



SSC CHSL 10 March 2018 Evening Shift

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Instructions

For the following questions answer them individually

Question 1

If the value of $\sqrt{5} = 2.236$ then calculate the value of $\sqrt{405} - \frac{1}{2}\sqrt{80} - \sqrt{125}$

- A 2.236
- B 4.472
- C 1.118
- D 8.994

Answer: B

Explanation:

Given : $\sqrt{5} = 2.236$

To find : $\sqrt{405} - \frac{1}{2}\sqrt{80} - \sqrt{125}$

$$= \sqrt{81 \times 5} - \frac{1}{2}\sqrt{16 \times 5} - \sqrt{25 \times 5}$$

$$= 9\sqrt{5} - \frac{4}{2}\sqrt{5} - 5\sqrt{5}$$

$$= 2\sqrt{5} = 2 \times 2.236 = 4.472$$

=> Ans - (B)

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Question 2

1595 is the sum of the square of three consecutive odd numbers. Find the numbers.

- A 19, 21, 23
- B 17, 19, 21
- C 21, 23, 25
- D 23, 25, 27

Answer: C

Explanation:

Let the three consecutive odd numbers be $(x - 2)$, (x) , $(x + 2)$

According to ques,

$$\Rightarrow (x - 2)^2 + (x)^2 + (x + 2)^2 = 1595$$

$$\Rightarrow (x^2 - 4x + 4) + (x^2) + (x^2 + 4x + 4) = 1595$$

$$\Rightarrow 3x^2 + 8 = 1595$$

$$\Rightarrow 3x^2 = 1595 - 8 = 1587$$

$$\Rightarrow x^2 = \frac{1587}{3} = 529$$

$$\Rightarrow x = \sqrt{529} = 23$$

∴ Consecutive odd numbers are = 21, 23, 25

=> Ans - (C)

Question 3

Determine the value of 'x' in $x = \frac{1}{1+\sqrt{2}} + \frac{1}{\sqrt{2}+\sqrt{3}} + \frac{1}{\sqrt{3}+2}$

A -1

B 0

C 1

D 2

Answer: C

Explanation:

Expression: $x = \frac{1}{1+\sqrt{2}} + \frac{1}{\sqrt{2}+\sqrt{3}} + \frac{1}{\sqrt{3}+2}$

Rationalizing the denominator, we get:

$$= \left(\frac{1}{1+\sqrt{2}} \times \frac{\sqrt{2}-1}{\sqrt{2}-1} \right) + \left(\frac{1}{\sqrt{2}+\sqrt{3}} \times \frac{\sqrt{3}-\sqrt{2}}{\sqrt{3}-\sqrt{2}} \right) + \left(\frac{1}{\sqrt{3}+2} \times \frac{2-\sqrt{3}}{2-\sqrt{3}} \right)$$

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

$$= \frac{\sqrt{2}-1}{(2-1)} + \frac{\sqrt{3}-\sqrt{2}}{3-2} + \frac{2-\sqrt{3}}{4-3}$$

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

$$= 2 - 1 = 1$$

=> Ans - (C)

Question 4

What is the value of $z^2 + \frac{1}{z^2}$ when $z = 5 + 2\sqrt{6}$

A 49

B 50

C 98

D 100

Answer: C

Explanation:

Given: $z = 5 + 2\sqrt{6}$ -----(i)

$$\Rightarrow \frac{1}{z} = \frac{1}{5+2\sqrt{6}}$$

$$\Rightarrow \frac{1}{z} = \frac{1}{5+2\sqrt{6}} \times \frac{5-2\sqrt{6}}{5-2\sqrt{6}}$$

$$\Rightarrow \frac{1}{z} = \frac{5-2\sqrt{6}}{25-24} = 5 - 2\sqrt{6} \text{ -----(ii)}$$

To find: $z^2 + \frac{1}{z^2}$

Using, $x^2 + y^2 = (x+y)^2 - 2xy$

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

Substituting values from equations (i) and (ii), we get:

$$= [(5 + 2\sqrt{6}) + (5 - 2\sqrt{6})]^2 - 2\left(z\right)\left(\frac{1}{z}\right)$$

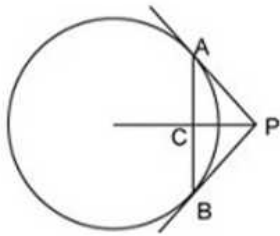
$$= (10)^2 - 2 = 100 - 2 = 98$$

=> Ans - (C)

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Question 5

The figure shown below consists of the tangents at the extremities of any chord. Choose the correct option given below.



- A $\angle PAC = \angle PBC$
- B $\angle APC = \angle BPC$
- C $\triangle PAC \cong \triangle PBC$
- D All options are correct

Answer: D

Explanation:

In the given figure, PA and PB are tangents from the same point, $\Rightarrow PA = PB$

Thus, in $\triangle ABP$, $\Rightarrow \angle PAC = \angle PBC$

Also, $\angle APC = \angle BPC$ (perpendicular from centre to the chord bisects the chord and the angle between tangents)

$\Rightarrow \triangle PAC \cong \triangle PBC$ (By ASA criteria)

Thus, all options are correct.

=> Ans - (D)

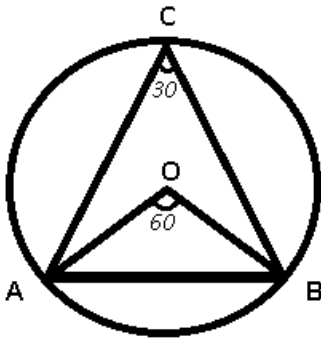
Question 6

Calculate the angle subtended by the chord at the point on the major arc if the radius and the chord of the circle are equal in length.

