



SSC CHSL 23 March 2018 Evening Shift

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Instructions

For the following questions answer them individually

Question 1

The difference between 66% of a number and 44% of the same number is 275. What is the 64% of that number?

- A 800
- B 840
- C 760
- D 600

Answer: A

Explanation:

Let the number be $100x$

According to ques,

$$\Rightarrow \left(\frac{66}{100} \times 100x\right) - \left(\frac{44}{100} \times 100x\right) = 275$$

$$\Rightarrow 66x - 44x = 22x = 275$$

$$\Rightarrow x = \frac{275}{22} = 12.5$$

$$\therefore 64\% \text{ of the number} = \frac{64}{100} \times 100 \times 12.5 = 800$$

\Rightarrow Ans - (A)

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Question 2

Calculate the value of $(5^{\frac{1}{4}} - 1)(5^{\frac{3}{4}} + 5^{\frac{1}{2}} + 5^{\frac{1}{4}} + 1)$

- A 5
- B 4
- C 10
- D 25

Answer: B

Explanation:

$$\text{Expression} = (5^{\frac{1}{4}} - 1)(5^{\frac{3}{4}} + 5^{\frac{1}{2}} + 5^{\frac{1}{4}} + 1)$$

$$= (5^{\frac{1}{4}} - 1)[(5^{\frac{1}{4}})^3 + (5^{\frac{1}{4}})^2 + (5^{\frac{1}{4}}) + 1]$$

$$\text{Let } 5^{\frac{1}{4}} = x$$

$$= (x - 1)(x^3 + x^2 + x + 1)$$

$$= (x^4 - 1)$$

$$= (5^{\frac{1}{4}})^4 - 1$$

$$= 5 - 1 = 4$$

\Rightarrow Ans - (B)

Question 3

Find 'x' if $\sqrt{(2 + 7x)} = \sqrt{(3x + 4)}$

A 0.5

B 1

C 1.5

D 2

Answer: A

Explanation:

Expression : $\sqrt{(2 + 7x)} = \sqrt{(3x + 4)}$

Squaring both sides, we get :

$$\Rightarrow 2 + 7x = 3x + 4$$

$$\Rightarrow 7x - 3x = 4 - 2$$

$$\Rightarrow 4x = 2$$

$$\Rightarrow x = \frac{2}{4} = 0.5$$

\Rightarrow Ans - (A)

Question 4

The product of two even consecutive numbers is 168. Find the sum of numbers.

A 20

B 22

C 24

D 26

Answer: D

Explanation:

Let the two consecutive even numbers be $x, (x + 2)$

$$\text{Product} = x(x + 2) = 168$$

$$\Rightarrow x^2 + 2x - 168 = 0$$

$$\Rightarrow x^2 + 14x - 12x - 168 = 0$$

$$\Rightarrow x(x + 14) - 12(x + 14) = 0$$

$$\Rightarrow (x + 14)(x - 12) = 0$$

$$\Rightarrow x = -14, 12$$

$\therefore x$ cannot be negative, $\Rightarrow x = 12$

$$\therefore \text{Sum of numbers} = x + (x + 2) = 2x + 2$$

$$= 2(12) + 2 = 24 + 2 = 26$$

\Rightarrow Ans - (D)

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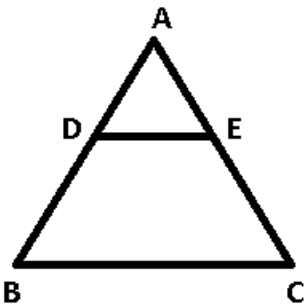
Question 5

A line DE parallel to the side BC intersects the other two sides of triangle at point D and E such that $AD = \frac{1}{6} AB$ and $AE = \frac{1}{6} AC$. If the value of BC is 18 cm then calculate the value of DE (in cm).

- A 2
- B 3
- C 6
- D 8

Answer: B

Explanation:



Given : $AD = \frac{1}{6} AB$ and $AE = \frac{1}{6} AC$ and $BC = 18$ cm

To find : $DE = ?$

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

$\angle A = \angle A$ (Common Angle)

$$\frac{AD}{AB} = \frac{AE}{AC} = \frac{1}{6} \quad (\text{Given})$$

$\therefore \triangle ADE \sim \triangle ABC$

$$\Rightarrow \frac{AD}{AB} = \frac{AE}{AC} = \frac{DE}{BC}$$

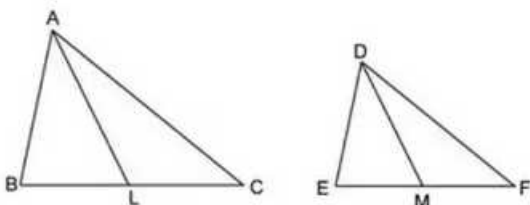
$$\Rightarrow \frac{DE}{18} = \frac{1}{6}$$

$$\Rightarrow DE = \frac{18}{6} = 3 \text{ cm}$$

\Rightarrow Ans - (B)

Question 6

Consider the two equiangular triangles ABC and DEF having medians as AL and DM respectively as shown in figure below.



Choose the correct option for the above situation.

- A $\frac{BC}{EF} = \frac{DM}{AL}$
- B $\frac{BC}{EF} = \frac{AL}{DM}$
- C $\frac{EF}{BC} = \frac{AL}{DM}$

D All options are Correct

Answer: B

Explanation:

It is given that $\triangle ABC$ and $\triangle DEF$ are equiangular triangles, thus corresponding angles are equal.

