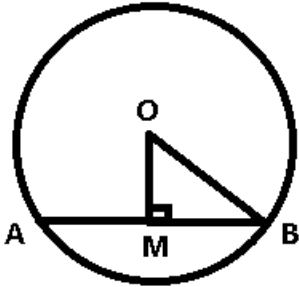
AB is a chord of the circle and its center is "O". OM is perpendicular to AB. If the length of AB=20 cm, OM = $(2\sqrt{11})$ cm, find the radius (in cm) of the circle.

- A 10
- B 12
- C 13
- D 15



Answer: B

Explanation:



Given : OM is perpendicular to AB and $OM = 2\sqrt{11}$ cm

Also, $MB = \frac{20}{2} = 10$ cm

In right $\triangle MOB$,

$$\Rightarrow (OB)^2 = (OM)^2 + (MB)^2$$

$$\Rightarrow (OB)^2 = (2\sqrt{11})^2 + (10)^2$$

$$\Rightarrow (OB)^2 = 44 + 100 = 144$$

$$\Rightarrow OB = \sqrt{144} = 12 \text{ cm}$$

\Rightarrow Ans - (B)

Question 6

The largest chord of the circle has a length of 20.4 cm. The radius of the circle will be ____.

- A 10.2 cm
- B greater than 10.2 cm
- C greater than and equal to 10.2 cm
- D less than 10.2 cm

Answer: A

Explanation:

The largest chord of the circle is equal to the diameter of the circle = 20.4 cm

$$\Rightarrow \text{Radius} = \frac{20.4}{2} = 10.2 \text{ cm}$$

\Rightarrow Ans - (A)

Question 7

Length and breadth of a rectangle are increased by 40% and 70% respectively. What will be the percentage increase in the area of rectangle?

- A 118
- B 110

C 138

D 128

Answer: C

Explanation:

Let length and breadth of rectangle initially be 10 units

$$\Rightarrow \text{Area, } A = 10 \times 10 = 100 \text{ sq.units}$$

$$\text{Length is increased by 40\%, } \Rightarrow \text{New length} = 10 + \left(\frac{40}{100} \times 10\right) = 14 \text{ units}$$

$$\text{Similarly, new breadth} = 10 + \left(\frac{70}{100} \times 10\right) = 17 \text{ units}$$

$$\Rightarrow \text{New area, } A' = 14 \times 17 = 238 \text{ sq.units}$$

$$\therefore \% \text{ increase in area} = \frac{(238-100)}{100} \times 100 = 138\%$$

\Rightarrow Ans - (C)

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Question 8

Rs 6300 is divided among A, B and C in the ratio of $1/2 : 1 : 3/5$. What is the share (in Rs) of B?

A 3300

B 2700

C 3000

D 4200

Answer: C

Explanation:

Total amount = Rs. 6300

$$\text{Ratio of amount with A : B : C} = \frac{1}{2} : 1 : \frac{3}{5}$$

$$\Rightarrow \text{Share of B} = \left(\frac{1}{\frac{1}{2} + 1 + \frac{3}{5}}\right) \times 6300$$

$$= \frac{10}{5+10+6} \times 6300$$

$$= 10 \times 300 = \text{Rs. } 3000$$

\Rightarrow Ans - (C)

Question 9

U and V started a business by investing amounts Rs 184000 and Rs 224000 respectively. If U's share in the profit received at the end of year is Rs 20700, then what will be the total profit (in Rs) earned by them together?

A 43200

B 45900

C 52300

D 56400

Answer: B

Explanation:

Amount invested by U = Rs. 184,000

Amount invested by V = Rs. 224,000

Ratio of profits of U:V = 184000 : 224000

= 23 : 28

Let profit earned by U and V be Rs. $23x$ and $28x$ respectively.

Acc to ques, $\Rightarrow 23x = 20700$

$$\Rightarrow x = \frac{20700}{23} = 900$$

\therefore Total profit = $23x + 28x = 51 \times 900 = \text{Rs. } 45,900$

\Rightarrow Ans - (B)

Question 10

What is the average of first 19 odd numbers?

A 9.5

B 15.5

C 19

D 38

Answer: C

Explanation:

Sum of first n odd numbers = n^2

\Rightarrow Sum of first 19 odd numbers = 19^2

$$\Rightarrow \text{Average} = \frac{19 \times 19}{19} = 19$$

\Rightarrow Ans - (C)

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Question 11

A sum becomes Rs 1392 in 2 years and Rs 1488 in 3 years at simple interest. What is the rate (in percentage) of interest per annum?

