



SSC CHSL 21 March 2018 Evening Shift

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Instructions

For the following questions answer them individually

Question 1

Find the cube root of 287496.

- A 64
- B 46
- C 56
- D 66

Answer: D

Explanation:

$$\text{Cube root of } 287496 = \sqrt[3]{287496}$$

$$= \sqrt[3]{216 \times 1331}$$

$$= \sqrt[3]{(6)^3 \times (11)^3}$$

$$= 6 \times 11 = 66$$

=> Ans - (D)

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Question 2

Arrange the following in descending order.

$$\sqrt[4]{5}, \sqrt[3]{4} \text{ and } \sqrt[4]{6}$$

- A $\sqrt[4]{6} > \sqrt[3]{4} > \sqrt[4]{5}$
- B $\sqrt[4]{6} > \sqrt[4]{5} > \sqrt[3]{4}$
- C $\sqrt[3]{4} > \sqrt[4]{5} > \sqrt[4]{6}$
- D $\sqrt[3]{4} > \sqrt[4]{6} > \sqrt[4]{5}$

Answer: D

Explanation:

$$\text{Terms : } \sqrt[4]{5}, \sqrt[3]{4} \text{ and } \sqrt[4]{6}$$

Multiplying the exponents by L.C.M. (4,3,4) = 12

$$\Rightarrow (5)^{\frac{12}{4}}, (4)^{\frac{12}{3}} \text{ and } (6)^{\frac{12}{4}}$$

$$= 5^3, 4^4, 6^3$$

$$= 125, 256, 216$$

Thus, in descending order = $256 > 216 > 125$

$$\equiv \sqrt[3]{4} > \sqrt[4]{6} > \sqrt[4]{5}$$

=> Ans - (D)

Question 3

What is the total length intercepted between both the axes by the line $8x+4y=40$?

- A 5
- B 10
- C 15
- D 20

Answer: C

Explanation:

Equation of line = $8x + 4y = 40$

$$\Rightarrow \frac{8x}{40} + \frac{4y}{40} = 1$$

$$\Rightarrow \frac{x}{5} + \frac{y}{10} = 1$$

Thus, total length intercepted = $5 + 10 = 15$

\Rightarrow Ans - (C)

Question 4

The average of two numbers is 10 and the product of two numbers is 96. Find the two numbers.

- A 3, 32
- B 12, 8
- C 1, 96
- D 24, 4

Answer: B

Explanation:

Let the numbers be x and y

$$\text{Average} = \frac{(x+y)}{2} = 10$$

$$\Rightarrow x + y = 10 \times 2 = 20 \text{ -----(i)}$$

$$\text{Product} = xy = 96 \text{ -----(ii)}$$

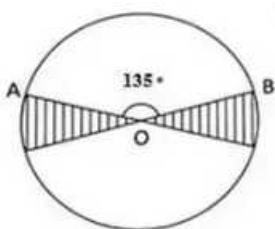
Solving above equations, we get : $x = 12$ and $y = 8$

\Rightarrow Ans - (B)

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Question 5

Consider the circle shown below having angle AOB as 135° and the shaded portion is the x part of the circular region. Calculate the value of x .



- A $\frac{1}{12}$

B $\frac{1}{9}$

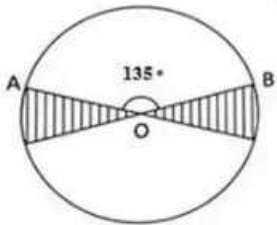
C $\frac{1}{6}$

D $\frac{1}{4}$



Answer: D

Explanation:



Area of both unshaded parts = $\frac{\theta}{360^\circ} \times \pi r^2$

= $2 \times \frac{135}{360} \times \pi r^2$

= $\frac{3}{4} \pi r^2$

Area of complete circle = πr^2

\therefore Area of shaded region = $\pi r^2 - \frac{3}{4} \pi r^2 = \frac{1}{4} \pi r^2$

\Rightarrow Shaded portion is $\frac{1}{4}$ of circular region.

\Rightarrow Ans - (D)

Question 6

Consider the two similar triangles ABC and DEF. Which of the following is correct about the ratio of the area of the triangle ABC and DEF?

A $\left(\frac{AB}{DE}\right) = \left(\frac{EF}{BC}\right) = \left(\frac{AC}{DF}\right)$

B $\left(\frac{AB}{DE}\right)^2 = \left(\frac{BC}{EF}\right)^2 = \left(\frac{AC}{DF}\right)^2$

C $\left(\frac{AB}{DE}\right) = \left(\frac{BC}{EF}\right) = \left(\frac{DF}{AC}\right)$

D None of these

Answer: B

Explanation:

It is given that $\triangle ABC \sim \triangle DEF$

$\Rightarrow \frac{AB}{DE} = \frac{BC}{EF} = \frac{AC}{DF}$

Also, ratio of areas of two similar triangles is equal to the ratio of the square of the corresponding sides.

$\Rightarrow \frac{ar(\triangle ABC)}{ar(\triangle DEF)} = \left(\frac{AB}{DE}\right)^2 = \left(\frac{BC}{EF}\right)^2 = \left(\frac{AC}{DF}\right)^2$

\Rightarrow Ans - (B)

Question 7

Out of two numbers, 30% of the smaller number is equal to 18% of the larger number. If the sum of the two numbers is 840, then what is the value of the larger number?