- A 30°
- B 120°
- C 200°
- D 300°

Answer: A

Explanation:



Given : Radius and the chord of the circle are equal in length.

To find : $\angle ACB = ?$

Solution : It is given that the radius and the chord of the circle are equal in length.

$\Rightarrow OA = OB = AB$

$\Rightarrow AOB$ is an equilateral triangle, $\Rightarrow \angle AOB = 60^\circ$

Now, the angle subtended by an arc at the centre is double the angle subtended by it at any point on the circle.

$\Rightarrow \angle ACB = \frac{60}{2} = 30^\circ$

\Rightarrow Ans - (A)

Question 7

If $U = 450$ and $V = 585$, then V is how much percentage more than U ?

- A 130
- B 23.07
- C 25
- D 30

Answer: D

Explanation:

$U = 450$ and $V = 585$

\Rightarrow Required % = $\frac{(585-450)}{450} \times 100$

= $\frac{135}{450} = 30\%$

\Rightarrow Ans - (D)

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Question 8

The ratio of two numbers is 3 : 7. If their product is 1344, then what is the sum of both the numbers?

- A 80
- B 60
- C 30
- D 168

Answer: A

Explanation:

Let the numbers be $3x$ and $7x$

$$\text{Product} = (3x) \times (7x) = 1344$$

$$\Rightarrow x^2 = \frac{1344}{21} = 64$$

$$\Rightarrow x = \sqrt{64} = 8$$

$$\therefore \text{Sum of numbers} = 3x + 7x = 10x$$

$$= 10 \times 8 = 80$$

\Rightarrow Ans - (A)

Question 9

P and Q invested some money in a business in the ratio of 4 : 7 respectively. After 6 months P withdraws his capital. If they receive profits in the ratio of 4 : 21, then for how many months did Q invest in the business?

A 12

B 15

C 18

D 21

Answer: C

Explanation:

Let P invested Rs. 4 for 6 months and Q invested Rs. 7 for x months

$$\Rightarrow \text{Ratio of profits of P:Q} = (4 \times 6) : (7 \times x)$$

According to ques,

$$\Rightarrow \frac{24}{7x} = \frac{4}{21}$$

$$\Rightarrow 7x \times 4 = 24 \times 21$$

$$\Rightarrow x = \frac{24 \times 21}{7 \times 4}$$

$$\Rightarrow x = 6 \times 3 = 18 \text{ months}$$

\Rightarrow Ans - (C)

Question 10

A boy buys 5 pencils at Rs 3 each, 3 erasers at Rs 2 each and 3 sharpeners at Rs 5 each. What is the average expenditure (in Rs) per article?

A 3.27

B 3.5

C 4

D 5

Answer: A

Explanation:

$$\text{Price of 5 pencils} = 5 \times 3 = \text{Rs. } 15$$

$$\text{Price of 3 erasers} = 3 \times 2 = \text{Rs. } 6$$

$$\text{Price of 3 sharpeners} = 3 \times 5 = \text{Rs. } 15$$

$$\Rightarrow \text{Average expenditure} = \frac{15+6+15}{5+3+3}$$

$$= \frac{36}{11} = \text{Rs. } 3.27$$

\Rightarrow Ans - (A)

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Question 11

An equal sum is invested in two different schemes. One scheme gives simple interest and the other gives compound interest (annual compounding). The total interest obtained after 2 years from both the schemes together is Rs 2090. If both the schemes have 18% per annum interest rate, then what is the first year interest (in Rs) of simple interest scheme?

A 1000

B 500

C 545

D 1045

Answer: B

Explanation:

Let sum invested in both schemes = Rs. $100x$

Time period = 2 years and rate of interest in both schemes = 18%

$$\text{Total interest from both schemes} = \left(\frac{P \times R \times T}{100}\right) + [P(1 + \frac{R}{100})^T - P]$$

$$\Rightarrow \left(\frac{100x \times 18 \times 2}{100}\right) + [100x(1 + \frac{18}{100})^2 - 100x] = 2090$$

$$\Rightarrow (36x) + [100x(\frac{118}{100})^2 - 100x] = 2090$$

$$\Rightarrow 36x + 139.24x - 100x = 2090$$

$$\Rightarrow 75.24x = 2090$$

$$\Rightarrow x = \frac{2090}{75.24} = 27.78$$

$$\therefore \text{Simple interest in 1st year} = \frac{(100 \times 27.78) \times 18 \times 1}{100}$$

$$= 27.78 \times 18 = 500.04 \approx \text{Rs. } 500$$

\Rightarrow Ans - (B)

Question 12

Two pens are bought at the rate of Rs 20 each. Shopkeeper sells one at the profit of 25% and other at the loss of 25%. What will be the total profit or loss in the whole transaction?

A No profit/loss

B Profit of Rs 1

C Loss of Rs 1

D Loss of Rs 2

Answer: A

Explanation:

Cost price of each pen = Rs. 20

Profit % on 1st pen = 25%

$$\Rightarrow \text{Selling price of 1st pen} = 20 + \left(\frac{25}{100} \times 20\right) = \text{Rs. } 25$$

$$\text{Similarly, selling price of 2nd pen after 25\% loss} = 20 - \left(\frac{25}{100} \times 20\right) = \text{Rs. } 15$$

$$\text{Thus, total cost price} = \text{Rs. } (20 + 20) = \text{Rs. } 40$$

$$\text{and selling price} = \text{Rs. } (25 + 15) = \text{Rs. } 40$$

Thus, there is no profit or loss.