A 8

B 10

C 12

D 8.5

Answer: A

Explanation:

Let sum = Rs. $100x$ and rate of interest = $r\%$

Amount after 2 years = Rs. 1392

$$\Rightarrow \text{Amount under simple interest} = P + \frac{P \times R \times T}{100}$$

$$\Rightarrow 100x + \frac{100x \times r \times 2}{100} = 1392$$

$$\Rightarrow 100x + 2rx = 1392$$

$$\Rightarrow x(100 + 2r) = 1392 \text{ -----(i)}$$

Similarly, after 3 years, $\Rightarrow \Rightarrow 100x + \frac{100x \times r \times 3}{100} = 1488$

$$\Rightarrow x(100 + 3r) = 1488 \text{ ----- (ii)}$$

Dividing equation (ii) by (i), we get :

$$\Rightarrow \frac{100+3r}{100+2r} = \frac{1488}{1392}$$

$$\Rightarrow 139200 + 4176r = 148800 + 2976r$$

$$\Rightarrow 4176r - 2976r = 100(1488 - 1392)$$

$$\Rightarrow 1200r = 100 \times 96$$

$$\Rightarrow r = \frac{96}{12} = 8\%$$

\Rightarrow Ans - (A)

Question 12

Selling price of a table is Rs 2808. If profit percentage is 17%, then what is the cost price (in Rs) of table?

A 2288

B 2300

C 2400

D 3285

Answer: C

Explanation:

Selling price = Rs. 2808

Profit % = 17%

$$\Rightarrow \text{Cost price} = \frac{2808}{(100+17)} \times 100$$

$$= 24 \times 100 = \text{Rs. 2400}$$

\Rightarrow Ans - (C)

Question 13

The marked price of a chair is 40% more than its cost price. If the chair is sold for Rs 520 after a discount of Rs 40, then what will be the profit percentage?

A 33

B 40

C 25

D 30

Answer: D

Explanation:

Let cost price = Rs. $100x$

$$\Rightarrow \text{Marked price} = 100x + \left(\frac{40}{100} \times 100x\right) = \text{Rs. } 140x$$

Selling price = Rs. 520

$$\Rightarrow \text{Discount amount} = 140x - 520 = 40$$

$$\Rightarrow 140x = 40 + 520 = 560$$

$$\Rightarrow x = \frac{560}{140} = 4$$

Thus, cost price = $100 \times 4 = \text{Rs. } 400$

$$\therefore \text{Profit \%} = \frac{(520-400)}{400} \times 100$$
$$= \frac{120}{400} \times 100 = 30\%$$

\Rightarrow Ans - (D)

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Question 14

Which of the following statement(s) is/are TRUE?

I. $2\sqrt{3} > 3\sqrt{2}$

II. $4\sqrt{2} > 2\sqrt{8}$

A Only I

B Only II

C Neither I nor II

D Both I and II

Answer: C

Explanation:

We know that $\sqrt{3} = 1.7$, $\sqrt{2} = 1.4$ and $\sqrt{8} = 2.8$

$$\text{I) } 2\sqrt{3} = 2 \times 1.7 \approx 3.4$$

$$\text{and } 3\sqrt{2} = 3 \times 1.4 = 4.2$$

$$\Rightarrow 3\sqrt{2} > 2\sqrt{3}$$

$$\text{II) } 4\sqrt{2} = 4 \times 1.4 \approx 5.6$$

$$\text{and } 2\sqrt{8} = 2 \times 2.8 = 5.6$$

$$\Rightarrow 2\sqrt{8} = 4\sqrt{2}$$

\therefore Neither I and II are true.

\Rightarrow Ans - (C)

Question 15

X, Y and Z can do a piece of work in 30, 40 and 50 days respectively. All three of them began the work together but Y left 4 days before completion of the work. In how many days was the work completed?

A 660/47

B 640/47

C 680/47

D 665/47

Answer: A

Explanation:

Let total work to be done = L.C.M. (30,40,50) = 600 units

X can do the work in 30 days, \Rightarrow X's efficiency = $\frac{600}{30} = 20$ units/day

$$\Rightarrow Y\text{'s efficiency} = \frac{600}{40} = 15 \text{ units/day}$$

$$\text{and } Z\text{'s efficiency} = \frac{600}{50} = 12 \text{ units/day}$$

Let work was completed in x days, then X and Z work for x days and Y for $(x - 4)$ days

$$\Rightarrow 20x + 15(x - 4) + 12x = 600$$

$$\Rightarrow 32x + 15x - 60 = 600$$

$$\Rightarrow 47x = 600 + 60 = 660$$

$$\Rightarrow x = \frac{660}{47}$$

\therefore Work was completed in **660/47** days.

\Rightarrow Ans - (A)

Question 16

A train is moving at the speed of 72 km/hr. How many seconds will it take to cover a distance of 1400 m ?

A 70

B 80

C 72

D 84

Answer: A

Explanation:

$$\text{Speed of train} = 72 \text{ km/hr} = \left(72 \times \frac{5}{18}\right) = 20 \text{ m/s}$$

Time taken to cover 1400 m = distance/speed

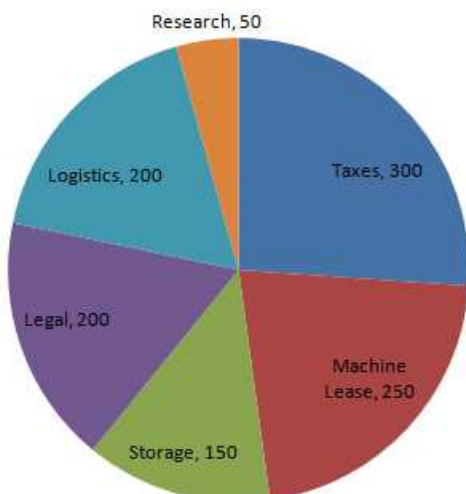
$$= \frac{1400}{20} = 70 \text{ seconds}$$

\Rightarrow Ans - (A)

SSC CHSL Important Questions and Answers (Download PDF)

Instructions

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



Question 17

The second highest expenditure is for which item?