A 545

B 507

C 515

D 525

Answer: D

Explanation:

Let the smaller number be x and larger number = $(840 - x)$

According to ques,

$$\Rightarrow \frac{30}{100} \times (x) = \frac{18}{100} \times (840 - x)$$

$$\Rightarrow 30x = (18 \times 840) - 18x$$

$$\Rightarrow 30x + 18x = 18 \times 840$$

$$\Rightarrow x = \frac{18 \times 840}{48} = 315$$

$$\therefore \text{Larger number} = 840 - 315 = 525$$

\Rightarrow Ans - (D)

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Question 8

If $\frac{3}{5}$ of x is equal to $\frac{4}{9}$ of y , then what is the ratio of x and y ?

A 11 : 15

B 15 : 23

C 20 : 27

D 14 : 25

Answer: C

Explanation:

$$\text{Given : } \frac{3}{5}x = \frac{4}{9}y$$

$$\Rightarrow y = \frac{4}{9} \times \frac{5}{3}x$$

$$\Rightarrow y = \frac{20}{27}x$$

$$\therefore \text{Ratio} = x : y = 20 : 27$$

\Rightarrow Ans - (C)

Question 9

In what ratio rice costing Rs 14/kg mixed with another rice costing Rs 11/kg to get the mixture costing Rs 11.6/kg?

A 2 : 5

B 1 : 4

C 1 : 3

D 1 : 5

Answer: B

Explanation:

Let quantity of Rs. 14/kg and Rs. 11/kg rice mixed be x and y kg respectively.

According to ques,

$$\Rightarrow 14x + 11y = 11.6(x + y)$$

$$\Rightarrow 14x + 11y = 11.6x + 11.6y$$

$$\Rightarrow 14x - 11.6x = 11.6y - 11y$$

$$\Rightarrow 2.4x = 0.6y$$

$$\Rightarrow \frac{x}{y} = \frac{0.6}{2.4} = \frac{1}{4}$$

∴ Required ratio = 1 : 4

⇒ Ans - (B)

Question 10

Average age of 4 daughters of a family is 12 years. The average age of daughters and their parents is 26 years. If the mother is 4 years older than the father, then what is the age (in years) of the father?

A 56

B 52

C 48

D 44

Answer: B

Explanation:

Average age of 4 daughters of a family = 12 years

$$\Rightarrow \text{Sum of daughter's age} = 12 \times 4 = 48 \text{ years}$$

Average age of daughters and their parents = 26 years

$$\Rightarrow \text{Sum of ages of 4 daughters and 2 parents} = 26 \times 6 = 156 \text{ years}$$

$$\Rightarrow \text{Sum of parents age} = 156 - 48 = 108 \text{ years} \text{ -----(i)}$$

Let father's age = x years, ⇒ Mother's age = $(x + 4)$ years

Substituting in equation (i),

$$\Rightarrow x + x + 4 = 108$$

$$\Rightarrow 2x = 108 - 4 = 104$$

$$\Rightarrow x = \frac{104}{2} = 52 \text{ years}$$

⇒ Ans - (B)

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Question 11

A sum of Rs 20000 becomes Rs 32000 in 12 years, when invested in a scheme of simple interest. If the same sum is invested in a scheme of compound interest with same yearly interest rate (compounding of interest is done yearly), then what will be the amount (in Rs) after 2 years?

A 21750

B 22050

C 23250

D 24650

Answer: B

Explanation:

Principal sum = Rs. 20,000 and time period = 12 years

=> Amount after simple interest = Rs. 32,000

Thus, simple interest = Rs. (32,000-20,000) = Rs. 12,000

Let rate of interest = $r\%$

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

=> $\frac{20,000 \times r \times 12}{100} = 12,000$

=> $2400r = 12000$

=> $r = \frac{12000}{2400} = 5\%$

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

= $20,000(1 + \frac{5}{100})^2$

= $20,000(1 + \frac{1}{20})^2 = 4000(\frac{21}{20})^2$

= $20,000 \times \frac{441}{400}$

= $50 \times 441 = Rs. 22,050$

=> Ans - (B)

Question 12

N professes to lose 25% on rice and uses a weight of 750 gm instead of 1 kg. What is the total profit or loss percentage?

- A 5.25% profit
- B 12.5% profit
- C No profit/loss
- D 5.25% loss

Answer: C

Explanation:

Let cost price of N = Rs. 1000/kg = Re. 1/gm

Loss % = 25%

=> Selling price = Rs. 750/750 gm = Re. 1/gm

Since, both the cost price and selling price are equal, thus N has no profit or loss.

=> Ans - (C)

Question 13

Two successive discounts of 12% and 20% are given by Rajat on a shirt. If the marked price of the shirt is Rs 500, then what is the value (in Rs) of discount?

- A 198
- B 152
- C 148
- D 168

Answer: C

Explanation:

Marked price = Rs. 500

Amount deducted on 1st discount of 12% = $\frac{12}{100} \times 500 = \text{Rs. } 60$

Thus, net price = $500 - 60 = \text{Rs. } 440$

Amount deducted on 2nd discount of 20% = $\frac{20}{100} \times 440 = \text{Rs. } 88$

=> Value (in Rs) of discount = $60 + 88 = 148$

=> Ans - (C)

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Question 14

If $\sqrt{21} = 4.58$, then what is the simplified value of $(8\sqrt[3]{7} - 3\sqrt[7]{3})$?