$\Rightarrow \triangle ABC \sim \triangle DEF$

\Rightarrow Ratio of perimeter = $\frac{AB}{DE} = \frac{BC}{EF} = \frac{AC}{DF}$ -----(i)

Since, AL and DM are medians, \Rightarrow Ratio of perimeter of $\triangle ABC$ to $\triangle DEF = \frac{AL}{DM}$ -----(ii)

From, equations (i) and (ii), we get :

$\Rightarrow \frac{BC}{EF} = \frac{AL}{DM}$

\Rightarrow Ans - (B)

Question 7

The value of a car depreciates at the rate of 15% per annum. If its present value is Rs 433500, then what was the value (in Rs) of the car 2 years ago?

A 594200

B 620000

C 563550

D 600000

Answer: D

Explanation:

Let value of car 2 years ago = Rs. x

Rate of depreciation = 15%

\Rightarrow Current value of car = $x \times \left(1 - \frac{15}{100}\right) \times \left(1 - \frac{15}{100}\right) = 433500$

$\Rightarrow x = 433500 \times \frac{100}{85} \times \frac{100}{85}$

$\Rightarrow x = 60 \times 10000 = 600000$

\therefore The value (in Rs) of the car 2 years ago = **Rs. 6,00,000**

\Rightarrow Ans - (D)

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Question 8

If $A : B : C = 2 : 3 : 5$ and $C : D = 2 : 5$, then what is $A : D$?

A 4:25

B 8:21

C 6:25

D 12:35

Answer: A

Explanation:

Given = $A : B : C = 2 : 3 : 5$ -----(i)

and $C : D = 2 : 5$ -----(ii)

'C' is common in both, thus we need to make it equal in both. Multiply equation (i) by 2 and equation (ii) by 5

$$\Rightarrow A : B : C = 4 : 6 : 10$$

and $C : D = 10 : 25$

$$\therefore A : D = 4 : 25$$

\Rightarrow Ans - (A)

Question 9

In a mixture of 35 litres, the ratio of water and acid is 6 : 1. If 5 litres of acid is added to the mixture, then what will be the ratio of water and acid in the new mixture?

A 5 : 2

B 4 : 1

C 3 : 1

D 6 : 5

Answer: C

Explanation:

Total quantity of mixture = 35 litres and ratio of water and acid is 6 : 1

$$\Rightarrow \text{Quantity of water} = \frac{6}{6+1} \times 35 = 30 \text{ litres}$$

Thus, quantity of acid = $35 - 30 = 5$ litres

Now 5 litres of acid is added to the mixture, \Rightarrow acid = $5 + 5 = 10$ litres

$$\Rightarrow \text{Ratio of water and acid in the new mixture} = \frac{30}{10} = 3 : 1$$

\Rightarrow Ans - (C)

Question 10

The average savings of Champak in 5 days is Rs 160. If his savings for the first 4 days is Rs 155, Rs 170, Rs 134 and Rs 168 respectively, then what is his saving (in Rs) of the 5th day?

A 161

B 163

C 169

D 173

Answer: D

Explanation:

Average savings of Champak in 5 days = Rs. 160

$$\Rightarrow \text{Total savings in 5 days} = 5 \times 160 = \text{Rs. } 800$$

$$\text{Savings of first 4 days} = 155 + 170 + 134 + 168 = \text{Rs. } 627$$

$$\Rightarrow \text{Savings of 5th day} = 800 - 627 = \text{Rs. } 173$$

\Rightarrow Ans - (D)

Question 11

A sum of Rs 6000 is borrowed at compound interest at the rate of 8% per annum. What will be the amount (in Rs) after 2 years?

- A 6998.4
- B 6960
- C 6784.4
- D 6869.4

Answer: A

Explanation:

Principal sum = Rs. 6000

Rate of interest = 8% and time period = 2 years

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

$$= 6000\left(1 + \frac{8}{100}\right)^2$$

$$= 6000\left(1 + \frac{2}{25}\right)^2 = 6000\left(\frac{27}{25}\right)^2$$

$$= 6000 \times \frac{729}{625}$$

$$= 9.6 \times 729 = \text{Rs. } 6998.4$$

=> Ans - (A)

Question 12

Cost price of an article is Rs 122. If profit percentage is 56%, then what is the selling price (in Rs) of the article?

- A 277.27
- B 217.85
- C 175.68
- D 190.32

Answer: D

Explanation:

Cost price = Rs. 122

Profit % = 56%

$$\Rightarrow \text{Selling price} = 122 + \left(\frac{56}{100} \times 122\right)$$

$$= 122 + 68.32 = \text{Rs. } 190.32$$

=> Ans - (D)

Question 13

On Selling a watch at $\frac{4}{5}$ of the marked price there is loss of 4%. What will be the ratio of the marked price and cost price of the watch?

- A 6 : 5
- B 5 : 3
- C 10 : 7

D 7 : 5

Answer: A

Explanation:

Let marked price of the book = Rs. $50x$

$$\Rightarrow \text{Selling price} = \frac{4}{5} \times 50x = \text{Rs. } 40x$$

Loss % = 4%

$$\Rightarrow \text{Cost price} = \frac{40x}{(100-4)} \times 100 = \text{Rs. } \frac{125x}{3}$$

$$\therefore \text{Ratio of marked price and cost price of the book} = \frac{50x}{\frac{125x}{3}}$$

$$= (50 \times 3) : 125 = 6 : 5$$

\Rightarrow Ans - (A)

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Question 14

What is the positive square root of $[19 + 4\sqrt{21}]$?