- A Labour
- B Storage
- C Legal
- D Machine Lease

Answer: D

Explanation:

The second highest expenditure is for **Machine Lease** = Rs. 250 lakhs

=> Ans - (D)

Question 18

What is the total expenditure (in Rs lakhs)?

- A 1200
- B 900
- C 1000
- D 1150

Answer: D

Explanation:

Total expenditure (in Rs lakhs)

$$= 300 + 250 + 150 + 200 + 200 + 50$$

$$= 1150$$

=> Ans - (D)

Question 19

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

- A 70
- B 78.26
- C 80
- D 90

Answer: B

Explanation:

Expenditure in Machine Lease (in Rs lakhs) = 250

Total expenditure (in Rs lakhs)

$$= 300 + 250 + 150 + 200 + 200 + 50 = 1150$$

$$\Rightarrow \text{Required central angle} = \frac{250}{1150} \times 360^\circ$$

$$= \frac{5 \times 360^\circ}{23} = 78.26^\circ$$

=> Ans - (B)

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Question 20

Expenditure on Legal and Research constitute what percent of total expenditure?

- A 10%
- B 12%
- C 7.5%
- D 21.74%

Answer: D

Explanation:

Expenditure on Legal and Research (in Rs lakhs) = $200 + 50 = 250$

Total expenditure (in Rs lakhs)

$$= 300 + 250 + 150 + 200 + 200 + 50 = 1150$$

$$\Rightarrow \text{Required \%} = \frac{250}{1150} \times 100$$

$$= \frac{500}{23} = 21.739 \approx 21.74\%$$

\Rightarrow Ans - (D)

Instructions

For the following questions answer them individually

Question 21

The length of the diagonal and the breadth of a rectangle are 17 cm and 8 cm respectively. Find its perimeter (in cm).

- A 92
- B 46
- C 42
- D 84

Answer: B

Explanation:

Let the length of rectangle = l cm and breadth, $b = 8$ cm

$$\Rightarrow \text{Diagonal, } d^2 = l^2 + b^2$$

$$\Rightarrow l^2 = (17)^2 - (8)^2$$

$$\Rightarrow l^2 = 289 - 64 = 225$$

$$\Rightarrow l = \sqrt{225} = 15 \text{ cm}$$

$$\therefore \text{Perimeter} = 2 \times (15 + 8) = 2 \times 23 = 46 \text{ cm}$$

\Rightarrow Ans - (B)

Question 22

The area of a semicircle is 1925 cm². Calculate its perimeter (in cm).

- A 360

- B 80
- C 160
- D 180

Answer: D

Explanation:

Let radius of the semi-circle = r cm

$$\Rightarrow \text{Area} = \frac{1}{2} \times \pi r^2 = 1925$$

$$\Rightarrow \frac{1}{2} \times \frac{22}{7} \times r^2 = 1925$$

$$\Rightarrow r^2 = 1925 \times \frac{7}{11} = 1225$$

$$\Rightarrow r = \sqrt{1225} = 35 \text{ cm}$$

$$\therefore \text{Perimeter} = \pi r + 2r$$

$$= \left(\frac{22}{7} \times 35\right) + (2 \times 35)$$

$$= 110 + 70 = 180 \text{ cm}$$

\Rightarrow Ans - (D)

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Question 23

The surface area of a sphere is 5544 cm². Find its diameter (in cm).

- A 42
- B 21
- C 84
- D 63

Answer: A

Explanation:

Let radius of sphere = r cm

$$\Rightarrow \text{Surface area of sphere} = 4\pi r^2$$

$$\Rightarrow 4 \times \frac{22}{7} \times (r)^2 = 5544$$

$$\Rightarrow r^2 = 5544 \times \frac{7}{88}$$

$$\Rightarrow r^2 = 63 \times 7$$

$$\Rightarrow r = \sqrt{7^2 \times 9} = 21$$

$$\therefore \text{Diameter of sphere} = 2 \times 21 = 42 \text{ cm}$$

\Rightarrow Ans - (A)

Question 24

$\triangle ABC$ is right angled at B. If $m\angle A = 45^\circ$, then find the value of $(\operatorname{cosec} C + 1/\sqrt{3})$.

