



SSC CHSL 13 March 2018 Morning Shift

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Instructions

For the following questions answer them individually

Question 1

7/15 of 5/3 of a number is greater than 7/9 of 3/5 of the same number by 9. Find the quadruple of the number.

- A 115.72
- B 114.72
- C 113.72
- D 112.72

Answer: A

Explanation:

Let the number be $45x$

According to ques,

$$\Rightarrow \left(\frac{7}{15} \times \frac{5}{3} \times 45x \right) - \left(\frac{7}{9} \times \frac{3}{5} \times 45x \right) = 9$$

$$\Rightarrow 35x - 21x = 9$$

$$\Rightarrow x = \frac{9}{14}$$

\therefore Quadruple of the number = $4 \times 45x$

$$= 180 \times \frac{9}{14} \approx 115.72$$

\Rightarrow Ans - (A)

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Question 2

In a farm, in addition to 48 hens there are 42 sheep and 11 oxen with some shepherds. If the total number of feet be 224 more than the number of heads, find the number of shepherd.

- A 11
- B 13
- C 15
- D 17

Answer: D

Explanation:

Let there are x shepherds.

$$\Rightarrow \text{Number of heads} = 48 + 42 + 11 + x = (x + 101)$$

$$\text{Number of legs} = (48 \times 2) + (42 \times 4) + (11 \times 4) + (x \times 2)$$

$$= 96 + 168 + 44 + 2x = (2x + 308)$$

According to ques,

$$\Rightarrow (2x + 308) - (x + 101) = 224$$

$$\Rightarrow x + 207 = 224$$

$$\Rightarrow x = 224 - 207 = 17$$

\Rightarrow Ans - (D)

Question 3

Which of the following value of 'X' satisfies the equation $81^{4x+4} = 243^{2x+8}$?

A 3

B 4

C 5

D 6

Answer: B

Explanation:

$$\text{Expression : } 81^{4x+4} = 243^{2x+8}$$

$$\Rightarrow (3^4)^{4x+4} = (3^5)^{2x+8}$$

$$\Rightarrow (3)^{16x+16} = (3)^{10x+40}$$

$$\Rightarrow 16x + 16 = 10x + 40$$

$$\Rightarrow 16x - 10x = 40 - 16$$

$$\Rightarrow 6x = 24$$

$$\Rightarrow x = \frac{24}{6} = 4$$

\Rightarrow Ans - (B)

Question 4

What will be the value of $r^2 + p^2 + s^2 - rp - ps - rs$ where $r = 1, p = 2, s = 3$

A 1

B 2

C 3

D 0

Answer: C

Explanation:

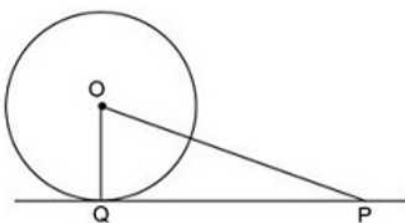
$$\text{Given, } r = 1, p = 2, s = 3$$

$$\therefore r^2 + p^2 + s^2 - rp - ps - rs = (1)^2 + (2)^2 + (3)^2 - (1)(2) - (2)(3) - (1)(3) = 1 + 4 + 9 - 2 - 6 - 3 = 3$$

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Question 5

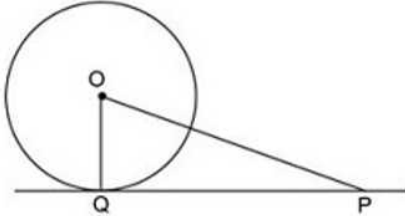
Calculate the length (in cm) of PQ, if the radius of the circle is 7 cm and the line through the centre O meets the tangent at point P such that OP = 25 cm.



- A 20
- B 22
- C 24
- D 26

Answer: C

Explanation:



Given : $OQ = 7$ cm and $OP = 25$ cm

To find : $PQ = ?$

Solution : In right $\triangle POQ$

$$\Rightarrow (PQ)^2 = (OP)^2 - (OQ)^2$$

$$\Rightarrow (PQ)^2 = (25)^2 - (7)^2$$

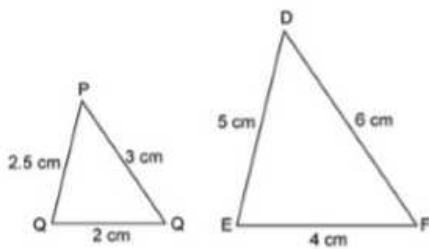
$$\Rightarrow (PQ)^2 = 625 - 49 = 576$$

$$\Rightarrow PQ = \sqrt{576} = 24 \text{ cm}$$

\Rightarrow Ans - (C)

Question 6

Consider the following figure shown below and choose which of the following equation is correct about the similarity of both triangles?

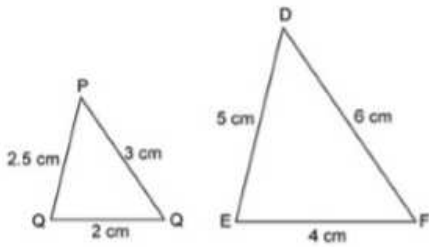


- A $\triangle PQR \sim \triangle EFD$
- B $\triangle PQR \sim \triangle DEF$
- C $\triangle PQR \sim \triangle FDE$
- D $\triangle RQP \sim \triangle DFE$

Answer: B

Explanation:

If we compare the corresponding sides of two triangles,



$$\Rightarrow \frac{PQ}{DE} = \frac{2.5}{5} = \frac{1}{2}$$

$$\text{Similarly, } \frac{QR}{EF} = \frac{PR}{DF} = \frac{1}{2}$$

Since, ratio of all corresponding sides is equal, then $\triangle PQR \sim \triangle DEF$

\Rightarrow Ans - (B)

Question 7

If $y\%$ of y is 289, then what is the value of y ?