A $\sqrt{7} + 2\sqrt{3}$

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

C $\sqrt{2} + 3\sqrt{7}$

D $\sqrt{7} + 3\sqrt{3}$

Answer: A

Explanation:

Expression : $[19 + 4\sqrt{21}]$?

$$= [19 + 2\sqrt{4 \times 21}] = [19 + 2\sqrt{84}]$$

$$= 7 + 12 + 2\sqrt{7 \times 12}$$

$$= (7)^2 + (12)^2 + 2\sqrt{7 \times 12}$$

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

$$= (\sqrt{7} + \sqrt{12})^2$$

Thus, square root is = $\sqrt{7} + \sqrt{12}$

$$= \sqrt{7} + 2\sqrt{3}$$

\Rightarrow Ans - (A)

Question 15

18 men or 25 boys can complete a work in 25 days. How many days will 36 men and 10 boys will take to complete the work?

A $\frac{112}{17}$

B $\frac{125}{12}$

C $\frac{115}{12}$

D $\frac{125}{17}$

Answer: B

Explanation:

Let time taken by 1 man to complete unit work = m and by 1 boy = b

18 men complete the work in 25 days, $\Rightarrow m = \frac{1}{25 \times 18}$

Similarly, $b = \frac{1}{25 \times 25}$

Now, time taken by 36 men and 10 boys to complete unit work = $36m + 10b$

$$= (36 \times \frac{1}{25 \times 18}) + (10 \times \frac{1}{25 \times 25})$$

$$= \frac{2}{25} + \frac{2}{125}$$

$$= \frac{10+2}{125} = \frac{12}{125}$$

\therefore No. of days taken to finish the work = $\frac{125}{12}$

\Rightarrow Ans - (B)

Question 16

Vipin crosses a 450 metres wide road in 9 seconds. What is his speed (in km/hr)?

A 195

B 150

C 210

D 180

Answer: D

Explanation:

Distance covered in 9 seconds = 450 m

Using, speed = distance/time

$$= \frac{450}{9} = 50 \text{ m/s}$$

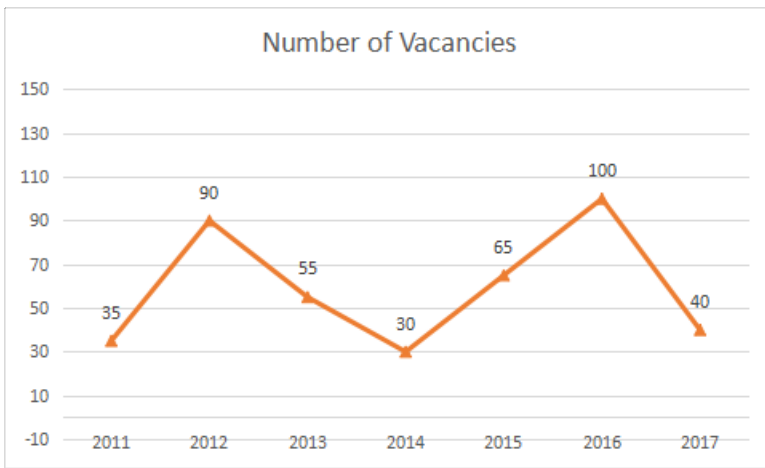
$$= (50 \times \frac{18}{5}) = 180 \text{ km/hr}$$

\Rightarrow Ans - (D)

SSC CHSL Important Questions and Answers (Download PDF)

Instructions

The line graph shows the number of vacancies for executives in a certain company. Study the diagram and answer the following questions.



Question 17

In which year were the number of vacancies lesser than that of the previous year?

- A 2015
- B 2014
- C 2016
- D 2012

Answer: B

Explanation:

In the years 2013, 2014 and 2017, the number of vacancies lesser than that of the previous year.

=> Ans - (B)

Question 18

What was the difference in the number of vacancies between the years 2016 and 2014?

- A 60
- B 50
- C 70
- D 40

Answer: C

Explanation:

Number of vacancies in 2016 = 100

Number of vacancies in 2014 = 30

=> Required difference = $100 - 30 = 70$

=> Ans - (C)

Question 19

The number of vacancies in 2014 were lesser than that in 2016 by _____.

- A 1.167
- B 0.7
- C 0.6

D 2.333

Answer: B

Explanation:

Number of vacancies in 2016 = 100

Number of vacancies in 2014 = 30

$$\Rightarrow \text{Required \%} = \frac{(100-30)}{100} \times 100 = 70\% = 0.7$$

\Rightarrow Ans - (B)

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Question 20

The salary of an executive in the company is Rs 30,000, then what was the increase in the expense (in Rs lakhs) due to salaries that had to be paid when posts were filled for the vacancies in the year 2017?

A 3

B 6

C 9

D 12

Answer: D

Explanation:

Number of vacancies in 2017 = 40

Salary of an executive in the company = Rs 30,000

$$\Rightarrow \text{Total expense (in Rs lakhs)} = 40 \times 0.3 = 12$$

\Rightarrow Ans - (D)

Instructions

For the following questions answer them individually

Question 21

If the lengths of the two parallel sides of a trapezium are 8 cm and 10 cm and the distance between these parallel sides is 6 cm. Find its area ($in\text{cm}^2$)

A 27

B 108

C 54

D 81

Answer: C

Explanation:

Distance between parallel sides = height of trapezium = 6 cm

$$\Rightarrow \text{Sum of lengths of parallel sides} = 8 + 10 = 18 \text{ cm}$$

$$\Rightarrow \text{Area of trapezium} = \frac{1}{2} \times (\text{sum of parallel sides}) \times \text{height}$$

$$= \frac{1}{2} \times 18 \times 6$$

$$= \frac{108}{2} = 54 \text{ cm}^2$$

=> Ans - (C)

Question 22

If the diameter of a circle is 7 cm, then what will be its circumference (in cm)?