A 0.474

B 0.752

C 0.655

D 1

Answer: C

Explanation:

Given : $\sqrt{21} = 4.58$

To find : $(8\sqrt[3]{7} - 3\sqrt[7]{3})$

$$= \frac{(8 \times 3) - (3 \times 7)}{\sqrt{21}}$$

$$= \frac{(24 - 21)}{\sqrt{21}} = \frac{3}{\sqrt{21}}$$

$$= \frac{3}{4.58} \approx 0.655$$

=> Ans - (C)

Question 15

S does half as much work as T in 1/7 of the time taken by T. If together they take 21 days to complete a work, then how many days shall S take to complete that work alone?

A 26

B 27

C 28

D 32

Answer: B

Explanation:

Let time taken by T to complete the work = $7x$ days

=> S can do 1/2 work in = $\frac{1}{7} \times 7x = x$ days

So, time taken by S to complete the work = $2x$ days

Let total work to be done = L.C.M ($7x, 2x$) = $14x$ units

=> T's efficiency = $\frac{14x}{7x} = 2$ units/day

Similarly, S's efficiency = $\frac{14x}{2x} = 7$ units/day

Now, total time taken by both S and T together = $21(2 + 7) = 14x$

=> $3 \times 9 = 2x$

=> $x = \frac{27}{2} = 13.5$

∴ Time taken by S to complete work alone = $2 \times 13.5 = 27$ days

=> Ans - (B)

Question 16

A boy walking at the speed of 4 km/hr covers a certain distance in 6 hours 15 minutes. If he covers the same distance by cycle in 5 hours, then what is the speed (in km/hr) of the cycle?

A 4.5

B 5

C 6

D 6.5

Answer: B

Explanation:

Walking speed of boy = 4 km/hr

Time taken = 6 hrs 15 minutes = $6\frac{1}{4}$ hours

=> Distance travelled = $4 \times \frac{25}{4} = 25$ km

Now, time taken to cover the same distance on cycle = 5 hours

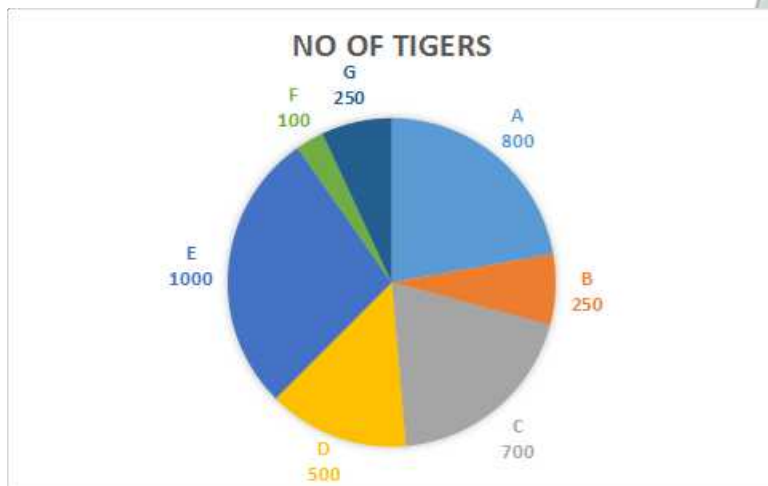
=> Speed of cycle = $\frac{25}{5} = 5$ km/hr

=> Ans - (B)

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Instructions

The pie chart shows the number of tigers in all the tiger wild life sanctuaries in the country. Study the diagram and answer the following questions.



Question 17

The least number of tigers are in which sanctuary?

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

Answer: B

Explanation:

The least number of tigers are in sanctuary F = 100

=> Ans - (B)

Question 18

What is the total number of tigers in these sanctuaries?

- A 2400
- B 4200
- C 3000
- D 3600

Answer: D

Explanation:

Total number of tigers in these sanctuaries

$$= 800 + 250 + 700 + 500 + 1000 + 100 + 250$$

$$= 3600$$

=> Ans - (D)

Question 19

The measure of the central angle of the sector representing the number of tigers in Sanctuary E is _____ degrees.

- A 80
- B 120
- C 90
- D 100

Answer: D

Explanation:

Number of tigers in Sanctuary E = 1000

Total number of tigers in these sanctuaries

$$= 800 + 250 + 700 + 500 + 1000 + 100 + 250 = 3600$$

$$\Rightarrow \text{Required central angle} = \frac{1000}{3600} \times 360^\circ$$

$$= \frac{1000}{10} = 100^\circ$$

=> Ans - (D)

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Question 20

If the average area occupied by each tiger in these sanctuaries is 90 sq km, then what is the total area (in 1000 sq km) of these sanctuaries?

- A 412
- B 508
- C 324
- D 544

Answer: C

Explanation:

Total number of tigers in these sanctuaries

$$= 800 + 250 + 700 + 500 + 1000 + 100 + 250 = 3600$$

Average area occupied by each tiger in these sanctuaries = 90 sq km

$$\text{Total area (in 1000 sq km) of these sanctuaries} = 36 \times 9 = 324$$

=> Ans - (C)

Instructions

For the following questions answer them individually

Question 21

If the lengths of the two parallel sides of a trapezium are 5 cm and 7 cm and the distance between these parallel sides is 4 cm. Find its area ($incm^2$)

- A 12
- B 24
- C 48
- D 36

Answer: B

Explanation:

Distance between parallel sides = height of trapezium = 4 cm

$$\Rightarrow \text{Sum of lengths of parallel sides} = 7 + 5 = 12 \text{ cm}$$

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

$$= \frac{1}{2} \times 12 \times 4$$

$$= \frac{48}{2} = 24 \text{ cm}^2$$

=> Ans - (B)

Question 22

What is the measure of an interior angle of a regular polygon of 8 sides?