- A 149
- B 160
- C 170
- D 173

Answer: C

Explanation:

Given : $y\%$ of $y = 289$

$$\Rightarrow \frac{y}{100} \times y = 289$$

$$\Rightarrow y^2 = 289 \times 100$$

$$\Rightarrow y = \sqrt{289 \times 100}$$

$$\Rightarrow y = 17 \times 10 = 170$$

\Rightarrow Ans - (C)

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Question 8

P, Q and R are partners in a company. In any year P receives $\frac{1}{9}$ part of profit, Q receives $\frac{1}{6}$ part of profit and R receives Rs 130000. How much amount (in Rs) will P get as profit?

- A 40000
- B 36000
- C 18000
- D 20000

Answer: D

Explanation:

Let total profit earned = Rs. $18x$

$$\text{Profit earned by P} = \frac{1}{9} \times 18x = 2x$$

$$\text{Profit earned by Q} = \frac{1}{6} \times 18x = 3x$$

$$\Rightarrow \text{Profit earned by R} = 18x - (2x + 3x) = 13x$$

According to ques,

$$\Rightarrow 13x = 130,000$$

$$\Rightarrow x = \frac{130,000}{13} = \text{Rs. } 10,000$$

$$\therefore \text{Amount earned by P as profit} = 2 \times 10,000 = \text{Rs. } 20,000$$

\Rightarrow Ans - (D)

Question 9

In a container, two types of liquids P and Q are in the ratio of 3 : 7. If 10 litres mixture is drawn off from the container and filled with 6 litres of liquid Q, then the ratio of P and Q becomes 1 : 3. What was the original quantity (in litres) of mixture?

A 34

B 36

C 30

D 40

Answer: D

Explanation:

Let original quantity of mixture = $100x$ litres

\Rightarrow Quantity of P = $30x$ and Q = $70x$ litres

If 10 litres mixture is drawn, \Rightarrow quantity of P taken out = 3 litres and Q = 7 litres

6 litres of liquid Q is added, thus new ratio

$$\Rightarrow \frac{30x-3}{70x-7+6} = \frac{1}{3}$$

$$\Rightarrow \frac{30x-3}{70x-1} = \frac{1}{3}$$

$$\Rightarrow 90x - 9 = 70x - 1$$

$$\Rightarrow 90x - 70x = 9 - 1$$

$$\Rightarrow 20x = 8$$

$$\Rightarrow x = \frac{8}{20} = 0.4$$

\therefore Original quantity of mixture = $100 \times 0.4 = 40$ litres

\Rightarrow Ans - (D)

Question 10

The average weight of 35 apples is 50 grams. If some apples of weight 40 grams each were removed, then average weight becomes 57.5 grams. How many apples of weight 40 grams were removed?

A 5

B 10

C 15

D 20

Answer: C

Explanation:

Average weight of 35 apples = 50 grams

=> Total weight of 35 apples = $50 \times 35 = 1750$ grams

Let n apples of 40 grams of weight were removed, then

$$\Rightarrow \frac{1750-40n}{35-n} = 57.5$$

$$\Rightarrow 1750 - 40n = 2012.5 - 57.5n$$

$$\Rightarrow 57.5n - 40n = 2012.5 - 1750$$

$$\Rightarrow 17.5n = 262.5$$

$$\Rightarrow n = \frac{262.5}{17.5} = 15$$

=> Ans - (C)

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Question 11

Simple interest on a sum for 18 months at 14% per annum is Rs 1365. What is the value (in Rs) of sum?

A 6100

B 7300

C 8100

D 6500

Answer: D

Explanation:

Let principal amount = Rs. x

Rate of interest = 14% and time period = $\frac{18}{12} = 1.5$ years

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

$$\Rightarrow \frac{x \times 14 \times 1.5}{100} = 1365$$

$$\Rightarrow \frac{21x}{100} = 1365$$

$$\Rightarrow x = \frac{1365 \times 100}{21}$$

$$\Rightarrow x = 65 \times 100 = \text{Rs. } 6500$$

=> Ans - (D)

Question 12

The difference between cost price and selling price is Rs 494. If loss percentage is 19%, then what is the selling price (in Rs)?

A 2106

B 2600

C 3094

D 2208

Answer: A

Explanation:

Difference between cost price and selling price = Loss = Rs. 494

$$\text{Loss \%} = \frac{\text{loss}}{C.P.} \times 100$$

$$\Rightarrow \frac{494}{CP} \times 100 = 19$$

$$\Rightarrow CP = \frac{49400}{19} = \text{Rs. } 2600$$

∴ Selling price = Rs. (2600 - 494) = Rs. 2106

⇒ Ans - (A)

Question 13

Manik marks the price of his toys 40% above the cost price. If he allows 20% discount, then what is the profit or loss percentage?