- A 44
- B 22
- C 26
- D 52

Answer: B

Explanation:

Radius of circle = $r = \frac{7}{2} = 3.5$ cm

=> Circumference = $2\pi r$

$$= 2 \times \frac{22}{7} \times 3.5$$

$$= 44 \times 0.5 = 22 \text{ cm}$$

=> Ans - (B)

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Question 23

Find the volume ($incm^3$) of a cube of side 6.5 cm.

- A 56.515
- B 274.625
- C 35.605
- D 14.925

Answer: B

Explanation:

Side of cube = $a = 6.5$ cm

=> Volume of cube = a^3

$$= (6.5)^3 = 274.625 \text{ cm}^3$$

=> Ans - (B)

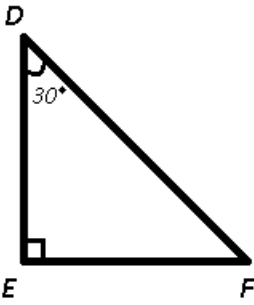
Question 24

$\triangle DEF$ is right angled at E. If $m\angle D = 30^\circ$, then find the value of $(\cos F + \sqrt{3})$

- A $\frac{7}{2\sqrt{3}}$
- B $\frac{(1+2\sqrt{3})}{2}$
- C $\frac{4}{\sqrt{3}}$
- D $\frac{(\sqrt{3}+4)}{2}$

Answer: B

Explanation:



$$\text{Sum of angles of } \triangle DEF = \angle D + \angle E + \angle F = 180^\circ$$

$$\Rightarrow 30^\circ + 90^\circ + \angle F = 180^\circ$$

$$\Rightarrow \angle F = 180^\circ - 120^\circ = 60^\circ$$

To find : $(\cos F + \sqrt{3})$

$$= \cos(60^\circ) + \sqrt{3}$$

$$= \frac{1}{2} + \sqrt{3}$$

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

\Rightarrow Ans - (B)

Question 25

$\triangle DEF$ is right angled at E. If $\sin D = \frac{15}{17}$, then what is the value of $\cot F$?

A $\frac{15}{17}$

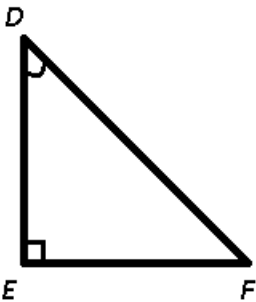
B $\frac{8}{17}$

C $\frac{15}{8}$

D $\frac{17}{15}$

Answer: C

Explanation:



Given : $\sin D = \frac{15}{17}$

Also, $\sin D = \frac{EF}{DF} = \frac{15}{17}$

Let $EF = 15$ cm and $DF = 17$ cm

Thus, in $\triangle DEF$, $\Rightarrow (DE)^2 = (DF)^2 - (EF)^2$

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

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

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

To find : $\cot F = \frac{EF}{DE}$

$$= \frac{15}{8}$$

\Rightarrow Ans - (C)

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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.

Turtle : Reptile :: ? : ?

- A Snake : Amphibian
- B Frog : Bird
- C Crow : Fly
- D Elephant : Mammal

Answer: D

Explanation:

Expression = Turtle : Reptile :: ? : ?

The first comes under the category of second, i.e. turtles are reptiles, similarly an elephant is a mammal.

Snakes are reptiles, crow is a bird and frog is an amphibian.

\Rightarrow Ans - (D)

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Question 27

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

16 : 48 :: ? : ?

- A 25 : 75
- B 11 : 32
- C 25 : 64
- D 49 : 72

Answer: A

Explanation:

Expression = 16 : 48 :: ? : ?

The numbers are of the form = $n : 3n$

Eg :- $3 \times 16 = 48$

Similar pattern is observed only in = $3 \times 25 = 75$

=> Ans - (A)

Question 28

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

APR : BQS :: ETV : ?

- A FVX
- B FUW
- C GUX
- D GVW

Answer: B

Explanation:

Expression = APR : BQS :: ETV : ?

The pattern followed is :

A	P	R
(+1)	(+1)	(+1)
B	Q	S

Similarly, for ETV : **FUW**

E	T	V
(+1)	(+1)	(+1)
F	U	W

=> Ans - (B)

Question 29

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

- A Pen - Ink
- B Pen - Writer
- C Book - Pages
- D Word - Letter

Answer: B

Explanation:

First is made by using second, pen is made up of ink, book of pages, and word is combination of letters, hence **Pen - Writer** is the odd one out.

=> Ans - (B)

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Question 30

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

- A 7 - 14

B 11 - 22

C 5 - 10

D 3 - 8

Answer: D

Explanation:

The second number is double of the first number.

$$7 \times 2 = 14$$

$$11 \times 2 = 22$$

$$5 \times 2 = 10$$

$$3 \times 2 = 6 \neq 8$$

=> Ans - (D)

Question 31

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

A KRY

B DKR

C FMT

D LVZ

Answer: D

Explanation:

(A) : K (+7 letters) = R (+7 letters) = Y

(B) : D (+7 letters) = K (+7 letters) = R

(C) : F (+7 letters) = M (+7 letters) = T

(D) : L (+10 letters) = V (+4 letters) = Z

=> Ans - (D)

Question 32

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

1. Conservative

2. Cooker

3. Conflict

4. Congratulate

5. Cool

A Conservative

B Congratulate

C Cooker

D Conflict

Answer: B

Explanation:

As per the order of dictionary :

= Conflict -> Congratulate -> Conservative -> Cooker -> Cool

Thus, the second word = **Congratulate**

=> Ans - (B)

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Question 33

In the following question, select the missing number from the given series.
14, 19, 26, 37, 50, 67, ?