\Rightarrow Ans - (A)

Question 13

A merchant marks the price of his articles 30% above the cost price. He gives some discount on it and earns a profit of 13.75%. What is the discount percentage?

A 12.5

B 13.75

C 16.25

D 10.25

Answer: A

Explanation:

Let cost price = Rs. $100x$

Profit % = 13.75%

$$\Rightarrow \text{Selling price} = 100x + \left(\frac{13.75}{100} \times 100x\right) = \text{Rs. } 113.75x$$

$$\text{Also, marked price} = 100x + \left(\frac{30}{100} \times 100x\right) = \text{Rs. } 130x$$

$$\therefore \text{Discount \%} = \frac{(130x - 113.75x)}{130x} \times 100$$

$$= \frac{162.5}{13} = 12.5\%$$

\Rightarrow Ans - (A)

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Question 14

What is the value of $\sqrt[3]{1331} + \sqrt{729} - \sqrt[3]{512}$?

A 15

B 20

C 30

D 23

Answer: C

Explanation:

$$\text{Expression : } \sqrt[3]{1331} + \sqrt{729} - \sqrt[3]{512}$$

$$= \sqrt[3]{11 \times 11 \times 11} + 27 - \sqrt[3]{8 \times 8 \times 8}$$

$$= 11 + 27 - 8 = 30$$

\Rightarrow Ans - (C)

Question 15

Manish is four times as efficient as Puneet. Manish takes 90 days less than Puneet to complete a book. If both of them work together, then in how many days the book will be completed?

- A 28
- B 25
- C 24
- D 30

Answer: C

Explanation:

Ratio of times taken by Manish and Puneet = 1 : 4

The time difference is (4 - 1) 3 days while Puneet take 4 days and Manish takes 1 day.

If difference of time is 3 days, Puneet takes 4 days.

If difference of time is 90 days, Puneet takes = $\frac{4}{3} \times 90 = 120$ days

So, Manish takes 30 days

Manish's 1 day's work = $\frac{1}{30}$

Puneet's 1 day's work = $\frac{1}{120}$

(Manish + Puneet)'s 1 day's work together = $\frac{1}{30} + \frac{1}{120} = \frac{5}{120} = \frac{1}{24}$

∴ Manish and Puneet together can do the work in = **24 days**

=> Ans - (C)

Question 16

A man starts walking from a place X and reaches the place Y in 12 hours. He travels 3/7th of the total distance at the speed of 3 km/hr and the remaining distance at the speed of 4 km/hr. What is the distance (in km) between X and Y?

- A 28
- B 36
- C 40
- D 42

Answer: D

Explanation:

Let total distance between X and Y = $7d$ km

=> Distance travelled at the speed of 3 km/hr = $\frac{3}{7} \times 7d = 3d$ km

Thus, distance travelled at the speed of 4 km/hr = $7d - 3d = 4d$ km

Total time taken = 12 hours

Using, time = distance/speed

$$\Rightarrow \frac{3d}{3} + \frac{4d}{4} = 12$$

$$\Rightarrow d + d = 2d = 12$$

$$\Rightarrow d = \frac{12}{2} = 6$$

∴ Total distance between X and Y = $7 \times 6 = 42$ km

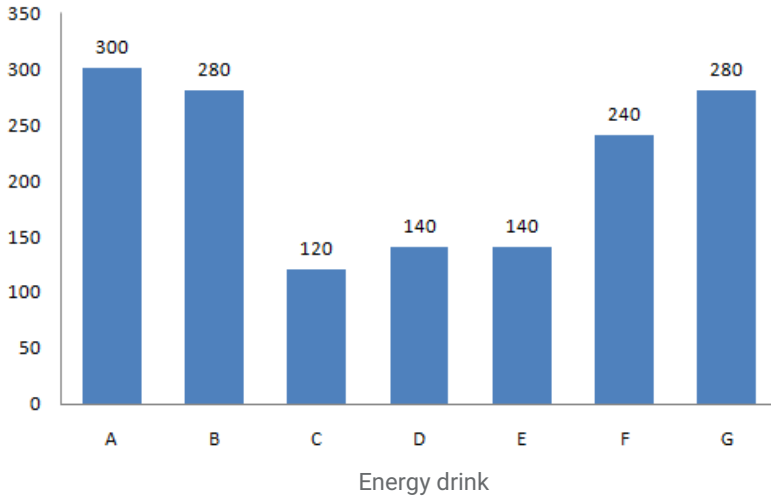
=> Ans - (D)

SSC CHSL Important Questions and Answers (Download PDF)

Instructions

The bar graph shows results of a survey carried out within a health club. The members of the club were asked which energy drink they consumed? Study the diagram and answer the following questions.

Number of consumers



Question 17

Which energy drink was consumed the least?

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

Answer: B

Explanation:

Clearly, energy drink C was consumed the least = by 120 consumers

=> Ans - (B)

Question 18

What is the ratio of consumers of energy drink C to consumers of energy drink G?