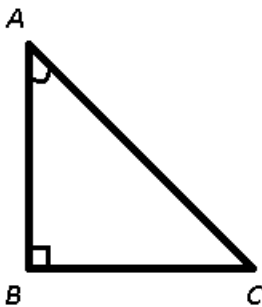
- A $(3\sqrt{2}+1)/3$
- B $(2+\sqrt{3})/2$

C $5/\sqrt{3}$

D $(\sqrt{6}+1)/\sqrt{3}$

Answer: D

Explanation:



Sum of angles of $\triangle ABC = \angle A + \angle B + \angle C = 180^\circ$

$\Rightarrow 45^\circ + 90^\circ + \angle C = 180^\circ$

$\Rightarrow \angle C = 180^\circ - 135^\circ = 45^\circ$

To find : $(\operatorname{cosec} C + \frac{1}{\sqrt{3}})$

$= \operatorname{cosec}(45^\circ) + \frac{1}{\sqrt{3}}$

$= \sqrt{2} + \frac{1}{\sqrt{3}} = \frac{(\sqrt{6}+1)}{\sqrt{3}}$

\Rightarrow Ans - (D)

Question 25

In $\triangle UVW$ measure of angle V is 90° . If $\operatorname{cosec} U = 13/12$, and $UV = 2.5\text{cm}$, then what is the length (in cm) of side VW?

A 6.5

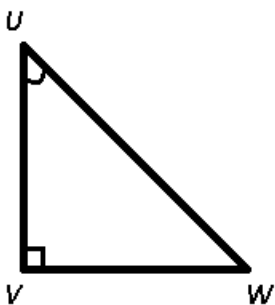
B 6

C 4

D 5.6

Answer: B

Explanation:



Given : $\operatorname{cosec} U = \frac{13}{12}$

Also, $\operatorname{cosec} U = \frac{UW}{VW} = \frac{13}{12}$

Let $UW = 13x$ cm and $VW = 12x$ cm

Thus, in $\triangle UVW$, $\Rightarrow (UV)^2 = (UW)^2 - (VW)^2$

$$\Rightarrow (UV)^2 = (13X)^2 - (12X)^2$$

$$\Rightarrow (UV)^2 = 169x^2 - 144x^2 = 25x^2$$

$$\Rightarrow UV = \sqrt{25x^2} = 5x \text{ cm}$$

According to ques, $\Rightarrow 5x = 2.5$

$$\Rightarrow x = \frac{2.5}{5} = \frac{1}{2}$$

$$\therefore VW = 12 \times \frac{1}{2} = 6 \text{ cm}$$

\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.

Current: Ampere:: ? : ?

- A Air: Kilogram
- B Work: Joule
- C Pressure: Speed
- D Temperature : Metre

Answer: B

Explanation:

Expression = Current: Ampere:: ? : ?

The second is the S.I. unit of the first, i.e. Ampere is the S.I. unit to measure current, similarly unit of Work is Joule.

\Rightarrow Ans - (B)

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Question 27

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

14: 16:: 22: ?

- A 26
- B 29
- C 24
- D 28

Answer: C

Explanation:

Expression = 14: 16:: 22: ?

The pattern followed is = $x : (x + 2)$

Eg :- 14 : (14 + 2) = 14 : 16

Similarly, $22 + 2 = 24$

=> Ans - (C)

Question 28

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

ART: BSU:: MRV: ?

A KFT

B NSW

C MFG

D NRV

Answer: B

Explanation:

Expression = ART: BSU:: MRV: ?

The pattern followed is :

A	R	T
(+1)	(+1)	(+1)
B	S	U

Similarly, MRV : NSW

M	R	V
(+1)	(+1)	(+1)
N	S	W

=> Ans - (B)

Question 29

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

A Car

B Cycle

C Tyre

D Truck

Answer: C

Explanation:

Car, cycle and truck are all means of transport and are categorized under vehicles, hence **tyre** is the odd one out.

=> Ans - (C)

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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 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 10 - 121

B 12 - 169

C 14 - 225

D 16 - 279

Answer: D

Explanation:

If we add '1' to the first numbers and then take the square, we get :

$$(10 + 1)^2 = 121$$

$$(12 + 1)^2 = 169$$

$$(14 + 1)^2 = 225$$

$$(16 + 1)^2 = 289 \neq 279$$

=> Ans - (D)

Question 31

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

A RTVX

B GIKM

C DFIK

D LNPR

Answer: C

Explanation:

(A) : R (+2 letters) = T (+2 letters) = V (+2 letters) = X

(B) : G (+2 letters) = I (+2 letters) = K (+2 letters) = M

(C) : D (+2 letters) = F (+3 letters) = I (+2 letters) = K

(D) : L (+2 letters) = N (+2 letters) = P (+2 letters) = R

=> Ans - (C)

Question 32

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

1. Journey

2. Judge

3. Jingling

4. Jingle

5. Judgement

A 32541

B 53142

C 43125

D 15342

Answer: C

Explanation:

As per the order of dictionary :

= Jingle -> Jingling -> Journey -> Judge -> Judgement

≡ 43125

=> Ans - (C)

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Question 33

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

11, 13, 16, 18, 21, ?

