



SSC CHSL 5 March 2018 Morning Shift

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Instructions

For the following questions answer them individually

Question 1

What is the least number that can be multiplied to 69120 to make it a perfect cube?

- A 10
- B 50
- C 25
- D 5

Answer: C

Explanation:

Prime factorization of $69120 = 2^9 \times 3^3 \times 5$

For the number to be a perfect cube, all the exponents must be multiples of 3, thus the above number must be multiplied with $5^2 = 25$.

=> Ans - (C)

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Question 2

Mr. Ankit is on tour to Siachin and he has Rs. 360 for his expenditure. If he exceeds his tour by 4 days, he must trim down his daily expenditure by Rs.3. For how many days is Mr. Ankit is on tour?

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

Answer: A

Explanation:

Let Mr. Ankit is on tour for x days

=> Original daily expense = $Rs. \frac{360}{x}$

According to ques,

$$\Rightarrow (x + 4) \left(\frac{360}{x} - 3 \right) = 360$$

$$\Rightarrow 360 - 3x + \frac{1440}{x} - 12 = 360$$

$$\Rightarrow 3x - \frac{1440}{x} + 12 = 0$$

$$\Rightarrow 3x^2 + 12x - 1440 = 0$$

$$\Rightarrow x^2 + 4x - 480 = 0$$

$$\Rightarrow x^2 + 24x - 20x - 480 = 0$$

$$\Rightarrow x(x + 24) - 20(x + 24) = 0$$

$$\Rightarrow (x + 24)(x - 20) = 0$$

$$\Rightarrow x = -24, 20$$

$\therefore x$ cannot be negative, $\Rightarrow x = 20$ days

\Rightarrow Ans - (A)

Question 3

Determine the value of $\left(\frac{1}{r} + \frac{1}{s}\right)$ when $r^3 + s^3 = 0$ and $r + s = 6$

A 0

B 0.5

C 1

D 6

Answer: B

Explanation:

Given : $r^3 + s^3 = 0$ and $r + s = 6$ -----(i)

$$\therefore x^3 + y^3 = (x + y)(x^2 + y^2 - xy)$$

$$\Rightarrow (r + s)(r^2 + s^2 - rs) = 0$$

$$\Rightarrow 6(r^2 + s^2 - rs) = 0$$

$$\Rightarrow r^2 + s^2 - rs = 0$$

$$\Rightarrow r^2 + s^2 = rs$$
 -----(ii)

Also, squaring equation (i),

$$\Rightarrow (r + s)^2 = (6)^2$$

$$\Rightarrow r^2 + s^2 + 2rs = 36$$

Substituting value from equation (ii), $\Rightarrow rs + 2rs = 3rs = 36$

$$\Rightarrow rs = \frac{36}{3} = 12$$
 -----(iii)

$$\therefore \left(\frac{1}{r} + \frac{1}{s}\right) = \frac{r+s}{rs}$$

Dividing equation (i) by (iii),

$$= \frac{6}{12} = 0.5$$

\Rightarrow Ans - (B)

Question 4

What is the y - intercept of the linear equation $59x + 14y - 112 = 0$?

A 8

B 14

C 28

D 59

Answer: A

Explanation:

$$\text{Equation} = 59x + 14y - 112 = 0$$

$$\Rightarrow 14y = -59x + 112$$

$$\Rightarrow y = \frac{-59x + 112}{14}$$

$$\Rightarrow y = \frac{-59}{14}x + 8$$

Comparing above equation with $y = mx + c$, where c is the y-intercept.

\Rightarrow y-intercept = 8

\Rightarrow Ans - (A)

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Question 5

The circumferences of two circles are touching externally. The distance between their centres is 12 cm. The radius of one circle is 7 cm. Find the diameter (in cm) of the other circle.

A 12

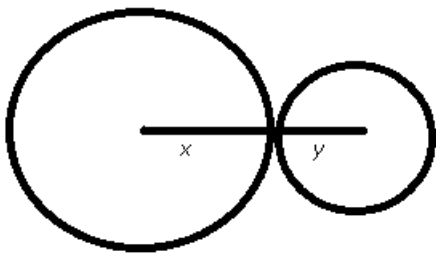
B 10

C 8

D 5

Answer: B

Explanation:



Let $x = 7$ be the radius of first circle and y be the radius of second circle.

$$\Rightarrow x + y = 12$$

$$\Rightarrow 7 + y = 12$$

$$\Rightarrow y = 12 - 7 = 5$$

\therefore Diameter of second circle = $2 \times 5 = 10$ cm

\Rightarrow Ans - (B)