- A 140
- B 144

C 135

D 150

Answer: C

Explanation:

Sum of all interior angles of a polygon with ' n ' sides = $(n - 2) \times 180^\circ$

=> Sum of angles of an octagon = $(8 - 2) \times 180^\circ$

= $6 \times 180^\circ = 1080^\circ$

∴ Measure of each interior angle of a regular polygon of 8 sides = $\frac{1080^\circ}{8} = 135^\circ$

=> Ans - (C)

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Question 23

Find the volume ($incm^3$) of a right circular cone of diameter 7 cm and height 7 cm.

A 69.06

B 16.43

C 11.15

D 89.83

Answer: D

Explanation:

Height of cone = $h = 7$ cm and radius of cone = $r = 3.5$ cm

=> Volume of cone = $\frac{1}{3}\pi r^2 h$

= $\frac{1}{3} \times \frac{22}{7} \times (3.5)^2 \times 7$

= $\frac{22 \times 12.25}{3} = 89.83 cm^3$

=> Ans - (D)

Question 24

What is the value of $(\operatorname{cosec}60^\circ - \frac{1}{2})$

A $\frac{4-\sqrt{3}}{2\sqrt{3}}$

B $\frac{2\sqrt{3}-1}{\sqrt{3}}$

C $\frac{3\sqrt{3}-1}{3}$

D $\frac{1}{\sqrt{3}}$

Answer: A

Explanation:

Expression : $(\operatorname{cosec}60^\circ - \frac{1}{2})$

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

$$\frac{4-\sqrt{3}}{2\sqrt{3}}$$

=> Ans - (A)

Question 25

In $\triangle DEF$ measure of angle E is 90° . If $\cot D = \frac{5}{12}$, and $DE = 1$ cm, then what is the length (in cm) of side EF?

A 2.4

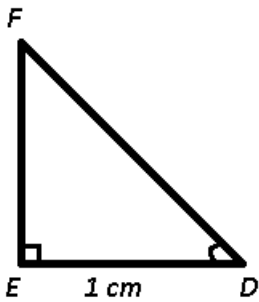
B 2.6

C 1.5

D 2

Answer: A

Explanation:



Given : $DE = 1$ cm and $\cot D = \frac{5}{12}$

To find : $EF = ?$

Solution : In right $\triangle DEF$,

$$\Rightarrow \cot(D) = \frac{DE}{EF}$$

$$\Rightarrow \frac{5}{12} = \frac{1}{EF}$$

$$\Rightarrow EF = \frac{12}{5} \times 1 = 2.4 \text{ cm}$$

=> Ans - (A)

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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.

Wheel : Cycle :: ? : ?

A Fan : Blades

B Cockpit : Aeroplane

C Book : Chapter

D Pen : Write

Answer: B

Explanation:

Expression = Wheel : Cycle :: ? : ?

The second is incomplete without first, i.e. a cycle is nothing without wheels, similarly cockpit (compartment for pilot) is required to fly an aeroplane.

=> Ans - (B)

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Question 27

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

49 : 147 :: ? : ?

A 71 : 203

B 63 : 189

C 55 : 175

D 69 : 217

Answer: B

Explanation:

Expression = 49 : 147 :: ? : ?

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

Eg :- $3 \times 49 = 147$

The above condition is satisfied only in = $3 \times 63 = 189$

=> Ans - (B)

Question 28

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

LJK : IGH :: PST : ?

A NRQ

B RUV

C MPQ

D RVU

Answer: C

Explanation:

Expression = LJK : IGH :: PST : ?

The pattern followed is :

L	J	K
(-3)	(-3)	(-3)
I	G	H

Similarly, for PST : **MPQ**

P	S	T
(-3)	(-3)	(-3)
M	P	Q

=> Ans - (C)

Question 29

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

- A Ball
- B Bat
- C Wickets
- D Ground

Answer: D

Explanation:

Ball, bat and wickets are the primary tool used to play cricket in the ground, hence **ground** 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 21 - 42
- B 23 - 46
- C 31 - 62
- D 33 - 69

Answer: D

Explanation:

The second number is double the first number.

$$21 \times 2 = 42$$

$$23 \times 2 = 46$$

$$31 \times 2 = 62$$

$$33 \times 2 = 66 \neq 69$$

=> Ans - (D)

Question 31

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

- A RMHC
- B XSNI
- C YTOJ

D ZVQL

Answer: D

Explanation:

(A) : R (-5 letters) = M (-5 letters) = H (-5 letters) = C

(B) : X (-5 letters) = S (-5 letters) = N (-5 letters) = I

(C) : Y (-5 letters) = T (-5 letters) = O (-5 letters) = J

(D) : Z (-4 letters) = V (-5 letters) = Q (-5 letters) = L

=> Ans - (D)

Question 32

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

1. Doubled
2. Dragged
3. Doubling
4. Dragging
5. Draw

A Dragged

B Dragging

C Doubled

D Doubling

Answer: A

Explanation:

As per the order of dictionary :

= Doubled -> Doubling -> Dragged -> Dragging -> Draw

Thus, the third word = **Dragged**

=> Ans - (A)

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Question 33

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

91, 100, 118, 145, ?, 226

A 161

B 215

C 181

D 202

Answer: C

Explanation:

Multiples of 9 are added.