- A 83
- B 77
- C 86
- D 93

Answer: C

Explanation:

Consecutive prime numbers are added.

$$14 + 5 = 19$$

$$19 + 7 = 26$$

$$26 + 11 = 37$$

$$37 + 13 = 50$$

$$50 + 17 = 67$$

$$67 + 19 = \mathbf{86}$$

=> 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.
K, O, S, W, ?

- A A
- B Z
- C Y
- D D

Answer: A

Explanation:

Series : K, O, S, W, ?

The pattern followed is :

$$K (+4 \text{ letters}) = O (+4 \text{ letters}) = S (+4 \text{ letters}) = W (+4 \text{ letters}) = \mathbf{A}$$

=> Ans - (A)

Question 35

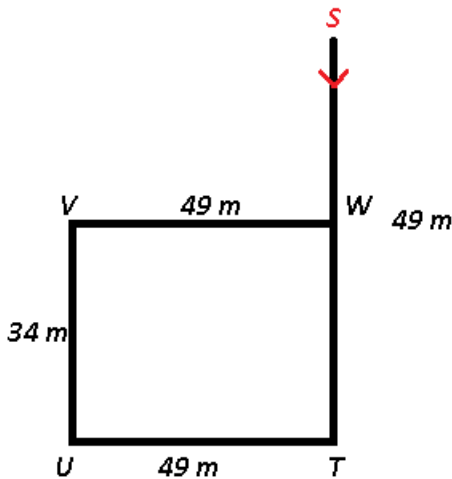
From a hospital S, Pritam walked 49 metres to the south, then after turning to right he walked 49 metres. He again turned right and walked another 34 metres and finally turned to right and walked 49 metres. At what distance (in metres) and in which direction is he from the hospital S now?

- A 15, North
- B $22\sqrt{3}$, North
- C 15, South
- D $22\sqrt{3}$, South

Answer: C

Explanation:

From a hospital S, Pritam walked 49 metres to the south to T, then after turning to right he walked 49 metres westwards to point U. He again turned right and walked another 34 metres to reach V and finally turned to right and walked 49 metres to stop at point W.



=> $SW = 49 - 34 = 15$ km

∴ He is **15 m south** from the hospital S now.

=> 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. Gramophone

- A Game
- B Norm
- C Ram
- D Move

Answer: D

Explanation:

The word GRAMOPHONE does not contain any 'V', thus the term **Move** cannot be formed.

=> Ans - (D)

Question 37

In a certain code language, "Sun is hot" is written as "fi lat muk", "milk is sour" is written as "muk ti mu" and "milk makes sour" is written as "ti mu fa". What is the code for "is" in that code language?

- A ti

- B fa
- C muk
- D mu

Answer: C

Explanation:

“Sun is hot” is written as “fi lat muk”

“milk is sour” is written as “muk ti mu”

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

Thus, the code for ' is' = 'muk'

=> Ans - (C)

Question 38

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series. PCO, QDP, REQ, ?, TGS

- A TGS
- B SGR
- C SFR
- D TFS

Answer: C

Explanation:

Series : PCO, QDP, REQ, ?, TGS

The pattern followed in each letter of the terms is :

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

2nd letter : C (+1 letter) = D (+1 letter) = E (+1 letter) = F (+1 letter) = G

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

Thus, missing term = **SFR**

=> Ans - (C)

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Question 39

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

133, 136, 139, 142, ?, 148

- A 146
- B 145
- C 144
- D 147

Answer: B

Explanation:

'3' is added to all the numbers.

$$133 + 3 = 136$$

$$136 + 3 = 139$$

$$139 + 3 = 142$$

$$142 + 3 = \mathbf{145}$$

$$145 + 3 = 148$$

=> Ans - (B)

Question 40

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 (57, 61, 65)

B (92, 96, 100)

C (63, 67, 71)

D (64, 68, 70)

Answer: D

Explanation:

The numbers are of the form : $(x, x + 4, x + 8)$

But in the last option, we have = $64 + 8 = 72 \neq 70$

Thus, (64, 68, 70) is the odd one out.

=> Ans - (D)

Question 41

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

$$20 + 6 \times 5 \div 20 - 14 = ?$$

A 45

B 26

C 18

D 12

Answer: C

Explanation:

Expression : $20 + 6 \times 5 \div 20 - 14 = ?$

$$\equiv 20 \times 6 \div 5 - 20 + 14$$

$$= (4 \times 6) - 6$$

$$= 24 - 6 = 18$$

=> Ans - (C)

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Question 42

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

$$19 - 16 + 5 \div 10 \times 2 = 28$$

- A x and -
- B \div and -
- C \div and x
- D - and +

Answer: C

Explanation:

When we interchange x and -, we get $19 \times 16 + 5 \div 10 - 2 = 302.5$. Option A is wrong.
When we interchange \div and -, we get $19 \div 16 + 5 - 10 \times 2 = 16.1875$. Option B is wrong.
When we interchange \div and x, we get $19 - 16 + 5 \times 10 \div 2 = 25$. Option C is correct.
When we interchange - and +, we get $19 + 6 - 5 \div 10 \times 2 = 24$. Option D is wrong.
Hence, option C is the correct answer.