Question 6

The length of the radius of the circumference of a triangle having sides 9 cm, 12 cm and 15 cm is

A 6 cm

B 7.5 cm

C 4.5 cm

D 6.5 cm

Answer: B

Explanation:

Length of sides of triangle = 9, 12 and 15 cm

Clearly, it is right angled triangle having $(15)^2 = (9)^2 + (12)^2$, where length of hypotenuse = 15 cm

Also, the circumcentre of a right angled triangle lies on its hypotenuse, thus circumradius = $\frac{1}{2} \times$ (hypotenuse)

$$= \frac{1}{2} \times 15 = 7.5 \text{ cm}$$

=> Ans - (B)

Question 7

If $X = 600$ and $Y = 800$, then X is how much percent less than Y ?

- A 33.33
- B 25
- C 75
- D 35

Answer: B

Explanation:

$$X = 600 \text{ and } Y = 800$$

$$\Rightarrow \text{Required \%} = \frac{(800-600)}{800} \times 100$$

$$= \frac{200}{8} = 25\%$$

=> Ans - (B)

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Question 8

The ratio of three numbers is $2 : 3 : 5$. If the sum of the three numbers is 275, then what is the largest among the three numbers?

- A 142
- B 82.5
- C 137.5
- D 152

Answer: C

Explanation:

Let three numbers be $2x$, $3x$ and $5x$ respectively.

$$\text{Sum} = 2x + 3x + 5x = 275$$

$$\Rightarrow x = \frac{275}{10} = 27.5$$

$$\therefore \text{Largest number} = 5 \times 27.5 = 137.5$$

=> Ans - (C)

Question 9

S, T and U started a business and their capitals are in the ratio of $3 : 4 : 6$. At the end they receive the profit in the ratio of $1 : 2 : 3$. What will be the respective ratio of time period for which they contributed their capitals?

- A $3 : 2 : 2$
- B $2 : 3 : 3$

C 2 : 2 : 3

D 4 : 5 : 3

Answer: B

Explanation:

Let the respective time period for which S, T and U contributed their capitals = $x : y : z$

Ratio of capitals = 3 : 4 : 6

=> Ratio of profit = $3x : 4y : 6z = 1 : 2 : 3$

$$\Rightarrow \frac{3x}{4y} = \frac{1}{2}$$

$$\Rightarrow \frac{x}{y} = \frac{2}{3}$$

Similarly, $\frac{4y}{6z} = \frac{2}{3}$

$$\Rightarrow y = z$$

$$\therefore x : y : z = 2 : 3 : 3$$

=> Ans - (B)

Question 10

What is the average of first 7 multiples of 7?

A 7

B 14

C 21

D 28

Answer: D

Explanation:

First 7 multiples of 7 = 7,14,21,28,35,42,49

$$\Rightarrow \text{Sum} = 7(1 + 2 + 3 + 4 + 5 + 6 + 7) = 7 \times 28$$

$$\Rightarrow \text{Average} = \frac{7 \times 28}{7} = 28$$

=> Ans - (D)

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Question 11

A sum of Rs 8000 is divided into two parts. The simple interest on first part at the rate of 21% per annum is equal to the simple interest on second part at the rate of 35% per annum. What is the interest (in Rs) of each part?

A 1050

B 840

C 1400

D 1220

Answer: A

Explanation:

Let sum invested for 21% = Rs. $100x$ and sum invested for 35% = Rs. $(8000 - 100x)$

Time period = 1 year

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

According to ques,

$$\Rightarrow \frac{100x \times 21 \times 1}{100} = \frac{(8000 - 100x) \times 35 \times 1}{100}$$

$$\Rightarrow 21x = (80 - x) \times 35$$

$$\Rightarrow 21x = 2800 - 35x$$

$$\Rightarrow 35x + 21x = 56x = 2800$$

$$\Rightarrow x = \frac{2800}{56} = 50$$

$$\therefore \text{Interest for each part} = \frac{100 \times 50 \times 21 \times 1}{100}$$

= Rs. 1050

\Rightarrow Ans - (A)

Question 12

Selling price of a glass is Rs 1965 and loss percentage is 25%. If selling price is Rs 3013, then what will be the profit percentage?