$91 + 9 = 100$

$100 + 18 = 118$

$118 + 27 = 145$

$145 + 36 = 181$

$181 + 45 = 226$

=> 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.
LNP, MOQ, NPR, ?, PRT

A PQT

B OQS

C LQS

D LSQ

Answer: B

Explanation:

Series : LNP, MOQ, NPR, ?, PRT

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 : N (+1 letter) = O (+1 letter) = P (+1 letter) = Q (+1 letter) = R

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

Thus, missing term = **OQS**

=> Ans - (B)

Question 35

Pointing to a woman in the photograph Arun said, "She is the wife of the only child of my father". How is the woman related to Arun?

A Wife

B Niece

C Mother

D Daughter

Answer: A

Explanation:

Only child of Arun's father = Arun himself (=A)

Now, the girl is the wife of A, => A is husband of the girl

Thus, The woman is Arun's **wife**

=> Ans - (A)

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Question 36

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

A Cup

- B Louis
- C Sup
- D Rocs

Answer: B

Explanation:

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

=> Ans - (B)

Question 37

In a certain code language, "HORN" is written as "54" and "RHYM" is written as "63". How is "PURE" written in that code language?

- A 60
- B 59
- C 58
- D 61

Answer: B

Explanation:

The letters are numbered based on their position according to the English alphabetical order. A=1, B=2, C=3, D=4 and so on. The numbers are then added and one is subtracted to get the final result.

$$\text{Eg :- HORN} = (8 + 15 + 18 + 14) - 1 = 55 - 1 = 54$$

$$\text{RHYM} = (18 + 8 + 25 + 13) - 1 = 64 - 1 = 63$$

$$\text{Similarly, PURE} = (16 + 21 + 18 + 5) - 1 = 60 - 1 = 59$$

=> Ans - (B)

Question 38

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

$$20 \div 2 - 3 + 10 \times 6 = ?$$

- A 12
- B 30
- C 31
- D 23

Answer: D

Explanation:

Expression : $20 \div 2 - 3 + 10 \times 6 = ?$

$$\equiv 20 - 2 + 3 \times 10 \div 6$$

$$= 18 + \frac{30}{6}$$

$$= 18 + 5 = 23$$

=> Ans - (D)

Question 39

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

$$5 - 12 + 15 \div 50 \times 25 = 23$$

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

Answer: B

Explanation:

Expression : $5 - 12 + 15 \div 50 \times 25 = 23$

(A) : x and -

$$\begin{aligned} \text{L.H.S.} &= 5 \times 12 + 15 \div 50 - 25 \\ &= 60 + 0.3 - 25 = 35.3 \neq \text{R.H.S.} \end{aligned}$$

(B) : \div and x

$$\begin{aligned} \text{L.H.S.} &= 5 - 12 + 15 \times 50 \div 25 \\ &= -7 + (15 \times 2) = 23 = \text{R.H.S.} \end{aligned}$$

=> Ans - (B)

Question 40

If $18!10 = 4$, $10!4 = 3$ and $4!8 = -2$, then find the value of $16!18 = ?$

- A 2
- B -1
- C -8
- D 9

Answer: B

Explanation:

Given : $18!10 = 4$, $10!4 = 3$ and $4!8 = -2$

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

Eg :- $\frac{18-10}{2} = 4$

and $\frac{10-4}{2} = 3$ and $\frac{4-8}{2} = -2$

Similarly, $\frac{16-18}{2} = -1$

=> Ans - (B)

Question 41

Which of the following terms follows the trend of the given list?
RSPQPQPQ, PSRQPQPQ, PQRSPQPQ, PQPSRQPQ, PQQRSQPQ, _____.

- A PQQPQPQPQ
- B RSPQPQPQ

C PQQPSRQ

D PSRQPQPQ

Answer: C

Explanation:

Expression : RSPQPQPQ, PSRQPQPQ, PQRSPQPQ, PQPSRQPQ, PQPQRSPQ, _____.

The above series is a combination of 4 'PQ', but in each alternative term starting from the left, 1 set of PQ is replaced by RS and in the even number of terms, 1 set of QP is replaced by SR shifting one place to the right.

Thus, in the missing term (6th term), 3rd Q is replaced by S and following P by R = **PQQPSRQ**

=> Ans - (C)

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Question 42

A student cycles 2 km North, then turns West and cycles 2.5 km, then turns South and cycles 2 km, then turns to his left and cycles 4.5 km. Where is he now with respect to the starting position?

A 7 km East

B 2 km West

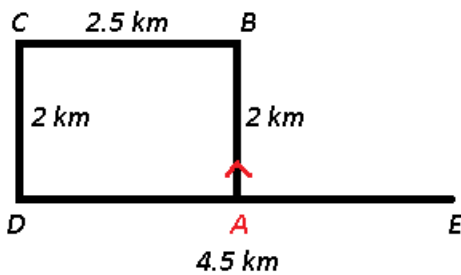
C 7 km West

D 2 km East

Answer: D

Explanation:

Let the student starts from point A and cycles 2 km North to reach B, then turns West and cycles 2.5 km to point C, then turns South and cycles 2 km, then turns to his left and cycles 4.5 km towards east to stop at point E.