- A 4% profit
- B 12% profit
- C 8% loss
- D 12% loss

Answer: B

Explanation:

Let cost price = Rs. $100x$

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

Discount % = 20%

$$\Rightarrow \text{Selling price} = 140x - \left(\frac{20}{100} \times 140x\right) = \text{Rs. } 112x$$

∴ Selling price > Cost price, thus profit % = $\frac{(112x - 100x)}{100x} \times 100 = 12\%$

⇒ Ans - (B)

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Question 14

What is the simplified value of $\frac{1}{\sqrt{7}-\sqrt{16}} - \frac{1}{\sqrt{16}-\sqrt{15}} + \frac{1}{\sqrt{15}-\sqrt{14}} - \frac{1}{\sqrt{14}-\sqrt{13}} + \frac{1}{\sqrt{13}-\sqrt{12}}$

- A $4 - 2\sqrt{3}$
- B $\sqrt{17} - 3\sqrt{2}$
- C $\sqrt{17} + \sqrt{12}$
- D $4 + 2\sqrt{3}$

Answer: C

Explanation:

$$\text{Expression: } \frac{1}{\sqrt{17}-\sqrt{16}} - \frac{1}{\sqrt{16}-\sqrt{15}} + \frac{1}{\sqrt{15}-\sqrt{14}} - \frac{1}{\sqrt{14}-\sqrt{13}} + \frac{1}{\sqrt{13}-\sqrt{12}}$$

Rationalizing the denominator, we get :

$$= \left(\frac{1}{\sqrt{17}-\sqrt{16}} \times \frac{\sqrt{17}+\sqrt{16}}{\sqrt{17}+\sqrt{16}}\right) - \left(\frac{1}{\sqrt{16}-\sqrt{15}} \times \frac{\sqrt{16}+\sqrt{15}}{\sqrt{16}+\sqrt{15}}\right) + \left(\frac{1}{\sqrt{15}-\sqrt{14}} \times \frac{\sqrt{15}+\sqrt{14}}{\sqrt{15}+\sqrt{14}}\right) - \left(\frac{1}{\sqrt{14}-\sqrt{13}} \times \frac{\sqrt{14}+\sqrt{13}}{\sqrt{14}+\sqrt{13}}\right) + \left(\frac{1}{\sqrt{13}-\sqrt{12}} \times \frac{\sqrt{13}+\sqrt{12}}{\sqrt{13}+\sqrt{12}}\right)$$

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

$$= \left(\frac{\sqrt{17} + \sqrt{16}}{17-16} \right) - \left(\frac{\sqrt{16} + \sqrt{15}}{16-15} \right) + \left(\frac{\sqrt{15} + \sqrt{14}}{15-14} \right) - \left(\frac{\sqrt{14} + \sqrt{13}}{14-13} \right) + \left(\frac{\sqrt{13} + \sqrt{12}}{13-12} \right)$$

$$= \sqrt{17} + \sqrt{16} - \sqrt{16} - \sqrt{15} + \sqrt{15} + \sqrt{14} - \sqrt{14} - \sqrt{13} + \sqrt{13} + \sqrt{12}$$

$$= \sqrt{17} + \sqrt{12}$$

=> Ans - (C)

Question 15

30 women do half of the total work in 30 days. How many more women will be required to complete the remaining work in 10 days?

- A 45
- B 30
- C 60
- D 80

Answer: C

Explanation:

30 women do half of the total work in 30 days

Let x women are required to complete the remaining half work.

Using, $M_1D_1 = M_2D_2$

$$\Rightarrow 30 \times 30 = x \times 10$$

$$\Rightarrow x = \frac{900}{10} = 90$$

\(\therefore\) Number of more women required = $90 - 30 = 60$

=> Ans - (C)

Question 16

When Amar walk from P to Q and return from Q to P on cycle, it takes him 29 minutes. By walking both ways, it takes him 49 minutes. If he rides cycle both ways then what will be the total time (in minutes)?

- A 9
- B 11
- C 13
- D 15

Answer: A

Explanation:

Let speed of walking = x m/min and speed of cycling = y m/min

Let distance between P and Q = d m

According to ques, when he walks both ways,

$$\Rightarrow \frac{d}{x} + \frac{d}{x} = 49$$

$$\Rightarrow \frac{d}{x} = \frac{49}{2} = 24.5$$

$$\text{Also, } \frac{d}{x} + \frac{d}{y} = 29$$

$$\Rightarrow \frac{d}{y} = 29 - 24.5 = 4.5$$

\(\therefore\) Time taken if he cycles both ways = $\frac{d}{y} + \frac{d}{y}$

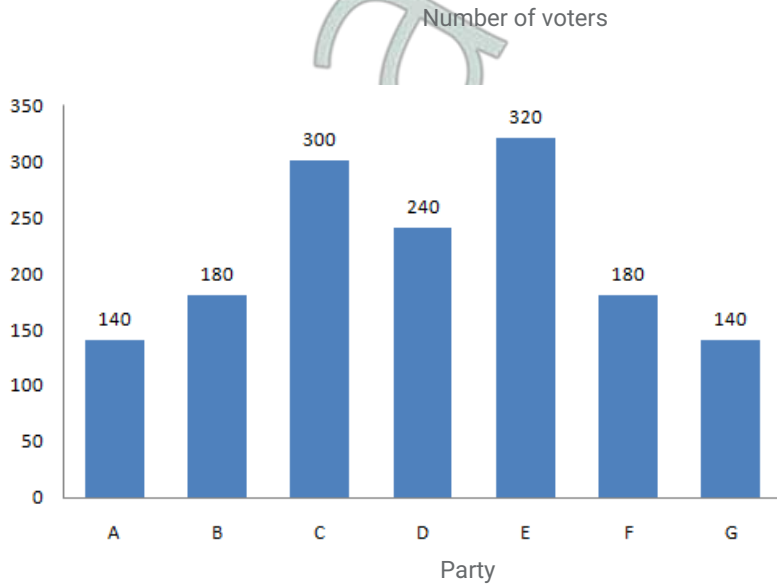
$$= 4.5 + 4.5 = 9 \text{ minutes}$$

=> Ans - (A)

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Instructions

The bar graph shows results of a survey. 1500 people exiting voting booths were asked for which party they voted? Study the diagram and answer the following questions.