A 29

B 25

C 27

D 23

Answer: D

Explanation:

'2' and '3' are alternatively added.

$$11 + 2 = 13$$

$$13 + 3 = 16$$

$$16 + 2 = 18$$

$$18 + 3 = 21$$

$$21 + 2 = 23$$

=> Ans - (D)

Question 34

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

IM, JO, KQ, LS, ?

A NV

B MU

C MY

D NT

Answer: B

Explanation:

Series : IM, JO, KQ, LS, ?

The pattern followed in each letter of the terms is :

1st letter : I (+1 letter) = J (+1 letter) = K (+1 letter) = L (+1 letter) = M

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

Thus, missing term = **MU**

=> Ans - (B)

Question 35

In a row of boys, Punit's position from the left end is 33rd and Ankit's position from the right end is 25th. After interchanging their position, Punit's position becomes 45th from the left end. How many boys are there in the row?

A 70

- B 71
- C 69
- D 74

Answer: C

Explanation:

Ankit's position from right = 25th

When Ankit goes to Punit's position, Punit's new position = 45th from left end = Ankit's original position

=> Total number of boys = $(25 + 45) - 1 = 69$

=> 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.

Threatened

- A Heart
- B Detain
- C Treat
- D Heated

Answer: B

Explanation:

The word THREATENED does not contain any 'l', thus the term **Detain** cannot be formed.

=> Ans - (B)

Question 37

In a certain code language, "book is tough" is written as "fu la mi", "tough can easy" is written as "fu muk po" and "easy not book" is written as "ti po la". What is the code for "tough" in that code language?

- A mi
- B po
- C la
- D fu

Answer: D

Explanation:

"book is tough" is written as "fu la mi"

"tough can easy" is written as "fu muk po"

The common word in above statements is 'tough' and the common code is = 'fu'

Thus, 'tough' is coded as = 'fu'

=> Ans - (D)

Question 38

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

$$2 - 12 + 10 \times 5 \div 12 = ?$$

- A 32
- B 8
- C 4
- D 14

Answer: D

Explanation:

Expression : $2 - 12 + 10 \times 5 \div 12 = ?$

$$\equiv 2 + 12 \times 10 \div 5 - 12$$

$$= 2 + (12 \times 2) - 12$$

$$= 24 - 10 = 14$$

=> Ans - (D)

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Question 39

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

$$1 \div 14 \times 30 + 20 - 10 = 12$$

- A ÷ and +
- B ÷ and x
- C x and -
- D + and -

Answer: A

Explanation:

Expression : $1 \div 14 \times 30 + 20 - 10 = 12$

(A) : ÷ and +

$$\equiv 1 + 14 \times 30 \div 20 - 10 = 12$$

$$\text{L.H.S.} = 1 + \left(\frac{14 \times 30}{20} \right) - 10$$

$$= 1 + 21 - 10 = 12 = \text{R.H.S.}$$

=> Ans - (A)

Question 40

If $8*2 = 3$, $14*18 = -2$ and $18*2 = 8$, then find the value of $14*10 = ?$

- A 2
- B -5
- C -2

D 6

Answer: A

Explanation:

Given : $8 \times 2 = 3$, $14 \times 18 = -2$ and $18 \times 2 = 8$

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

Eg :- $\frac{8-2}{2} = 3$

and $\frac{14-18}{2} = -2$ and $\frac{18-2}{2} = 8$

Similarly, $\frac{14-10}{2} = 2$

=> Ans - (A)

Question 41

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

XxXXXXX, XxXXXX, XXXxXXX, XXXXxXX, XXXXXxX, _____.

A xXXXXXX

B XxXXXXX

C XXXXXXx

D XXxXXXX

Answer: C

Explanation:

Expression : XxXXXXX, XxXXXX, XXXxXXX, XXXXxXX, XXXXXxX, _____.

The pattern followed is that in each term there are 7 X's and in each term, there is one small 'x' starting from second position from left end and shifting one place to the right.

Thus, in the missing term, the last 'x' will be small = XXXXXXx

=> Ans - (C)

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Question 42

An auto-rickshaw picks a passenger and travels North 6.5 km, then it turns to its left and rides for another 1.5 km, then it turns South and rides for 2.5 km, then it turns to its left and rides 1.5 km. Where is the auto now with respect to its starting position?

A 9 km North

B 4 km South

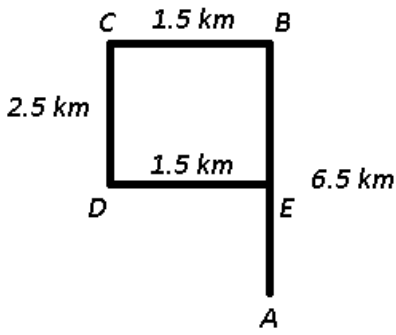
C 4 km North

D 9 km South

Answer: C

Explanation:

Let the auto-rickshaw picks the passenger at point A and travels North 6.5 km to reach B, then it turns to its left and rides for another 1.5 km westwards, then it turns South and rides for 2.5 km to reach D, then again it turns to its left and rides 1.5 km to finally stop at point E.