=> $AE = 4.5 - 2.5 = 2 \text{ km}$

∴ He is **2 km east** with respect to the starting position.

=> Ans - (D)

Question 43

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

Statement I: Some rugs are carpets

Statement II: No mats are rugs

Conclusion I: All carpets are mats

Conclusion II: Some carpets are rugs

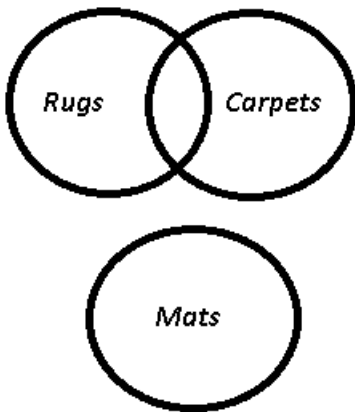
A Only conclusion I follows

- 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 :



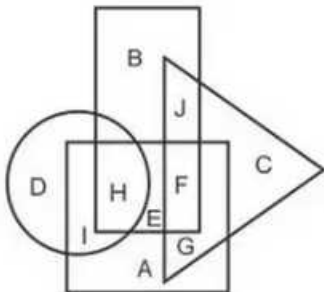
Conclusion I: All carpets are mats = false
 Conclusion II: Some carpets are rugs = true

Thus, only conclusion II follows.

=> Ans - (B)

Question 44

In the following figure, rectangle represents Cinematographers, circle represents Bloggers, triangle represents Potters and square represents Asians. Which set of letters represents Cinematographers who are neither Potters nor Asians?

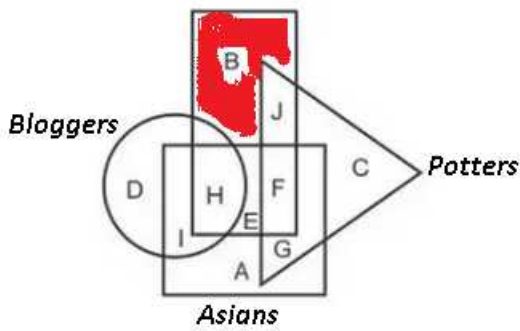


- A BJ
- B B
- C F
- D GF

Answer: B

Explanation:

Cinematographers



Cinematographers who are neither Potters nor Asians are represented by = B

=> Ans - (B)

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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.
KVS, QBY, WHE, CNK, ?

- A ITQ
- B HSP
- C JUR
- D KVS

Answer: A

Explanation:

Series : KVS, QBY, WHE, CNK, ?

The pattern followed in each letter of the terms is :

1st letter : K (+6 letters) = Q (+6 letters) = W (+6 letters) = C (+6 letters) = I

2nd letter : V (+6 letters) = B (+6 letters) = H (+6 letters) = N (+6 letters) = T

3rd letter : S (+6 letters) = Y (+6 letters) = E (+6 letters) = K (+6 letters) = Q

Thus, missing term = ITQ

=> Ans - (A)

Question 46

In the following question, select the missing number from the given series.
6, 11, 16, 21, 26, ?

- A 32
- B 33
- C 31
- D 29

Answer: C

Explanation:

'5' is added to all the numbers.

$$6 + 5 = 11$$

$$11 + 5 = 16$$

$$16 + 5 = 21$$

$$21 + 5 = 26$$

$$26 + 5 = 31$$

=> 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 (6, 25, 12)

B (7, 29, 15)

C (5, 21, 11)

D (11, 45, 23)

Answer: A

Explanation:

The numbers are of the form : $(x, 4x + 1, 2x + 1)$

But in the first option, we have $= 2 \times 6 + 1 = 13 \neq 12$

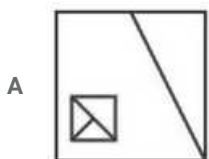
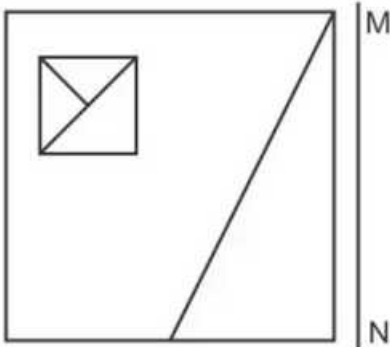
Thus, (6, 25, 12) is the odd one out.

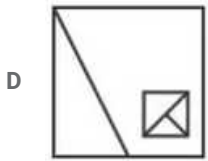
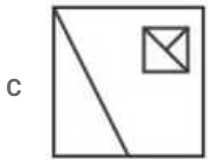
=> Ans - (A)

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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 vertical mirror is placed, so the object on the left will appear right in reverse position and vice-versa.

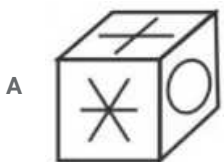
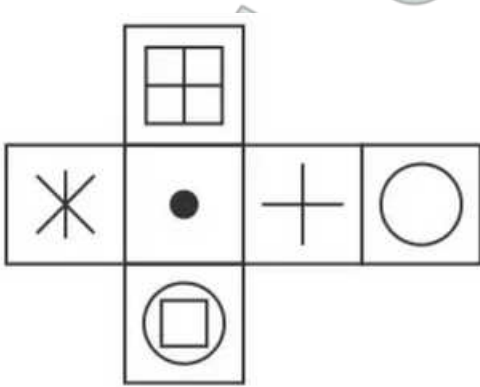
So the diagonal originating from top right will now appear at top left, thus the first two options will be eliminated.