Question 17

Which party had the second highest number of voters?

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

Answer: A

Explanation:

Party C had the second highest number of voters = 300

=> Ans - (A)

Question 18

What is the ratio of voters of party D to voters of party G?

- A 7 : 12
- B 15 : 8
- C 12 : 7
- D 8 : 15

Answer: C

Explanation:

Voters of party D = 240

Voters of party G = 140

$$\Rightarrow \text{Required ratio} = \frac{240}{140} = 12 : 7$$

\Rightarrow Ans - (C)

Question 19

Number of voters of party A were lesser than that of party C by _____.

A 35.75%

B 53.33%

C 26.67%

D 45.75%

Answer: B

Explanation:

Voters of party A = 140

Voters of party C = 300

$$\Rightarrow \text{Required \%} = \frac{(300-140)}{300} \times 100$$

$$= \frac{160}{3} = 53.33\%$$

\Rightarrow Ans - (B)

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Question 20

If 30% of voters of party C had voted for party B, then party B's voters would have increased by _____.

A 33.3%

B 90%

C 50%

D 30%

Answer: C

Explanation:

Voters of party C = 300

$$\text{Number of voters who voted for B instead of C} = \frac{30}{100} \times 300 = 90$$

Voters of party B = 180

$$\Rightarrow \% \text{ increase in voters of B} = \frac{90}{180} \times 100 = 50\%$$

\Rightarrow Ans - (C)

Instructions

For the following questions answer them individually

Question 21

If the lengths of the two parallel sides of a trapezium are 7 cm and 9 cm and its area is 80 cm². Find the distance between its parallel sides (in cm).

A 5

- B 10
- C 20
- D 15

Answer: B

Explanation:

Let distance between parallel sides = height of trapezium = h cm

=> Sum of lengths of parallel sides = $7 + 9 = 16$ cm

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

$$\Rightarrow \frac{1}{2} \times 16 \times h = 80$$

$$\Rightarrow h = \frac{80}{8} = 10 \text{ cm}$$

=> Ans - (B)

Question 22

The circumference of a circle is 88 cm. Find its radius (in cm).

- A 28
- B 15
- C 14
- D 30

Answer: C

Explanation:

Let radius of circle = r cm

=> Circumference = $2\pi r = 88$

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

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

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

=> Ans - (C)

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Question 23

Find the volume (in cmc) of a cuboid of length, breadth and height of 10.5 cm, 8 cm and 9 cm respectively.

- A 307
- B 541
- C 355
- D 756

Answer: D

Explanation:

Dimensions of cuboid : $l = 10.5$, $b = 8$ and $h = 9$ cm

=> Volume of cuboid = lbh
 $= 10.5 \times 8 \times 9 = 756 \text{ cm}^3$

=> Ans - (D)

Question 24

What is the value of $\sqrt{3} - \sec 60^\circ$?

A $\sqrt{3} - 2$

B $\frac{1-\sqrt{6}}{\sqrt{2}}$

C $\frac{2\sqrt{3}-\sqrt{6}}{2\sqrt{2}}$

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

Answer: A

Explanation:

Expression = $\sqrt{3} - \sec(60^\circ)$

$= \sqrt{3} - 2$

=> Ans - (A)

Question 25

$\triangle DEF$ is right angled at E. If $\cot D = 8/15$, then what is the value of $\cot F$?

A 15/8

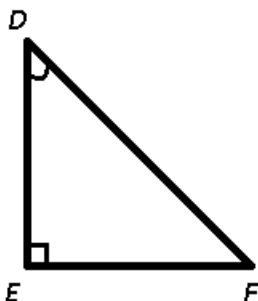
B 15/17

C 8/17

D 17/15

Answer: A

Explanation:



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

Also, $\cot D = \frac{DE}{EF} = \frac{8}{15}$

Let DE = 8 cm and EF = 15 cm

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

$= \frac{15}{8}$

=> 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.

Cone : Figure :: ? : ?

- A Circle : Arc
- B Figure : Triangle
- C Sphere : Circumference
- D Cylinder : Figure

Answer: D

Explanation:

Expression = Cone : Figure :: ? : ?

The first comes under the category of second, i.e. cone and cylinder are 3-D figures.

=> Ans - (D)

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Question 27

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

64 : 10 :: 94 : ?

- A 16
- B 7
- C 4
- D 13

Answer: D

Explanation:

Expression = 64 : 10 :: 94 : ?

The second number in the pair is the sum of digits of first number.

Eg :- $6 + 4 = 10$

Similarly, $9 + 4 = 13$

=> Ans - (D)

Question 28

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

CGL : KOT :: JBR : ?

- A SIY

- B RIZ
- C SJY
- D RJZ

Answer: D

Explanation:

Expression = CGL : KOT :: JBR : ?