=> $AE = 6.5 - 2.5 = 4 \text{ km}$

∴ The auto is **4 km north** with respect to its 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 bikes are two-wheelers

Statement II: All wheels are bikes

Conclusion I: No two-wheelers are wheels

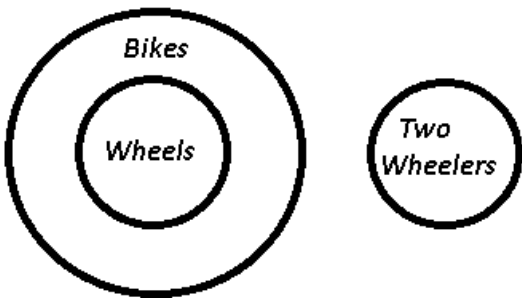
Conclusion II: All wheels are two-wheelers

- 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: A

Explanation:

The venn diagram for above statements is :



Conclusion I: No two-wheelers are wheels = true

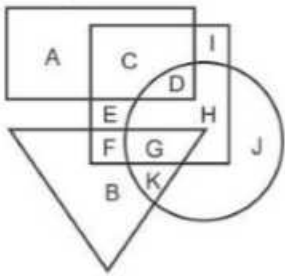
Conclusion II: All wheels are two-wheelers = false

Thus, only conclusion I follows.

=> Ans - (A)

Question 44

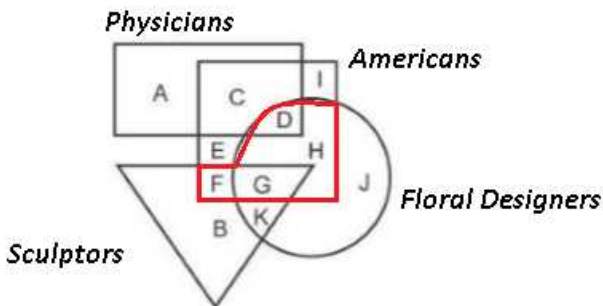
In the following figure, rectangle represents Physicians, circle represents Floral designers, triangle represents Sculptors and square represents Americans. Which set of letters represents Americans who are either Floral designers or Sculptors?



- A FGDH
- B FGK
- C FHJD
- D GK

Answer: A

Explanation:



Americans who are either Floral designers or Sculptors are represented by = **FGDH**

=> 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. LOP, MPQ, NQR, ORS, ?

- A QTU
- B QST
- C PST
- D PTU

Answer: C

Explanation:

Series : LOP, MPQ, NQR, ORS, ?

The pattern followed in each letter of the terms is :

1st letter : L (+1 letter) = M (+1 letter) = N (+1 letter) = O (+1 letter) = P

2nd letter : O (+1 letter) = P (+1 letter) = Q (+1 letter) = R (+1 letter) = S

3rd letter : P (+1 letter) = Q (+1 letter) = R (+1 letter) = S (+1 letter) = T

Thus, missing term = **PST**

=> Ans - (C)

Question 46

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

10, 12, 14, 16, 18, ?

A 22

B 24

C 20

D 26

Answer: C

Explanation:

'2' is added to all the numbers.

$$10 + 2 = 12$$

$$12 + 2 = 14$$

$$14 + 2 = 16$$

$$16 + 2 = 18$$

$$18 + 2 = 20$$

=> 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 (2, 3, 4)

B (4, 5, 6)

C (6, 7, 8)

D (4, 6, 8)

Answer: D

Explanation:

The numbers are of the form : $(x, x + 1, x + 2)$

But in the last option, we have $= 4 + 1 = 5 \neq 6$ and $4 + 2 = 6 \neq 8$

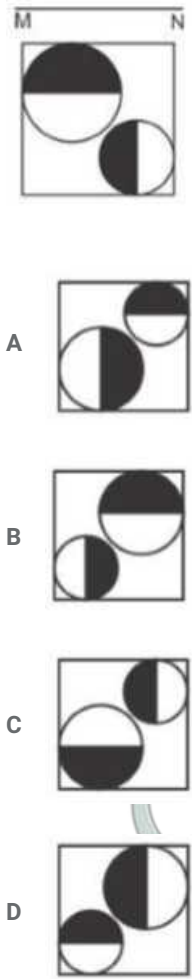
Thus, (4, 6, 8) is the odd one out.

=> 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: C

Explanation:

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

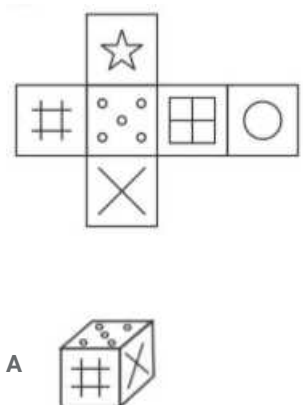
So the big circle at top left will now appear at bottom left, thus the second and last options will be eliminated.

Also, in the question figure, the larger circle is divided horizontally which will remain the same, hence third option is the right image.