- A 7 : 3
- B 3 : 7
- C 5 : 9
- D 9 : 5

Answer: B

Explanation:

Consumers of energy drink C = 120

Consumers of energy drink G = 280

=> Required ratio = $\frac{120}{280} = 3 : 7$

=> Ans - (B)

Question 19

Consumers of drink B are greater than that of drink E by _____.

- A 50%
- B 100%
- C 200%
- D 150%

Answer: B

Explanation:

Consumers of energy drink B = 280

Consumers of energy drink E = 140

$$\Rightarrow \text{Required \%} = \frac{(280-140)}{140} \times 100 = 100\%$$

=> Ans - (B)

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Question 20

If 40% of consumers of drink C start consuming drink F then the consumers of drink F would increase by _____.

- A 20%
- B 40%
- C 48%
- D 24%

Answer: A

Explanation:

Consumers of energy drink C = 120

$$\text{Consumers that left C and started F} = \frac{40}{100} \times 120 = 48$$

Consumers of energy drink F = 240

$$\Rightarrow \% \text{ increase in consumers} = \frac{48}{240} \times 100$$

$$= 2.4 = 20\%$$

=> Ans - (A)

Instructions

For the following questions answer them individually

Question 21

The area of an equilateral triangle is $25\sqrt{3} \text{ cm}^2$. Find its side (in cm).

- A 10
- B 5
- C 20

D 30

Answer: A

Explanation:

Let side of equilateral triangle = s cm

$$\Rightarrow \text{Area} = \frac{\sqrt{3}}{4} s^2 = 25\sqrt{3}$$

$$\Rightarrow \frac{s^2}{4} = 25$$

$$\Rightarrow s^2 = 25 \times 4 = 100$$

$$\Rightarrow s = \sqrt{100} = 10 \text{ cm}$$

\Rightarrow Ans - (A)

Question 22

Calculate the area (in cm^2) of a circle of radius 17.5 cm.

A 1925

B 962.5

C 809.5

D 1619

Answer: B

Explanation:

Radius of circle = $r = 17.5$ cm

$$\Rightarrow \text{Area} = \pi r^2$$

$$= \frac{22}{7} \times 17.5 \times 17.5$$

$$= 22 \times 2.5 \times 17.5 = 962.5 \text{ cm}^2$$

\Rightarrow Ans - (B)

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Question 23

Find the total surface area (in cm^2) of a right circular cone of diameter 21 cm and slant height 11 cm.

A 467.5

B 384

C 724

D 709.5

Answer: D

Explanation:

Radius of cone, $r = \frac{21}{2} = 10.5$ cm and slant height, $l = 11$ cm

Total surface area of cone = $\pi r(l + r)$

$$= \frac{22}{7} \times 10.5 \times (10.5 + 11)$$

$$= 33 \times 21.5 = 709.5 \text{ cm}^2$$

=> Ans - (D)

Question 24

What is the value of $(\operatorname{cosec}45^\circ + \sqrt{3}/2)$?

- A 5/6
- B $(4+\sqrt{3})/2\sqrt{3}$
- C $(2\sqrt{2}+\sqrt{3})/2$
- D $3\sqrt{3}/2$

Answer: C

Explanation:

Expression : $(\operatorname{cosec}45^\circ + \frac{\sqrt{3}}{2})$

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

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

=> Ans - (C)

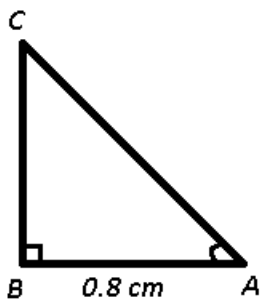
Question 25

In $\triangle ABC$ measure of angle B is 90° . If $\tan A = 15/8$, and $AB = 0.8\text{cm}$, then what is the length (in cm) of side AC?

- A 1.7
- B 1.5
- C 2
- D 2.5

Answer: A

Explanation:



Given : $AB = 0.8\text{ cm}$ and $\tan A = 15/8$

To find : $AC = ?$

Solution : In right $\triangle ABC$,

$$\Rightarrow \tan(A) = \frac{BC}{AB}$$

$$\Rightarrow \frac{15}{8} = \frac{BC}{0.8}$$

$$\Rightarrow BC = \frac{15}{8} \times 0.8 = 1.5\text{ cm}$$

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

$$\Rightarrow (AC)^2 = (0.8)^2 + (1.5)^2$$

$$\Rightarrow (AC)^2 = 0.64 + 2.25 = 2.89$$

$$\Rightarrow AC = \sqrt{2.89} = 1.7 \text{ cm}$$

\Rightarrow 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. Square : Four :: ? : ?

- A Triangle : Five
- B Rectangle : Four
- C Octagon : Seven
- D Circle : Five

Answer: B

Explanation:

Expression = Square : Four :: ? : ?

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

\Rightarrow Ans - (B)

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Question 27

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

18 : 11 :: ? : ?

- A 33 : 29
- B 36 : 29
- C 41 : 33
- D 49 : 41

Answer: B

Explanation:

Expression = 18 : 11 :: ? : ?

The difference between the numbers = $18 - 11 = 7$

Similarly, only the difference between $36 - 29 = 7$

\Rightarrow Ans - (B)

Question 28

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

MPR : LOQ :: KST : ?

- A JPQ
- B LRS
- C JPT
- D JRS



Answer: D

Explanation:

Expression = MPR : LOQ :: KST : ?