The pattern followed is :

C	G	L
(+8)	(+8)	(+8)
K	O	T

Similarly, for JBR : **RJZ**

J	B	R
(+8)	(+8)	(+8)
R	J	Z

=> Ans - (D)

Question 29

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

- A Mars
- B Venus
- C Planet
- D Mercury

Answer: C

Explanation:

Mars, Venus and Mercury are planets of the solar system, hence **planet** 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 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 - 343
- B 2 - 8
- C 5 - 125
- D 4 - 62

Answer: D

Explanation:

The second number is the cube of the first number.

$$(7)^3 = 343$$

$$(2)^3 = 8$$

$$(5)^3 = 125$$

$$(4)^3 = 64 \neq 62$$

=> Ans - (D)

Question 31

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

A DGJ

B TVW

C HKN

D PSV

Answer: B

Explanation:

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

(B) : T (+2 letters) = V (+1 letter) = W

(C) : H (+3 letters) = K (+3 letters) = N

(D) : P (+3 letters) = S (+3 letters) = V

=> Ans - (B)

Question 32

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

1. Regular
2. Rehearse
3. Regard
4. Refugee
5. Refine

A 12453

B 54312

C 51243

D 32154

Answer: B

Explanation:

As per the order of dictionary :

= Refine -> Refugee -> Regard -> Regular -> Rehearse

≡ 54312

=> Ans - (B)

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Question 33

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

8, 16, ?, 64, 128

- A 30
- B 32
- C 28
- D 48

Answer: B

Explanation:

'2' is multiplied to all the numbers.

$$8 \times 2 = 16$$

$$16 \times 2 = 32$$

$$32 \times 2 = 64$$

$$64 \times 2 = 128$$

=> Ans - (B)

Question 34

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

T, Q, N, K, ?

- A H
- B I
- C G
- D F

Answer: A

Explanation:

Series : T, Q, N, K, ?

The pattern followed is :

$$T (-3 \text{ letters}) = Q (-3 \text{ letters}) = N (-3 \text{ letters}) = K (-3 \text{ letters}) = H$$

=> Ans - (A)

Question 35

Present age of Anil and Rajesh are in the ratio of 11 : 6 respectively. 9 years ago, their ages were in the ratio of 7 : 3. If the Pankaj's present age is $\frac{1}{4}$ of the Anil's present age, then what is the Pankaj's present age (in years)?

- A 9
- B 22
- C 13
- D 11

Answer: D

Explanation:

Let present ages of Anil and Rajesh be $11x$ and $6x$ years respectively.

$$\Rightarrow \text{Pankaj's present age} = \frac{11x}{4} \text{ years}$$

According to ques,

$$\Rightarrow \frac{11x-9}{6x-9} = \frac{7}{3}$$

$$\Rightarrow 33x - 27 = 42x - 63$$

$$\Rightarrow 42x - 33x = 63 - 27$$

$$\Rightarrow 9x = 36$$

$$\Rightarrow x = \frac{36}{9} = 4$$

$$\therefore \text{Pankaj's present age} = \frac{11 \times 4}{4} = 11 \text{ years}$$

\Rightarrow Ans - (D)

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Question 36

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

Numismatic

A Must

B Since

C Matic

D Mat

Answer: B

Explanation:

The word NUMISMATIC does not contain any 'E', thus the term **Since** cannot be formed.

\Rightarrow Ans - (B)

Question 37

In a certain code language, "FRONT" is written as "618151420" and "BORNE" is written as "21518145". How is "MORNS" written in that code language?

A 1315181419

B 1314161718

C 81291114

D 141154321

Answer: A

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.

Eg :- FRONT = 6,18,15,14,20 = 618151420

BORNE = 2,15,18,14,5 = 21518145

Similarly, MORNS = 13,15,18,14,19 = **1315181419**

\Rightarrow Ans - (A)

Question 38

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

$$25 \div 2 - 10 + 10 \times 6 = ?$$

- A 1
- B 21
- C 19
- D 20

Answer: A

Explanation:

$$\text{Expression : } 25 \div 2 - 10 + 10 \times 6 = ?$$

$$\equiv 25 \times 2 \div 10 - 10 + 6$$

$$= \frac{50}{10} - 4$$

$$= 5 - 4 = 1$$

=> Ans - (A)

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Question 39

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

$$8 + 2 - 40 \div 5 \times 16 = 44$$

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

Answer: A

Explanation:

$$\text{Expression : } 8 + 2 - 40 \div 5 \times 16 = 44$$

(A) : \div and +

$$\equiv 8 \div 2 - 40 + 5 \times 16 = 44$$

$$\text{L.H.S.} = \left(\frac{8}{2}\right) - 40 + (5 \times 16)$$

$$= 4 - 40 + 80 = 44 = \text{R.H.S.}$$

=> Ans - (A)

Question 40

If $18\Delta 4 = 11$, $16\Delta 8 = 12$ and $6\Delta 12 = 9$, then find the value of $18\Delta 14 = ?$

- A 16
- B 12

C 4

D 20

Answer: A

Explanation:

Given : $18\Delta 4 = 11$, $16\Delta 8 = 12$ and $6\Delta 12 = 9$

If we replace ' Δ ' with '+', and divide the sum by 2, we get the desired result.

Eg :- $\frac{18+4}{2} = 11$

and $\frac{16+8}{2} = 12$ and $\frac{6+12}{2} = 9$

Similarly, $\frac{18+14}{2} = 16$

=> Ans - (A)

Question 41

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

RRRQPQPQ, PRRRPQPQ, PQRRQPQ, PQQRRPQ, PQQPQRRQ, _____.