=> Ans - (C)

Question 49

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

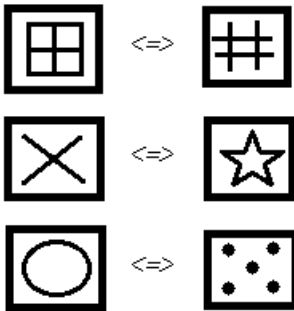




Answer: D

Explanation:

When we fold the given figure, the square with '5 dots' sign will become the base of the cube and the side with only circle 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 last option is not possible.

=> Ans - (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 'W' can be represented by 12,34 etc and 'Q' can be represented by 95,86 etc. Similarly, you have to identify the set for the word 'BURN'.

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

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

A 43,69,13,56

B 30,75,11,97

C 10,98,79,95

D 44,79,11,57

Answer: C

Explanation:

(A) : 43,69,13,56 = IOFX

(B) : 30,75,11,97 = KYFS

(C) : 10,98,79,95 = **BURN**

(D) : 44,79,11,57 = KRFW

=> 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

She has (a)/ reduced her (b)/ consumption to considerably. (c)/ No error (d)

- A She has
- B reduced her
- C consumption to considerably
- D No error

Answer: C

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Question 52

Liquid water cannot exist on the surface of Mars as to low (a)/ atmospheric pressure, which is less than 1% of Earth's, (b)/ except at the lowest elevations for short periods. (c)/ No error (d)

- A Liquid water cannot exist on the surface of Mars as to low
- B atmospheric pressure, which is less than 1% of Earth's,
- C except at the lowest elevations for short periods
- 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

That is _____ cars I know.

- A the worst
- B worst
- C mostly worst
- D one of the worst

Answer: D

Question 54

The _____ of many archaic and dilatory procedures have proved to be extremely damaging to our governance and society.

- A caution
- B translation
- C imposition
- D revolution

Answer: C

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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

Curtail

- A Prolong
- B Downsize
- C Lengthen
- D Extend

Answer: B

Question 56

Inference

- A Beginning
- B Conclusion
- C Preparation
- D Discovery

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

Consensus

- A Accord
- B Discord
- C Consent
- D Unity

Answer: B

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Question 58

Mould

- A Genuine
- B Shape
- C Slice
- D Sculpt

Answer: A

Instructions

For the following questions answer them individually

Question 59

Rearrange the parts of the sentence in correct order.

In developing countries today

P: urban health conditions

Q: than rural health conditions

R: seem to be better

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

Answer: A

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 workers are building the house.

- A The house was being built by the workers.
- B The house was built by the workers.
- C The house is built by the workers.
- D The house is being built by the workers.

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.

Sneha said to Arjun, "Go away."

- A Sneha ordered Arjun to go away.
- B Sneha asked Arjun that he should go away.
- C Sneha say to Arjun to go away.
- D Sneha inquired Arjun to go away.

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 Aggression
- B Aggresion
- C Aggression
- D Agrresson

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.

When the kerosene burned, the fuel in the tank below would be _____ pressure, and _____ a small circular flame would appear in the burner. The valve had to be opened to let more kerosene vapour to the burner and pumping resumed. With the increase in pressure, the burner flame would spread _____ a loud noise. To lower the flame, the valve had to be _____ opened to reduce the pressure and then tightened until the desired flame size was achieved. _____ you wanted the flame to be bigger, you had to hit the piston again. Pump stoves are still in vogue.

Question 63

below would be _____ pressure

- A inside
- B into
- C about
- D under

Answer: D

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Question 64

and _____ a small circular flame

- A slow

- B slowly
- C slower
- D slowest

Answer: B

Question 65

would spread _____ a loud noise.

- A within
- B with
- C at
- D during

Answer: B

Question 66

had to be _____ opened to reduce

- A partly
- B some
- C none
- D everything

Answer: A

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Question 67

was achieved. _____ you wanted the flame

- A If
- B Nor
- C So
- D Thus

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

A bone of contention

- A The only part to which two arguing parties agree.
- B An issue over which there is continuing disagreement.

C A very expensive inherited property.

D To be happy with only a few things.

Answer: B

Question 69

Zip your lip

A Keep quiet about something.

B To talk fast.

C To not think before speaking.

D The silence before a storm.

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

A military or political group that rules a country after taking power by force

A Junta

B Suffrage

C Emancipation

D Egalitarianism

Answer: A

Question 71

A person who lives outside his native country

A Indigenous

B Natal

C Expatriate

D Intrinsic

Answer: C

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

At the micro level, the dialectical process of development in India (has now heading) towards another direction.

A had now heading

- B now heading
- C is now heading
- D no improvement

Answer: C

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Question 73

I wondered what one would have thought some 40 years ago if you (had said) you could heat liquid using a plastic container.

- A having said
- B had say
- C have saying
- D no improvement

Answer: D

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.

Cars were owned by

A: only a privileged few and

B: my class of society was

C: as yet untouched by it

- A ABC
- B CBA
- C CAB
- D BCA

Answer: A

Question 75

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

- A arogance
- B arroganse
- C aroganse
- D arrogance

Answer: D

General Awareness

Instructions

For the following questions answer them individually

Question 76

In which of the following types of economy are the factors of production owned individually?