The pattern followed is :

M	P	R
(-1)	(-1)	(-1)
L	O	Q

Similarly, for KST : **JRS**

K	S	T
(-1)	(-1)	(-1)
J	R	S

=> Ans - (D)

Question 29

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

- A Lungs
- B Nose
- C Heart
- D Kidney

Answer: B

Explanation:

Lungs, Heart and kidney are internal organs of a body, hence **nose** 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 13 - 26
- B 15 - 30
- C 17 - 34
- D 19 - 31

Answer: D



Explanation:

The second number is equal to two times the first number.

$$13 \times 2 = 26$$

$$15 \times 2 = 30$$

$$17 \times 2 = 34$$

$$19 \times 2 = 38 \neq 31$$

=> Ans - (D)

Question 31

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

A TQNK

B URNM

C VSPM

D LIFC

Answer: B

Explanation:

(A) : T (-3 letters) = Q (-3 letters) = N (-3 letters) = K

(B) : U (-3 letters) = R (-4 letters) = N (-1 letter) = M

(C) : V (-3 letters) = S (-3 letters) = P (-3 letters) = M

(D) : L (-3 letters) = I (-3 letters) = F (-3 letters) = C

=> Ans - (B)

Question 32

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

1. Attempt

2. Alert

3. Attach

4. Assistant

5. Assume

A 13452

B 24531

C 42531

D 53412

Answer: B

Explanation:

As per the order of dictionary :

= Alert -> Assistant -> Assume -> Attach -> Attempt

≡ 24531

=> Ans - (B)

Question 33

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

13, 17, 26, 42, 67, ?

- A 99
- B 90
- C 103
- D 94

Answer: C

Explanation:

Squares of consecutive integers are added.

$$13 + (2)^2 = 17$$

$$17 + (3)^2 = 26$$

$$26 + (4)^2 = 42$$

$$42 + (5)^2 = 67$$

$$67 + (6)^2 = 103$$

=> 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.

FN, KL, PJ, ?, ZF

- A SH
- B RG
- C VG
- D UH

Answer: D

Explanation:

Series : FN, KL, PJ, ?, ZF

The pattern followed in each letter of the terms is :

1st letter : F (+5 letters) = K (+5 letters) = P (+5 letters) = U (+5 letters) = Z

2nd letter : N (-2 letters) = L (-2 letters) = J (-2 letters) = H (-2 letters) = F

Thus, missing term = **UH**

=> Ans - (D)

Question 35

In a row, Mohini is at 23rd position from left and 37th position from right. How many girls are there in the row?

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

Answer: C

Explanation:

Mohini's position from left end = 23rd

Mohini's position from right end = 37th

=> Total number of girls = $(23 + 37) - 1 = 59$

=> 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.

Grandfather

A Rand

B And

C Grade

D Faith

Answer: D

Explanation:

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

=> Ans - (D)

Question 37

In a certain code language, "MUTE" is written as "60" and "TYRE" is written as "69". How is "HYPE" written in that code language?

A 55

B 60

C 54

D 52

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. Then the numbers are added and '1' is added to get the final output.

Eg :- MUTE = $(13 + 21 + 20 + 5) + 1 = 59 + 1 = 60$

TYRE = $(20 + 25 + 18 + 5) + 1 = 68 + 1 = 69$

Similarly, HYPE = $(8 + 25 + 16 + 5) + 1 = 54 + 1 = 55$

=> Ans - (A)

Question 38

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

AMJ, DPM, GSP, ?, MYV

A JUT

B KVT

C JVS

D KUS

Answer: C

Explanation:

Series : AMJ, DPM, GSP, ?, MYV

The pattern followed in each letter of the terms is :

1st letter : A (+3 letters) = D (+3 letters) = G (+3 letters) = J (+3 letters) = M

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

3rd letter : J (+3 letters) = M (+3 letters) = P (+3 letters) = S (+3 letters) = V

Thus, missing term = **JVS**

=> Ans - (C)

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Question 39

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

119, 121, 124, 128, ?, 139

A 130

B 133

C 131

D 132

Answer: B

Explanation:

Consecutive integers are added.

$$119 + 2 = 121$$

$$121 + 3 = 124$$

$$124 + 4 = 128$$

$$128 + 5 = \mathbf{133}$$

$$133 + 6 = 139$$

=> 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 (113, 109, 105)

B (142, 137, 133)

C (197, 193, 189)

D (162, 158, 154)

Answer: B

Explanation:

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

But in the second option, we have $= 142 - 4 = 138 \neq 137$ and $142 - 8 = 134 \neq 133$

Thus, (142, 137, 133) is the odd one out.

=> Ans - (B)

Question 41

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

$$23 \times 20 \div 35 - 2 + 10 = ?$$

A 19

B 10

C 16

D 20

Answer: B

Explanation:

Expression : $23 \times 20 \div 35 - 2 + 10 = ?$

$$\equiv 23 - 20 + 35 \times 2 \div 10$$

$$= 3 + \frac{70}{10}$$

$$= 3 + 7 = 10$$

=> Ans - (B)

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Question 42

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

$$17 - 20 \div 25 \times 6 + 10 = 12$$

A ÷ and +

B ÷ and x

C + and -

D x and -

Answer: A

Explanation:

Expression : $17 - 20 \div 25 \times 6 + 10 = 12$

(A) : ÷ and +

$$\equiv 17 - 20 + 25 \times 6 \div 10 = 12$$

$$\text{L.H.S.} = 17 - 20 + \left(\frac{25 \times 6}{10} \right)$$

$$= -3 + 15 = 12 = \text{R.H.S.}$$

=> Ans - (A)