Question 43

If $1\&7 = 80$, $4\&5 = 90$ and $6\&8 = 140$, then find the value of $5\&5 = ?$

- A 40
- B 100
- C 20
- D 90

Answer: B

Explanation:

Given : $1\&7 = 80$, $4\&5 = 90$ and $6\&8 = 140$

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

Eg :- $(1 + 7) \times 10 = 80$

and $(4 + 5) \times 10 = 90$ and $(6 + 8) \times 10 = 140$

Similarly, $(5 + 5) \times 10 = 100$

=> Ans - (B)

Question 44

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: B

Explanation:

Expression : $XyXYXYXY$, $XYxYXYXY$, $XYXyXYXY$, $XYXYxYXY$, $XYXYXyXY$, _____.

The pattern followed is that there is a combination of 4 'XY' in which the letters starting from second position and in increasing order are small letters in each successive terms.

Thus, in the missing term, the second last alphabet is small, => XYXYXYxY

=> Ans - (B)

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Question 45

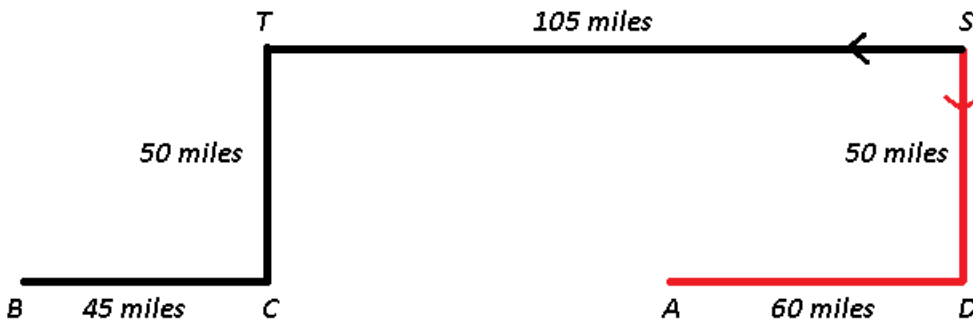
Two cruisers start from the same port. Cruiser A sails 50 miles South, then it turns right and sails 60 miles. In the meanwhile cruiser B sails 105 miles West, then it turns left and sails 50 miles, then it turns West and sails 45 miles. Where is cruiser A with respect to cruiser B?

- A 210 miles East
- B 90 miles East
- C 90 miles West
- D 210 miles West

Answer: B

Explanation:

Let the two cruisers start from the same port S. Cruiser A (red) sails 50 miles South to D, then it turns right and sails 60 miles towards west. In the meanwhile cruiser B (black) sails 105 miles West to reach T, then it turns left and sails downwards 50 miles, then it turns West and sails 45 miles to stop finally at B.



$$\Rightarrow AB = (105 - 60) + 45 = 90 \text{ miles}$$

∴ Cruiser A is **90 miles east** with respect to cruiser B.

=> Ans - (B)

Question 46

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

Statement I: All doors are windows

Statement II: No openings are windows

Conclusion I: All windows are openings

Conclusion II: No openings are doors

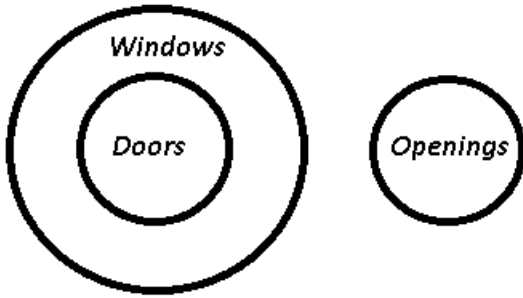
- A Only conclusion I follows
- B Only conclusion II follows
- C Both conclusions I and II follow

D Neither conclusion I nor conclusion II follows

Answer: B

Explanation:

The venn diagram for above statements is :



Conclusion I: All windows are openings = false

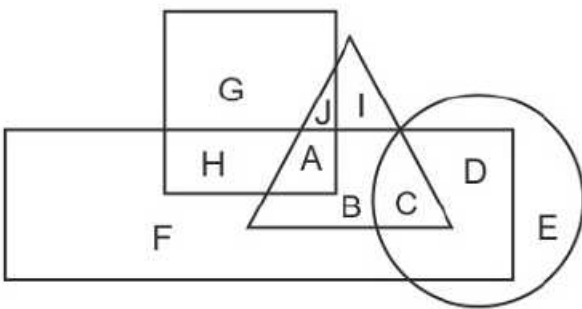
Conclusion II: No openings are doors = true

Thus, only conclusion II follows.

=> Ans - (B)

Question 47

In the following figure, rectangle represents Reporters, circle represents Dancers, triangle represents Playwrights and square represents Boxers. Which set of letters represents Boxers who are Playwrights?



A GH

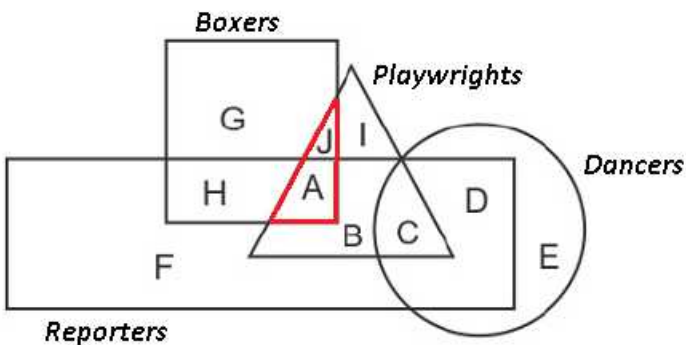
B JA

C IB

D BC

Answer: B

Explanation:



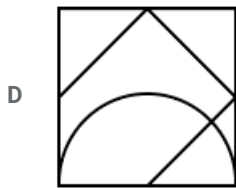
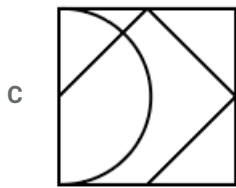
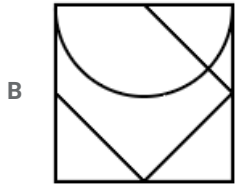
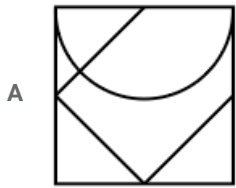
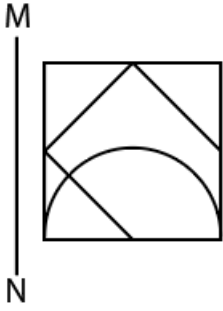
Boxers who are Playwrights are represented by = JA

=> Ans - (B)

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Question 48

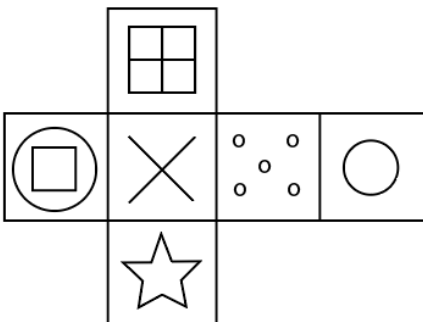
If a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure?

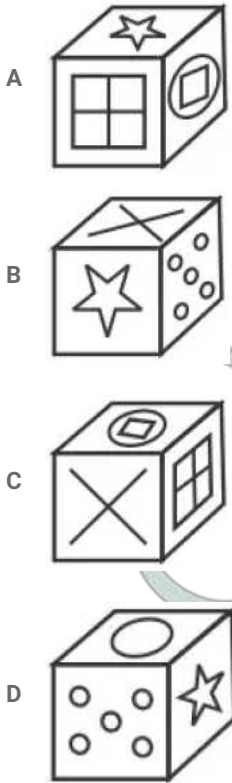


Answer: D

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 'D' can be represented by 30, 42 etc and T can be represented by 67, 78 etc. Similarly, you have to identify the set for the word 'HIND'.

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

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

- A 44,34,68,10
- B 11,89,13,77
- C 20,88,11,86
- D 42,67,12,89

Answer: A

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English

Instructions

For the following questions answer them individually

Question 51

Select the antonym of stratagem

- A frankness
- B ruse
- C gimmick
- D ploy

Answer: A

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Question 52

In the following question, a sentence has been given in Direct/Indirect speech. Out of the four alternatives suggested, select the one, which best express the same sentence in Indirect/Direct speech.

The tutor said, "The sun rises in the East".

- A The tutor says the sun rises in the East.
- B The tutor said that the sun rose in the East.
- C The tutor said that the sun has been rising in the East.
- D The tutor said that the sun rises in the East.

Answer: D

Question 53

Select the synonym of to admonish

- A to reprimand
- B to rave
- C to panegyryze
- D to eulogise

Answer: A

Question 54

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'.

I don't think I shall (A)/get through all (B)/this work this afternoon.(C)/No error (D)

- A A
- B B
- C C

D D

Answer: D

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Question 55

Select the antonym of
divulgence

- A testimony
- B repudiation
- C assent
- D revelation

Answer: B

Question 56

Select the synonym of 'blabber'

- A wary
- B nonsense
- C sophic
- D sapient

Answer: B

Question 57

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

- A to prepare for sleep
- B to die
- C to take one's anger out
- D to hit where it hurts the most

Answer: A

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Question 58

Rearrange the parts of the sentence in correct order.

The current Indian
P-establishment's priorities
Q-independence of writers
R-do not include the

- A RPQ

- B QRP
- C PRQ
- D QPR

Answer: C

Question 59

Select the word with the correct spelling.

- A imminent
- B mouerning
- C laticed
- D neoplasm

Answer: D

Question 60

Improve the bracketed part of the sentence.
Your character depends on (your upbringing).

- A how you were brought.
- B your up bringing
- C your way of upbringing.
- D no improvement

Answer: D

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Question 61

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

- A walking in a zig-zag manner, especially under the influence of alcohol
- B meaningless talk or activity, typically designed to trick someone
- C rich people but who are shallow and greedy
- D doing a job haphazardly

Answer: B

Question 62

Select the word with the correct spelling.

- A asyrian
- B apustate

C marzipan

D cucumber

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.

_____ democracies, citizens have command _____ who they want to be represented by as well as the competence to define issues worthy of representation. Outside the domain of often _____ party politics lies an entire terrain of collective action _____ which citizens press their collective will upon those _____ rule.

Question 63

_____ democracies

A In

B Into

C Inside

D Inner

Answer: C

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Question 64

citizens have command _____

A on

B about

C over

D with

Answer: D

Question 65

Outside the domain of often _____ party

A smelly

B obnoxious

C odourful

D rancid

Answer: A

Question 66

politics lies an entire terrain of collective action _____

- A through
- B to
- C into
- D for

Answer: B

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Question 67

which citizens press their collective will upon those _____ rule.

- A whom
- B which
- C whosoever
- D who

Answer: D

Instructions

For the following questions answer them individually

Question 68

Improve the bracketed part of the sentence.

My daughter (is loving) Glucose biscuits.

- A has been loving
- B loves to
- C loves
- D no improvement

Answer: C

Question 69

In the following question, a sentence has been given in Active/Passive voice. Out of four alternatives suggested, select the one, which best expresses the same sentence in Passive/Active voice.

Anita will arrange the dresses.