A RRPQPQPQ

B PRRQPQPQ

C PQQPQRR

D PQRRQPQPQ

Answer: C

Explanation:

Expression : RRRQPQPQ, PRRRPQPQ, PQRRQPQ, PQQRRPQ, PQQPQRRQ, _____.

The pattern followed is that in each term there are 3 combinations of 'PQ' and in each term, there are 2 consecutive R's starting from second position at the left end and shifting one place to the right.

Thus, in the missing term, the last two terms will be RR = **PQPQRR**

=> Ans - (C)

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Question 42

Two airliners start from the same airport. A flies 20 km South. B flies 35 km East, then turns South and flies 45 km, then turns to its right and flies 35 km. Where is B with respect to A now?

A 65 km South

B 25 km North

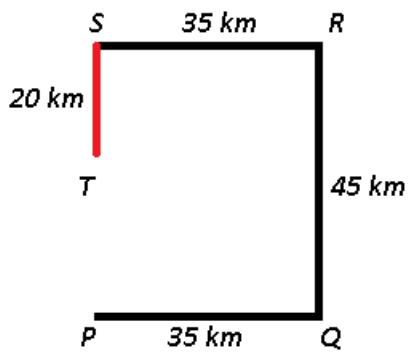
C 25 km South

D 65 km North

Answer: C

Explanation:

Let both start from point S and A (red) flies 20 km South and stop at point T. B (black) flies 35 km East to R, then turns South and flies 45 km to reach Q, then turns to its right and flies 35 km westwards to finally stop at point P.



=> $PT = 45 - 20 = 25 \text{ km}$

∴ B is **25 km south** with respect to A now.

=> 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: Some perfumes are incenses

Statement II: All perfumes are oils

Conclusion I: Some incenses are oils

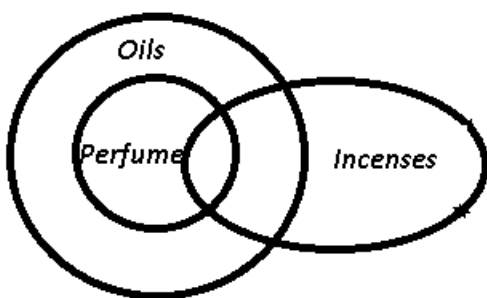
Conclusion II: No oils are incenses

- 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: Some incenses are oils = true

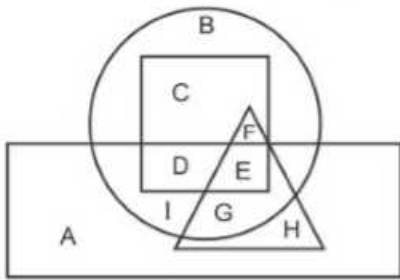
Conclusion II: No oils are incenses = false

Thus, only conclusion I follows.

=> Ans - (A)

Question 44

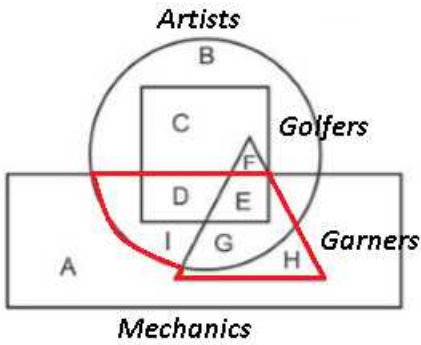
In the following figure, rectangle represents Mechanics, circle represents Artists, triangle represents Garners and square represents Golfers. Which set of letters represents Mechanics who are either Artists or Garners?



- A DEIGH
- B DEIG
- C EGH
- D IGH

Answer: A

Explanation:



Mechanics who are either Artists or Garners are represented by = DEIGH

=> 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. CPK, FSN, IVQ, LYT, ?

- A OBY
- B PCX
- C PCY
- D OBW

Answer: D

Explanation:

Series : CPK, FSN, IVQ, LYT, ?

The pattern followed in each letter of the terms is :

1st letter : C (+3 letters) = F (+3 letters) = I (+3 letters) = L (+3 letters) = O

2nd letter : P (+3 letters) = S (+3 letters) = V (+3 letters) = Y (+3 letters) = B

3rd letter : K (+3 letters) = N (+3 letters) = Q (+3 letters) = T (+3 letters) = W

Thus, missing term = **OBW**

=> Ans - (D)

Question 46

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

831, 842, 853, 864, 875, ?

A 896

B 876

C 886

D 880

Answer: C

Explanation:

'11' is added to all the numbers.

$$831 + 11 = 842$$

$$842 + 11 = 853$$

$$853 + 11 = 864$$

$$864 + 11 = 875$$

$$875 + 11 = \mathbf{886}$$

=> 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 (157, 162, 167)

B (138, 143, 148)

C (222, 227, 232)

D (167, 172, 187)

Answer: D

Explanation:

The numbers are of the form : $(x, x + 5, x + 10)$

But in the last option, we have = $167 + 10 = 177 \neq 187$

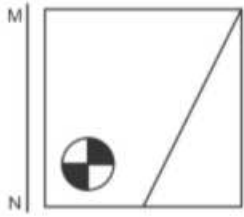
Thus, (167, 172, 187) is the odd one out.