Question 43

If $9*4 = 26$, $4*4 = 16$ and $3*6 = 18$, then find the value of $5*2 = ?$

- A 13
- B 14
- C 17
- D 26

Answer: B

Explanation:

Given : $9*4 = 26$, $4*4 = 16$ and $3*6 = 18$

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

Eg :- $(9 + 4) \times 2 = 26$

and $(4 + 4) \times 2 = 16$ and $(3 + 6) \times 2 = 18$

Similarly, $(5 + 2) \times 2 = 14$

=> Ans - (B)

Question 44

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

RQPQPQPQ, PSPQPQPQ, PQRQPQPQ, PQPSPQPQ, PQPQRQPQ, _____

- A PQPQPQPQ
- B RQPQPQPQ
- C PQPQPSPQ
- D PSPQPQPQ

Answer: C

Explanation:

Expression : RQPQPQPQ, PSPQPQPQ, PQRQPQPQ, PQPSPQPQ, PQPQRQPQ, _____

The above series is a combination of 4 'PQ', but in each alternative term starting from the left, P is replaced by R and in the even number of terms, Q is replaced by S in increasing order.

Thus, in the missing term (6th term), 3rd Q is replaced by S = **PQPQPSPQ**

=> Ans - (C)

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Question 45

Two pickup trucks X and Y start from the same place. Truck X travels East 15 km and then turns right and travels 8 km. In the meanwhile truck Y travels 7 km West, then 3 km North, then 2 km West, then it turns left and travels 11 km. Where is truck Y with respect to truck X?

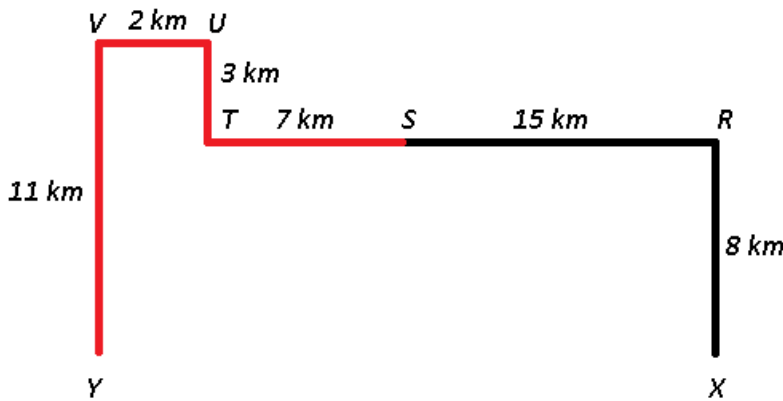
- A 6 km West
- B 24 km East
- C 6 km East

D 24 km West

Answer: D

Explanation:

Let the two pickup trucks X and Y start from the same place S. Truck X (black) travels East 15 km to reach R and then turns right and travels 8 km southwards to reach point X. In the meanwhile truck Y (red) travels 7 km West, then 3 km North to reach U, then 2 km West, finally it turns left and travels 11 km southwards to reach point Y.



$\Rightarrow XY = 15 + 7 + 2 = 24 \text{ km}$

\therefore Truck Y is **24 km west** with respect to truck X.

\Rightarrow Ans - (D)

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 papers are magazines

Statement II: Some tabloids are papers

Conclusion I: Some magazines are tabloids

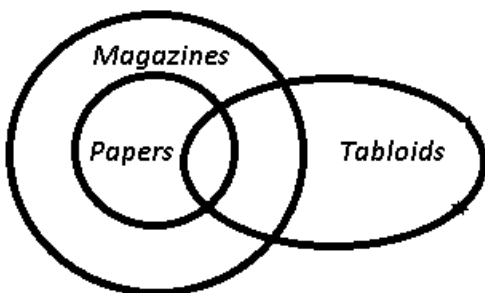
Conclusion II: Some tabloids are magazines

- 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: C

Explanation:

The venn diagram for above statements is :



Conclusion I: Some magazines are tabloids = true

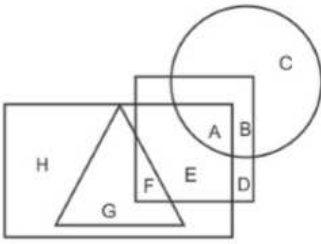
Conclusion II: Some tabloids are magazines = true

Thus, both conclusions I and II follow.

\Rightarrow Ans - (C)

Question 47

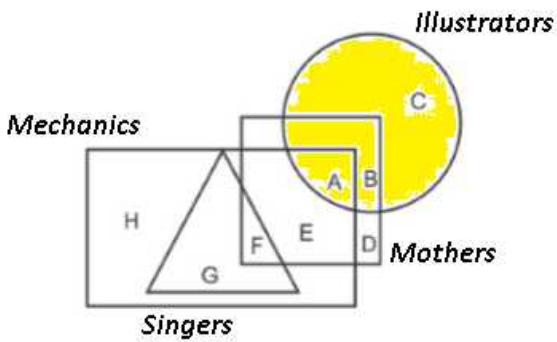
In the following figure, rectangle represents Mechanics, circle represents Illustrators, triangle represents Singers and square represents Mothers. Which set of letters represents Illustrators who are not Singers?



- A FG
- B ED
- C BC
- D ABC

Answer: D

Explanation:



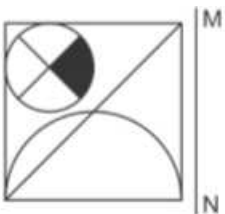
Illustrators who are not Singers = A + B + C

=> 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?