- A The dresses would be arranged by Anita.
- B The dresses would have been arranged by Anita.
- C The dresses would have had been arranged by Anita.
- D The dresses will be arranged by Anita.

Answer: D

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Question 70

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.

Each day, the price of gold will _____ on the market.

- A fluctuate
- B wave
- C flutter
- D vibrate

Answer: D

Question 71

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.

A _____ education needs to include reading, writing, math, and a variety of other subjects.

- A organic
- B fundamental
- C primitive
- D radical

Answer: A

Question 72

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase. Respect and admiration.

- A peccant
- B culpable
- C vicious
- D esteem

Answer: D

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Question 73

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase. Involving many carefully arranged parts or details; detailed and complicated in design and planning.

- A labyrinthine

- B facile
- C elaborate
- D prodigious

Answer: B

Question 74

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'.

He has seen (A)/some bad days (B)/but now he is well of.(C)/No error(D)

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

Answer: A

Question 75

Rearrange the parts of the sentence in correct order.

What makes this "victory"

P-even more surprising was

Q-the complete asymmetry of

R-the two sides involved

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

Answer: D

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General Awareness

Instructions

For the following questions answer them individually

Question 76

Which movie has won the most number of Oscars?

- A Titanic
- B Cabaret
- C Jungle Book
- D Avatar

Answer: A

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Question 77

Chittorgarh Fort is in _____.

- A Rajasthan
- B Bihar
- C Uttar Pradesh
- D Gujarat

Answer: A

Question 78

Which organ is the main digester and absorber of food?

- A Stomach
- B Liver
- C Colon
- D Small intestine

Answer: D

Question 79

The bark of willow tree is a source of which medicine?

- A Paracetamol
- B Aspirin
- C Antacid
- D Antiseptic

Answer: B

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Question 80

Capra Hircus is the scientific name of _____.

- A Sheep
- B Cow
- C Horse
- D Goat

Answer: D

Question 81

What does a catalyst do in a reaction?

- A A catalyst is nothing but the final product of a reaction
- B Does not alter the rate of reaction
- C Speeds up chemical reaction
- D Slows down chemical reaction

Answer: C

Question 82

Atomic number of which of the following elements is greater than that of Bromine

- A Silver
- B Copper
- C Iron
- D Chromium

Answer: A

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Question 83

Commonly used abbreviation GUI in computer science stands for?

- A Group User Interface
- B Graphic User Interface
- C Graphic User Integration
- D Group User Integration

Answer: B

Question 84

Tamil is the official language of _____.

- A Puducherry
- B Dadra and Nagar Haveli
- C Daman and Diu
- D Delhi

Answer: A

Question 85

A tyre tube manufacturer faces a -1.6 price elasticity of demand for its tubes. It is presently selling 24000 units/month. If it wants to increase quantity sold by 4%, it must lower its price by _____.

- A 2.5 percent
- B 5.6 percent
- C 2.4 percent
- D 6.4 percent

Answer: A

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Question 86

Consider the market for new two-wheelers. If the price of steel increases, then the equilibrium price of new two wheelers will _____ and the equilibrium quantity will _____.

- A increase; increase
- B decrease; decrease
- C increase; decrease
- D decrease; increase

Answer: A

Question 87

Which type of pathogen causes the water-borne disease Ascariasis?

- A Viral
- B Protozoan
- C Bacterial
- D Parasitic

Answer: D

Question 88

Which type of pathogen causes the water-borne disease Dysentery?

- A Algal
- B Parasitic
- C Protozoan
- D Bacterial

Answer: D

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Question 89

What is the major electricity generation power source in India?

- A Coal
- B Gas
- C Nuclear
- D Hydro

Answer: A

Question 90

A person, who draws or makes maps or charts, is called _____.

- A Hydrographer
- B Cartographer
- C Seismographer
- D Cartogrammer

Answer: B

Question 91

Brihadeshwara Temple, Thanjavur is in _____.

- A Tamil Nadu
- B Assam
- C Bihar
- D Himachal Pradesh

Answer: A

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Question 92

Salt March also known as Dandi March was initiated by _____.

- A Raja Ram Mohan Roy
- B Mahatma Gandhi
- C Avantikabai Gokhale
- D Kasturba Gandhi

Answer: B

Question 93

Chauri Chaura incident took place in?

- A 1902
- B 1912
- C 1922
- D 1932

Answer: C

Question 94

Who invented Telephone?

- A Alexander Graham Bell
- B Thomas Edison
- C Benjamin Franklin
- D James Watt

Answer: A

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Question 95

Which instrument measures AF signal level and noise?

- A Vectorscope
- B VU meter
- C Q meter
- D Psophometer

Answer: D

Question 96

If a physical quantity has the units - ampere meters per second squared, then what are it's dimensions?

- A $[I LT^{-2}]$
- B $[ALT^{-2}]$
- C $[I MS^{-2}]$
- D $[AMS^{-2}]$

Answer: A

Question 97

The 42nd Amendment of the Constitution of India was enacted in the year _____.

- A 1947
- B 1976
- C 1991
- D 2016

Answer: B

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Question 98

The number of parliamentary seats (Rajya Sabha) of Chhattisgarh is _____.

- A 3
- B 5
- C 11
- D 16

Answer: B

Question 99

Which country's 7 swimmers were banned from the Rio Olympics?

- A Russia
- B Japan
- C China
- D USA

Answer: A

Question 100

Who is the author of "The Great Indian Novel"?

- A Jawaharlal Nehru
- B Shashi Tharoor
- C Mahatma Gandhi
- D Arun Shourie

Answer: B

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