=> 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: D

Explanation:

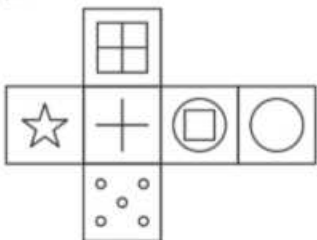
A vertical mirror is placed, so the object on the left will appear right in reverse position and vice-versa.

So the circle which is at the bottom left side of square in the question figure will now appear at bottom right side, hence fourth option is the right image since it is the only one which fits above description.

=> Ans - (D)

Question 49

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

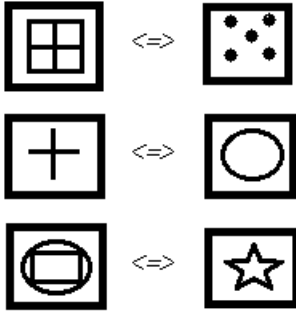




Answer: A

Explanation:

When we fold the given figure, the square with a '+' 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 numbered from 0 to 4 and that of Matrix-II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, for example 'G' can be represented by 20, 43 etc and 'R' can be represented by 97, 78 etc. Similarly, you have to identify the set for the word 'MARX'.

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

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

A 34,67,40,67

B 13,57,33,68

C 31,42,97,99

D 43,95,13,66

Answer: C

Explanation:

(A) : 34,67,40,67 = CVDV

(B) : 13,57,33,68 = BNKQ

(C) : 31,42,97,99 = **MARX**

(D) : 43,95,13,66 = GQBU

=> 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 kind (a)/ treated the (b)/ wounded street dog. (c)/ No error (d)

- A She kind
- B treated the
- C wounded street dog
- D No error

Answer: A

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Question 52

A team of researchers from the University of Florence and Germany's University of Bonn found that plants (a)/ respond to anesthetics the same way that (b)/humans and animals does. (c)/ No error (d)

- A A team of researchers from the University of Florence and Germany's University of Bonn found that plants
- B respond to anesthetics the same way that
- C humans and animals does
- D No error

Answer: C

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

She _____ farewell to her parents.

- A bid
- B call
- C told
- D shout

Answer: A

Question 54

Science helps us in _____ at the answer, but the main decision lies with ourselves.

- A arriving
- B deriving
- C concluding
- D finishing

Answer: A

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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

Obligatory

- A Necessary
- B Optional
- C Voluntary
- D Liberalized

Answer: A

Question 56

Conflagration

- A Fire
- B Conversation
- C Harmony
- D Shooting

Answer: A

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

Nascent

- A Developing
- B Germinal
- C Maturing
- D Withering

Answer: D

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Question 58

Dainty

- A Clumsy
- B Attractive
- C Light
- D Rare

Answer: A

Instructions

For the following questions answer them individually

Question 59

Rearrange the parts of the sentence in correct order.

One of the major

P : crises facing the

Q : country is the

R : looming water shortage

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

Answer: B

Question 60

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

The lecturer praised her.

- A Her was praised by the lecturer.
- B She felt praised by the lecturer.
- C She was praised by the lecturer.
- D She is praised by the lecturer.

Answer: C

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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.

Nidhi said to me, "What are you cooking?"

- A Nidhi enquired about my cooking.
- B Nidhi asked me what I was cooking.
- C Nidhi wondered if I was cooking.
- D Nidhi ask what I was cooking

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 Onorary
- B Honoraery
- C Honorary
- D Honorarey

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.

The news has always _____ predicated on informing the consumer. It speaks of — apart from the day's most _____ upheavals — the best and the worst that _____ has managed to accomplish each day. This includes the medal-winners, the laureates, the record-breakers, the deal-makers _____ the criminals, the villains, the corrupt. The news regales us _____ the highlights, a reel of the most provoking ones that made it into a window of a half-an-hour.

Question 63

The news has always _____ predicated on informing

- A be
- B to be
- C been
- D being

Answer: C

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Question 64

the day's most _____ upheavals

- A significance
- B significantly
- C significant
- D significancy

Answer: C

Question 65

the worst that _____ has managed to accomplish

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

Answer: A

Question 66

the deal-makers _____ the criminals,

- A if
- B but
- C also
- D and

Answer: D

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Question 67

The news regales us _____ the highlights

- A at
- B from
- C with
- D for

Answer: C

Instructions

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

Question 68

At the eleventh hour

- A At the last moment
- B Very late at night.
- C At a very odd time.
- D Luckily have sufficient time to wrap up things.

Answer: A

Question 69

The nitty-gritty

- A The low level dirty job which is left to the lowermost subordinates.
- B Those with grit and determination will not be defeated.
- C Some people are born tough.
- D The most important aspects or practical details of a subject or situation.

Answer: D

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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

Subject someone to hostility and ill-treatment, especially because of their race or political or religious beliefs

- A Persecute
- B Approbation
- C Homage
- D Adoration

Answer: A

Question 71

A remarkable concurrence of events or circumstances without apparent causal connection

- A Jangle
- B Coincidence
- C Clamour
- D Clinker

Answer: B

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

Gilbert de Lafayette's father and grandfather and great-grandfather (have all been) brave and noble men.

- A has all been
- B has all being
- C have all being
- D no improvement

Answer: D

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Question 73

We took a path that would keep us away from (disturb) them as they basked in the sun and ate a slow meal.

- A disturbing
- B disturbed
- C disturbs
- D no improvement

Answer: A

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.