- A
- B



Answer: D

Explanation:

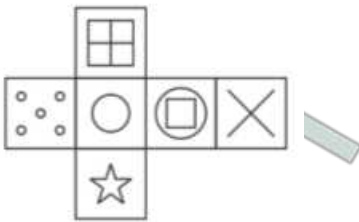
A vertical mirror is placed, so the object on the left will appear right in reverse position and vice-versa.

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

=> Ans - (D)

Question 49

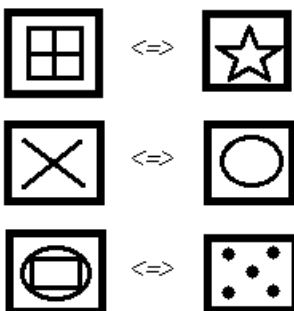
Which of the following cube in the answer figure cannot be made based on the unfolded cube in the question figure?



Answer: A

Explanation:

When we fold the given figure, the square with a circle sign will become the base of the cube and the side with only 'X' 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 '1' can be represented by 23, 41 etc and 'R' can be represented by 65, 57 etc. Similarly, you have to identify the set for the word 'DOPE'.

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

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

- A 41,89,10,87
- B 32,96,13,69
- C 32,58,77,30
- D 34,96,32,57

Answer: C

Explanation:

- (A) : 41,89,10,87 = JNDV
- (B) : 32,96,13,69 = DSKT
- (C) : 32,58,77,30 = **DOPE**
- (D) : 34,96,32,57 = CSDR

=> 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

Although he (a)/ studied regularly, (b)/ his marks didn't improving. (c)/ No error (d)

- A Although he
- B studied regularly
- C his marks didn't improving
- D No error

Answer: C

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Question 52

Buddhism originated in Ancient India around 6th and 4th (a)/ centuries BCE, from where it spread through most (b)/ of Asia, and then it declines in India during the Middle Ages.
(c)/ No error (d)

- A Buddhism originated in Ancient India around 6th and 4th
- B centuries BCE, from where it spread through most
- C of Asia, and then it declines in India during the Middle Ages
- 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

Is the lipstick natural or _____?

- A artificial
- B daydream
- C unreal
- D vulnerable

Answer: A

Question 54

In the court of god we will be judged by our action and _____.

- A steeds
- B bleed
- C gleeds
- D deeds

Answer: D

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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

Laconic

- A Brief
- B Verbose
- C Lengthy

D Unabridged

Answer: A

Question 56

Propitious

A Luxurious

B Pitiful

C Sad

D Hopeful

Answer: D

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

Mellow

A Ripe

B Mature

C Rich

D Hard

Answer: D

Question 58

Exhume

A Dig

B Reveal

C Hide

D Resurrect

Answer: C

Instructions

For the following questions answer them individually

Question 59

Rearrange the parts of the sentence in correct order.

For ages,

P : the Indian psyche has been

Q : geared towards devoting one's life

R : to the welfare of all

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

Answer: A

Question 60

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

My cousin has written this essay.

- A This essay has been written by my cousin.
- B This essay was written by my cousin.
- C This essay has been wrote by my cousin.
- D My cousin wrote this essay.

Answer: A

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Question 61

A sentence has been given in Direct/Indirect Speech. Out of the four given alternatives, select the one which best expresses the same sentence in Indirect/Direct Speech.

"Don't you know the way to home?" asked the lady.

- A The lady asked why he didn't know the way to home.
- B The lady asked whether he didn't knew the way to home.
- C The lady asked about the way to home.
- D The lady asked why he doesn't know the way to home.

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 Foreign
- B Forien
- C Foriegn
- D Foreing

Answer: A

Instructions

In the following passage, some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives. It is a proverbial _____, that every one makes his own destiny; and _____ is usually interpreted, that every one, by his wise _____ unwise conduct, prepares good or evil for himself: but we may also understand it, that whatever it be that he receives _____ the hand of Providence, he may so accommodate _____ to it, that he will find his lot good for him, however much may seem to others to be wanting.

Question 63

It is a proverbial _____, that every one makes

- A say
- B said
- C saying
- D says

Answer: C

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Question 64

own destiny; and _____ is usually interpreted,

- A these
- B this
- C those
- D here

Answer: B

Question 65

by his wise _____ unwise conduct,

- A or
- B but also
- C but
- D nor

Answer: A

Question 66

that he receives _____ the hand of Providence,

- A form
- B from
- C of

D for

Answer: B

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Question 67

so accommodate _____ to it, that he

- A he
- B his
- C himself
- D him

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

Come true

- A Pray hard for your wishes.
- B To happen in the way you had hoped.
- C Day dream about success.
- D Be finally proved that you were right.

Answer: B

Question 69

Great minds think alike

- A When an evil plan is hatched criminals agree.
- B Said to those people who don't like each other to make them agree.
- C Said when two people have the same opinion or make the same choice.
- D Intelligent people will think of plans to which everybody will say yes.

Answer: C

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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

An urgent need or demand

- A Vindication
- B Satiety
- C Redress
- D Exigency

Answer: D

Question 71

Believe in and follow the practices of

- A Atheist
- B Pagan
- C Agnostic
- D Adhere

Answer: D

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

We have lost the magic of living, and (is mired) in numbers.