Also, in the question figure, the square at top left will appear at top right side, hence third option is the right image.

=> Ans - (C)

Question 49

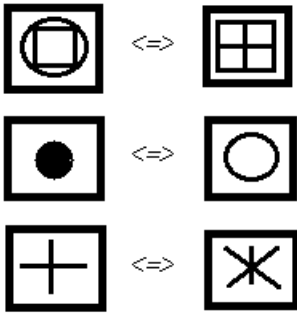
Which of the following cube in the answer figure cannot be made based on the unfolded cube in the question figure?



Answer: A

Explanation:

When we fold the given figure, the square with a 'dot' 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 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 numbers from 0 to 4 and that of Matrix-II are numbers from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, for example 'B' can be represented by 12, 24 etc and 'O' can be represented by 85, 77 etc. Similarly, you have to identify the set for the word 'FARE'.

Matrix - I

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

Matrix - II

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

- A 34,99,43,68
- B 24,97,34,57
- C 10,33,67,43
- D 24,65,44,56

Answer: C

Explanation:

- (A) : 34,99,43,68 = KVEQ
- (B) : 24,97,34,57 = BVKV
- (C) : 10,33,67,43 = **FARE**
- (D) : 24,65,44,56 = BWFY

=> Ans - (C)

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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 injustice from the sentence pronounced (a) above that great scientist, is (b) now evident to us all. (c) No error (d)

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

Answer: B

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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'

Swami Vivekananda died very young in his early thirties, (a) but the phenomenal achievements he is credit with (b) are for generations to remember. (c) No error(d)

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

Answer: B

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.

She will surely pass if she _____ harder.

- A had studied
- B studied
- C studies
- D was studying

Answer: C

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.

Corruption not only generates black money but _____ criminals.

- A creeps
- B breeds
- C deeds
- D seeds

Answer: B

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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.
Divisive

- A Agreeing
- B Conflicting
- C Cooperating
- D Unifying

Answer: B

Question 56

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

- A Complain
- B Trick
- C Gesture
- D Laugh

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.
Vigilant

- A Observant
- B Aroused
- C Numb
- D Active

Answer: C

Question 58

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

- A Sparse
- B Productive
- C Rich
- D Pregnant

Answer: A

Question 59

Rearrange the parts of the sentence in correct order.

**The traditional obstacle to
P : the education of girls is
Q : the prejudice against the
R : intellectual potential of girls**

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

Answer: C

Question 60

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

Everyone enjoyed the scene.

- A The scene has been enjoyed by everyone.
- B The scene was enjoyed by everyone.
- C The scene was enjoyed for everyone.
- D The scene was appreciated by everyone.

Answer: B

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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.

He said to me, "I go for a walk daily."

- A He told me that he went for a walk daily.

- B He told me that he goes for a walk daily.
- C He told me that he daily went for a walk.
- D He told me that he had gone for a walk daily.

Answer: B

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 Sichology
- B Psychology
- C Sighchology
- D Sychology

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.

The result is that the impact of humanities and liberal arts on _____ action and day-to-day activities seems to be distinctly on the wane. _____ and conventional approaches of teaching coupled with stasis that makes them traverse the _____ beaten path of course curricula isn't helping society see the relevance of humanities and social science _____ a technology-driven, changing world. The approach inevitably will be nuanced and there will be a need to tweak the course content and fine-tune it to come _____ with newer products to stay relevant and act as a facilitator to business and industry.

Question 63

and liberal arts on _____ action and day-to-day

- A humane
- B humanly
- C human
- D humanity

Answer: C

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Question 64

on the wane. _____ and conventional approaches

- A Tradition
- B Traditions
- C Traditional
- D Traditionally

Answer: C

Question 65

them traverse the _____ beaten path of course

- A similarly
- B as same as
- C same
- D similarity

Answer: C

Question 66

social science _____ a technology-driven,

- A in
- B into
- C on
- D onto

Answer: A

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Question 67

fine-tune it to come _____ with newer products

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

Answer: A

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. The last straw

- A A warrior saves his best arrow for the last.
- B A minor difficulty but coming on top of a series of difficulties, that makes a situation unbearable.
- C The student who usually comes last in the class.
- D The lowest ranking official who gets the blame for any error.

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.
New kid on the block

- A A person who is acting smart to impress others.
- B Be inexperienced in company of veterans.
- C To block the path of success of outsiders.
- D Newcomer to a particular place or sphere of activity.

Answer: D

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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.
The rejection of all religious and moral principles, in the belief that life is meaningless

- A Nihilism
- B Certitude
- C Credence
- D Fidelity

Answer: A

Question 71

In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.
Be an expression of or give a tangible or visible form to an idea, quality, or feeling

- A Spectre
- B Revenant
- C Embody
- D Apparition

Answer: C

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".

With time now available for leisure, my father (discover) a new side to himself.

- A discovering
- B has discovered
- C had discover
- D no improvement

Answer: B

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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".

The sun hid behind a cloud and it seemed like a light (have been switched) off.

- A had been switched
- B had been switch
- C have been switching
- D no improvement

Answer: A

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.