After dinner, my

A-the kitchen and offered to show

B-me what a dishwasher was

C-hostess followed me into

- A BCA
- B BAC
- C ACB
- D CAB

Answer: D

Question 75

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

- A gratifying
- B gretifying
- C gratifyeing
- D gretifyeing

Answer: A

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General Awareness

Instructions

For the following questions answer them individually

Question 76

South Asian University (SAU), a joint SARC University of SAARC Nations, has been established in_____.

- A New Delhi
- B Male
- C Colombo
- D Dhaka

Answer: A

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Question 77

In which of the following Five Year Plan was the growth rate target exceeded?

- A Eighth Five Year Plan
- B Ninth Five Year Plan
- C Tenth Five Year Plan
- D Eleventh Five Year Plan

Answer: B

Question 78

Where did Lord Buddha deliver his first sermon?

- A Lumbini
- B Bodh Gaya
- C Sarnath
- D Kushinagar

Answer: C

Question 79

Who was elected the President of All India Workers and Peasants Party in Calcutta in 1928?

- A M.N. Joglekar
- B Shripad Amrit Dange
- C Sahel Singh Josh
- D Mujaffar ahmed

Answer: C

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Question 80

Line of Capricorn does NOT go through which of the following countries?

- A South Africa
- B Argentina
- C Chile
- D Philippines

Answer: D

Question 81

Which is called the twin city of Kochi?

- A Ernakulam
- B Alwaye
- C Alleppey
- D Kottayam

Answer: A

Question 82

Rukmini Devi Arundale is related to which of the arts?

- A Classical singing
- B Classical dance
- C Folk song
- D No option is correct.

Answer: B

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Question 83

In which of the following countries India celebrated a cultural festival named 'India by the Nile' in 2017?

- A Iran
- B Brazil
- C Egypt
- D UAE

Answer: C

Question 84

Who of the following was the winner of Grammy Awards 2017 'Rap Album of the Year'?

- A Chance the Rapper
- B Crances in the Sky
- C Lake by the Ocean
- D Humble and Kind

Answer: A

Question 85

How many countries are connected to the international border of Myanmar?

- A 4
- B 5
- C 6
- D 7

Answer: B

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Question 86

Match the items with Column (A) with Column (B).

	Column A		Column B
i.	Hydrogen Sulphide	1	Ca(OH) ₂
ii.	Sodium nitrate	2	H ₂ S
iii.	Calcium Oxide	3	NaNO ₃
iv.	Calcium hydroxide	4	CaO

- A I - 2, II - 3, III - 4, IV - 1
- B I - 2, II - 3, III - 1, IV - 4
- C I - 3, II - 2, III - 1, IV - 4
- D I - 2, II - 1, III - 3, IV - 4

Answer: A

Question 87

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

- I. Bases are soapy to touch.
- II. Bases generate OH⁻ ions.
- III. Metal oxides dissolve in water to form Acidic solution.

- A Only I and II
- B Only I and III
- C Only II and III

D All I, II and III

Answer: A

Question 88

Comptroller and Auditor General of India is appointed by _____.

A Prime Minister of India

B Judge of Supreme Court

C President of India

D Chief Election Commissioner of India

Answer: C

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Question 89

In Indian Constitution, _____ contains provisions related to Anti-defection law.

A eighth schedule

B ninth schedule

C tenth schedule

D eleventh schedule

Answer: C

Question 90

Why do the desert plants take up the carbon dioxide for photosynthesis at night?

A To prevent water loss

B To enhance carbon absorption

C To release excess oxygen

D No option is correct.

Answer: A

Question 91

In synapse the information is transmitted in the _____ form.

A biological

B chemical

C electrical

D No option is correct.

Answer: B

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Question 92

'Mentor India' Campaign is an initiative to engage leaders who can guide and mentor students at 'Atal Tinkering Labs' across the country. Who launched 'Mentor India' Campaign?

- A NASSCOM
- B ASSOCHAM
- C NITI Aayog
- D SEBI

Answer: C

Question 93

Which country has launched world's largest human genome research project to document genetic makeup of one lakh people?

- A Japan
- B South Africa
- C China
- D India

Answer: C

Question 94

In August 2017, New Development Bank (NDB) approved \$ 1.4 billion loan for development projects in India, Russia, and China. Where is NDB headquarter?

- A Shanghai
- B Beijing
- C Moscow
- D Washington

Answer: A

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Question 95

On 19 September 2017, Law Ministry approved Fugitive Economic Offenders Bill, 2017. The proposed bill will be applicable in cases where the value of offences is over _____.

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

Answer: A

Question 96

What is the resistance (in Ω) of an electrical component if a current of 0.5 A passes through it on application of 20 V of potential difference across it?

- A 10
- B 80
- C 20
- D 40

Answer: D

Question 97

In the equation of motion $2as = v^2 - u^2$, s represents _____.

- A speed
- B displacement
- C velocity
- D acceleration

Answer: B

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Question 98

The instrument that measures the _____ is called an anemometer.

- A wind speed
- B pressure
- C humidity
- D rainfall

Answer: A

Question 99

Which of the statements given below are correct?

- A) Elina Svitolina won the Tennis 2017 Italian Open Women's Singles.
- B) Lewis Hamilton won the Formula One 2017 Italian Grand Prix.
- C) In 2017, James Harden played for the NBA team Milwaukee Bucks.

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

Answer: C

Question 100

In Microsoft Word, to alter the page set up, page set up is clicked under _____.

- A Formatting tool bar
- B File menu
- C Standard tool bar
- D Menu bar

Answer: B

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