- A was mired
- B to mire
- C are mired
- D no improvement

Answer: C

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Question 73

There is something in a train journey that (was fascinated) a lot of people and I am one of them.

- A has fascinated
- B have fascinated
- C has fascinate
- 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.

- On the speech front, we
A-can all do something individually
B-idiom of communication
C-if we change our

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

Answer: C

Question 75

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

- A monopoly
- B illiterate
- C monnopoly
- D monnopolly

Answer: A

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General Awareness

Instructions

For the following questions answer them individually

Question 76

"Residex Index" is associated with which of these?

- A Share Prices
- B Mutual Fund Prices
- C Price Inflation Index
- D Housing Prices

Answer: D

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Question 77

For internal financing of Five Year Plans, the Government depends on

_____.

- A taxation and public borrowing
- B taxation, public borrowing and deficit financing
- C Only taxation
- D public borrowing and deficit financing

Answer: D

Question 78

In which language were the Buddhist literary works generally written?

- A Prakrit
- B Pali
- C Nepalese
- D Sanskrit

Answer: B

Question 79

Which of the following rebellion / agitation did NOT happen in the area of Bengal?

- A Sannyasi Rebellion
- B Chuar Rebellion
- C Pagal Panthi rebellion
- D Baghera Rebellion

Answer: D

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Question 80

Which of the following cities is closest to the Equator?

- A Colombo
- B Jakarta
- C Manila
- D Singapore

Answer: D

Question 81

Which of the following states has NOT met the boundary with Mizoram?

- A Nagaland

- B Myanmar
- C Assam
- D Tripura

Answer: A

Question 82

Who among the following is NOT a famous dancer of Bharatanatyam?

- A Rukmini Devi Arundale
- B T. Balasaraswati
- C Yamini Krishnamurthy
- D Jhaveri sisters

Answer: D

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Question 83

At which place the first BIMSTEC Disaster Management Exercise 2017 (BIMSTEC DMEx 2017), held in October 2017?

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

Answer: C

Question 84

Who is the recipient of first Life time Achievement award instituted by Badminton Association of India?

- A G.S.S.V.Prasad
- B Nandu Patekar
- C P. Gopichand
- D Prakash Padukone

Answer: D

Question 85

Most of population in Sri Lanka follows _____.

- A Hinduism
- B Islam

C Christianity

D Buddhism

Answer: D

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Question 86

What is the relative molecular mass of water?

A 8 u

B 9 u

C 16 u

D 18 u

Answer: D

Question 87

What is the pH value of human blood?

A 8.3

B 6.8

C 7.4

D 6

Answer: C

Question 88

In India, who is known as the highest law officer?

A President of India

B Attorney General of India

C Comptroller and Auditor General of India

D Advocate General of the State

Answer: B

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Question 89

According to the Indian Constitution, the Union _____ body is called the Parliament.

A Judicial

B Executive

C Legislative

D both Judicial and legislative

Answer: C

Question 90

Which is NOT an example of organism that breaks down the food material outside the body and then absorb it?

A Bread moulds

B Yeast

C Mushrooms

D Snake

Answer: D

Question 91

Each trait in the child can be influenced by _____ DNA.

A only paternal

B only maternal

C both paternal and maternal

D neither paternal nor maternal

Answer: C

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Question 92

Who launched Pradhan Mantri Vaya Vandana Yojana (PMVVY) in July 2017?

A Rajnath Singh

B Arun Jaitley

C Suresh Prabhu

D Nirmala Sitharaman

Answer: B

Question 93

Which organisation has installed India's largest floating solar photovoltaic plant in Kerala?

A Nuclear Power Corporation of India

B Power grid Corporation of India

C National Hydroelectric Power Corporation

D National Thermal Power Corporation

Answer: D

Question 94

'ICAR' launched National Agricultural Higher Education Project (NAHEP) in association with World Bank. Where is ICAR (Indian Council of Agricultural Research) located?

- A Mumbai
- B Patna
- C Bengaluru
- D New Delhi

Answer: D

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Question 95

On 19 September 2017, Law Ministry approved Fugitive Economic Offenders Bill, 2017. The Bill entrusts the responsibility to try cases of Fugitive Economic Offenders under _____.

- A Prevention of Money Laundering Act, 2002 (PMLA)
- B Prevention of Money Laundering Act, 2005
- C Prevention of Money Laundering Act, 2010
- D Prevention of Money Laundering Act, 1995

Answer: A

Question 96

Due to an acceleration of 4 m/s^2 the velocity of a body increases from 10 m/s to 30 m/s in a certain period. Find the displacement (in m) of the body in that period.

- A 200
- B 250
- C 100
- D 125

Answer: C

Question 97

The area under a Velocity-Time graph represents _____.

- A distance
- B acceleration

- C force
- D momentum

Answer: A

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Question 98

A _____ is known by different names in different parts of the world. It is called a 'hurricane' in North America.

- A funnel
- B whirlpool
- C cyclone
- D twister

Answer: C

Question 99

Which of the statements given below are correct?

- A) Alexander Norén won the Golf 2017 Masters Tournament.
- B) In 2017, Daniel Ricciardo raced in Formula One for Mercedes.
- C) In 2017 Pro Kabaddi League, Suraj Desai played for Jaipur Pink Panthers.

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

Answer: D

Question 100

In _____ layout headings can be displayed hiding the text under them in Microsoft Word.

- A Web
- B Outline
- C Reading
- D Print

Answer: B

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