- A Capitalist
- B Socialist
- C Mixed
- D Both Capitalist and Socialist

Answer: A

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Question 77

Which committee was set up to review the concept of the poverty line?

- A S Tendulkar Committee
- B Lakdawala Committee
- C Wanchoo Committee
- D Dutt Committee

Answer: A

Question 78

Which of the following places presents the oldest evidence of Neolithic Era?

- A Chirnd
- B Mehrgarh
- C Burghome
- D Daimabad

Answer: B

Question 79

Which mosque is considered to be the style of Bengal style in Agra?

- A Nagina Masjid
- B Moti Masjid
- C Jama Masjid

D Badshahi Masjid

Answer: A

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Question 80

According to the distance of planets from the Sun, which of the following order is correct?

A Mercury, Venus, Earth, Mars

B Mercury, Earth, Mars, Venus

C Mercury, Mars, Earth, Venus

D Mercury, Mars, Venus, Earth

Answer: A

Question 81

How many states of India have sea shore?

A 7

B 8

C 9

D 10

Answer: C

Question 82

Amir Khusrow was the disciple of whom?

A Mirza Ghiyas Beg

B Nizamuddin Auliya

C Asadulla Beg

D Sheikh Salim Chisti

Answer: B

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Question 83

Which year has been set as goal for completing the Mumbai:Ahmedabad bullet train project operated with the help of Japan?

A 2022

B 2023

C 2024

D 2025

Answer: B

Question 84

Krishna Sobti is the recipient of the 53rd Jnanpith Award. Which of the following books has not been written by her?

A Daar Se Bichhudi

B Mitro Marjani

C Zindaginama

D Vishw Mithok Sarit Sagar

Answer: D

Question 85

Which of the following countries border does not touch China?

A Cambodia

B Laos

C Vietnam

D Myanmar

Answer: A

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Question 86

Rayon is obtained from which among the following?

A Silk

B Wood pulp

C Wool

D Cotton

Answer: B

Question 87

Which of the following can be beaten and converted into thin sheets?

A Zinc

B Phosphorus

C Sulphur

D Oxygen

Answer: A

Question 88

Prime Minister of India is de:facto head of which of the following bodies?

- I. NITI Aayog
- II. National Integration Council
- III. Indian Board of Wildlife

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

Answer: D

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Question 89

Which type of city administration controls larger urban area?

- A Nagar Panchayat
- B Municipal Council
- C Municipal Corporation
- D No option is correct.

Answer: C

Question 90

Which among the following is NOT an event during the photosynthesis process?

- A Absorption of light energy by chlorophyll
- B Conversion of light energy to chemical energy
- C Splitting of water molecules into hydrogen and oxygen
- D Oxidation of carbon dioxide to carbohydrates

Answer: D

Question 91

The smallest blood vessels which are one:cell thick, are called _____.

- A vena cava
- B arteries
- C veins
- D capillaries

Answer: D



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Question 92

In September 2017, who launched 'Pradhan Mantri LPG Panchayat Yojna'?

- A Narendra Modi
- B Dharmendra Pradhan
- C Piyush Goyal
- D R.K. Singh

Answer: B

Question 93

What are the names of the two identical long tailed macaques cloned by the Chinese Scientists?

- A Long Hong and Zhua Zhua
- B Zhong-Zhong and Hua Hua
- C Tailong and Shanua
- D Rongla and Shamone

Answer: B

Question 94

India was able to achieve the fiscal deficit target for the Financial Year 2016:17. It was how much percent of GDP?

- A 3.50%
- B 4.20%
- C 3.00%
- D 2.50%

Answer: A

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Question 95

On 10 April 2017, Lok Sabha Passed the Motor Vehicles Act (Amendment) Bill, 2016. Under the new provisions, the compensation for death increased from Rs 25,000 to _____.

- A Rs 2 lakh or more
- B Rs 5 lakh or more
- C Rs 10 lakh or more
- D Rs 15 lakh or more

Answer: A

Question 96

Find the current (in A) when a charge of 500 Coulomb flows in 25 seconds.

- A 12500
- B 20
- C 40
- D 6250

Answer: B

Question 97

During _____ motion of an object along a straight line, the velocity remains constant with time.

- A linear
- B translational
- C uniform
- D equilibrium

Answer: C

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Question 98

The tropical region has generally a hot climate because of its location around the _____.

- A poles
- B southern hemisphere
- C high altitudes
- D equator

Answer: D

Question 99

Which of the statements given below are correct?

- A) United Arab Emirates hosted the Badminton 2017 BWF World Senior Championships.
- B) Johanna Konta won the Tennis 2017 Miami Open Women's Singles.
- C) Grigor Dimitrov won the Tennis 2017 US Open Men's Singles.

- A Only B
- B Only C
- C B and C
- D A, B and C

Answer: A

Question 100

In Microsoft Word, under character formatting _____ is used to apply colors to the characters.

- A Font style
- B Font color
- C Effects
- D Size

Answer: B

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