There were too

- A : many doubts that cropped up every
- B : seniors for clarity and resolution
- C : now and then and I would run to my

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

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 circummventing
- B circumvanting
- C circumventing
- D circummvanting

Answer: C

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General Awareness

Instructions

For the following questions answer them individually

Question 76

"Functional Finance" is associated with: _____.

- A Adams
- B Adam Smith
- C Adolph Wogner
- D Abba P Lerner

Answer: D

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Question 77

Which of the following should always be balanced in the foreign trade of India?

- A Balance of Trade
- B Balance of Payment
- C Balance of Current Account
- D No option is correct.

Answer: B

Question 78

The boundary of which country does not seem to touch the Caspian sea?

- A Azerbaijan
- B Russia
- C Ukraine
- D Turkmenistan

Answer: C

Question 79

Kapildhara Falls is situated on which river?

- A Tapi
- B Sharavati
- C Narmada
- D Indravati

Answer: C

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Question 80

Which of the following books is NOT of Surdas?

- A Sursatsai
- B Sur Saravali
- C Sahitya Lahari
- D Sursagar

Answer: A

Question 81

French established their first factory at Surat and second factory at _____.

- A Banaras
- B Calcutta
- C Mumbai
- D Masulipatnam

Answer: D

Question 82

Which of the following pairs (school of paintings and region where it flourished) is correctly matched?

- A Kalighat Paintings - Kolkata
- B Phad (scroll paintings) - Punjab
- C Madhubani Paintings - Bihar
- D Kalamkari - Andhra Pradesh

Answer: B

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Question 83

Which city of Israel has been recognized as its New Capital by the United States of America?

- A Jerusalem
- B Haifa
- C Bersheba
- D Tel Aviv

Answer: A

Question 84

The Ministry of Labour and Employment, in January 2018, announced how many persons for Prime Minister's Shram Awards for the year 2016?

- A 16
- B 34
- C 50
- D 64

Answer: C

Question 85

Which of the following crop is major foreign exchange earner for Sri Lanka?

- A Rice
- B Apparel
- C Tea
- D Apparel and Tea both

Answer: D

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Question 86

Which among the following noble gas has highest molar mass?

- A Kr
- B Ne
- C Ar
- D Xe

Answer: D

Question 87

Which of the following electromagnetic waves has minimum wavelength?

- A Alpha
- B Gamma
- C Infrared
- D X-rays

Answer: B

Question 88

There are three types of lists in Indian Constitution, viz., the Union List, the State list and the _____.

- A District List
- B Panchayat List
- C Concurrent List
- D No option is correct

Answer: C

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Question 89

In India, The President's Rule continues for six months, but it can be extended for a maximum period of _____ with the approval of the Parliament, every six months.

- A one year
- B two years
- C three years
- D four years

Answer: C

Question 90

Match the following:



Type of muscle tissue	Location
I. Striated	1. Heart
II. Smooth	2. Limbs
III. Cardiac	3. Iris of the eye, in ureters and in bronchi of the lungs

- A I - 2, II - 3, III - 1
- B I - 1, II - 3, III - 2
- C I - 1, II - 2, III - 3
- D I - 3, II - 1, III - 2

Answer: A

Explanation:

Cardiac tissue is located in the heart, striated muscle in the limbs, and smooth tissue in the iris of the eye.

Thus, the correct order is : I - 2, II - 3, III - 1

=> Ans - (A)

Question 91

In Angiosperms, plant embryos in seed have structures called _____.

- A Spore
- B Buds
- C Sprout

D Cotyledon

Answer: D

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Question 92

'Swachh Bharat Mission' aims to achieve an Open Defecation Free (ODF) India by which date?

A 2 October, 2020

B 2 October, 2018

C 2 October, 2019

D 2 October, 2022

Answer: C

Question 93

On 22 November, 2017 the Indian Air Force successfully test fired an air launched BrahMos from a _____ fighter aircraft.

A Mirage-2000

B Sukhoi Su-30 MKI

C Mig-29

D HAL Tejas

Answer: B

Question 94

In October 2017, 'PFMS' was made mandatory. It will help to _____.

A provide security to schemes

B Monitor fund flow to schemes

C To describe benefit of schemes

D No option is correct.

Answer: B

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Question 95

On 30 January 2018, who among the following called for simultaneous elections to Lok Sabha and state assemblies?

A The President of India

B The Finance Minister of India

C The Speaker of Lok Sabha

D The Chief Justice of India

Answer: A

Question 96

Calculate the pressure (in Pa) if a thrust of 1000 N is applied to an area of $5m^2$.

- A 200
- B 50
- C 100
- D 25

Answer: A

Question 97

1 kWh = _____ $\times 106$ J.

- A 36
- B 3.6
- C 6.4
- D 64

Answer: B

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Question 98

Underground water and the water on the earth's surface is called _____.

- A hydrosphere
- B biosphere
- C lithosphere
- D thermosphere

Answer: A

Question 99

Which of the statements given below are correct?

- A) Max Verstappen won the Formula One 2017 Singapore Grand Prix.
- B) In 2017, Mohamed Salah played for the Premier League team Liverpool.
- C) Jelena Ostapenko won the Tennis 2017 Australian Open Women's Singles.

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

Answer: B

Question 100

Every HTML file is a _____ file.

- A Text
- B Audio
- C Video
- D Image

Answer: A

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