- A 13
- B 10.4
- C 15
- D 20

Answer: C

Explanation:

Selling price of glass = Rs. 1965

Loss % = 25%

$$\Rightarrow \text{Cost price} = \frac{1965}{(100-25)} \times 100$$

$$= 1965 \times \frac{4}{3} = \text{Rs. } 2620$$

If selling price = Rs. 3013

$$\therefore \text{Profit \%} = \frac{(3013-2620)}{2620} \times 100$$

$$= \frac{393}{262} = 15\%$$

\Rightarrow Ans - (C)

Question 13

Ramesh marks his article at Rs 6000 and after allowing a discount of 20%, he still earns 60% profit. What is the cost price (in Rs) of the article?

- A 3600
- B 4800
- C 3000
- D 4200

Answer: C

Explanation:

Let the cost price = Rs. $100x$

$$\Rightarrow \text{Selling price} = 100x + \frac{60}{100} \times 100x = \text{Rs. } 160x \text{ -----(i)}$$

Also, Marked price = Rs. 6000 and discount % = 20%

$$\Rightarrow \text{Selling price} = 6000 - \frac{20}{100} \times 6000 = 6000 - 1200 = \text{Rs. } 4800 \text{ -----(ii)}$$

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

$$\Rightarrow 160x = 4800$$

$$\Rightarrow x = \frac{4800}{160} = 30$$

$$\therefore \text{Cost price} = 100 \times 30 = \text{Rs. } 3000$$

\Rightarrow Ans - (C)

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Question 14

What is the value of $\sqrt{729} + \sqrt{729} + \sqrt{7.29}$?

A 40.5

B 45.6

C 33.5

D 56.7

Answer: D

Explanation:

$$\text{Expression : } \sqrt{729} + \sqrt{729} + \sqrt{7.29}$$

We know that $(27)^2 = 729$

$$= 27 + 27 + 2.7 = 56.7$$

= Ans - (D)

Question 15

Rohan and Mohit together can build a wall in 8 days. Mohit and Vikas build the same wall in 10 days and Vikas and Rohan can build the same wall in 12 days. In how many days can all the three complete the same wall while working together?

A $240/37$

B $120/37$

C $150/37$

D $180/37$

Answer: A

Explanation:

Let total work to be done = L.C.M.(8,10,12) = 120 units

Let efficiency of Rohan, Mohit and Vikas be x, y, z respectively.

$$\text{Rohan and Mohit together can build the wall in 8 days, } \Rightarrow x + y = \frac{120}{8} = 15 \text{ units/day -----(i)}$$

$$\text{Similarly, } y + z = \frac{120}{10} = 12 \text{ units/day -----(ii)}$$

$$\text{and } z + x = \frac{120}{12} = 10 \text{ units/day} \text{ -----(iii)}$$

Adding equations (i), (ii) and (iii), we get :

$$\Rightarrow 2(x + y + z) = 15 + 12 + 10 = 37$$

$$\Rightarrow x + y + z = \frac{37}{2}$$

$$\therefore \text{Time taken by all of them} = \frac{120}{\frac{37}{2}} = \frac{240}{37} \text{ days}$$

\Rightarrow Ans - (A)

Question 16

A boy starts from his house and walks at a speed of 5 km/hr and reaches his school 3 minutes late. Next day he starts at the same time and increases his speed by 4 km/hr and reaches 3 minutes early. What is the distance (in km) between the school and his house?

- A 1
- B 1.25
- C 1.125
- D 1.5

Answer: C

Explanation:

Let distance between school and house = d km and ideal time to reach school = t hours

When he walks at a speed of 5 km/hr, he reaches school 3 minutes late, \Rightarrow using distance = speed \times time

$$\Rightarrow d = 5 \times \left(t + \frac{3}{60}\right) \text{ -----(i)}$$

$$\text{Similarly, } d = 9 \times \left(t - \frac{3}{60}\right) \text{ -----(ii)}$$

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

$$\Rightarrow 5\left(t + \frac{3}{60}\right) = 9\left(t - \frac{3}{60}\right)$$

$$\Rightarrow 5t + \frac{1}{4} = 9t - \frac{9}{20}$$

$$\Rightarrow 9t - 5t = \frac{1}{4} + \frac{9}{20}$$

$$\Rightarrow 4t = \frac{(5+9)}{20} = \frac{14}{20}$$

$$\Rightarrow t = \frac{7}{10} \times \frac{1}{4} = \frac{7}{40}$$

$$\text{Substituting it in equation (i), } \Rightarrow d = 5\left(\frac{7}{40} + \frac{3}{60}\right)$$

$$= 5\left(\frac{21+6}{120}\right) = \frac{27}{24} = 1.125 \text{ km}$$

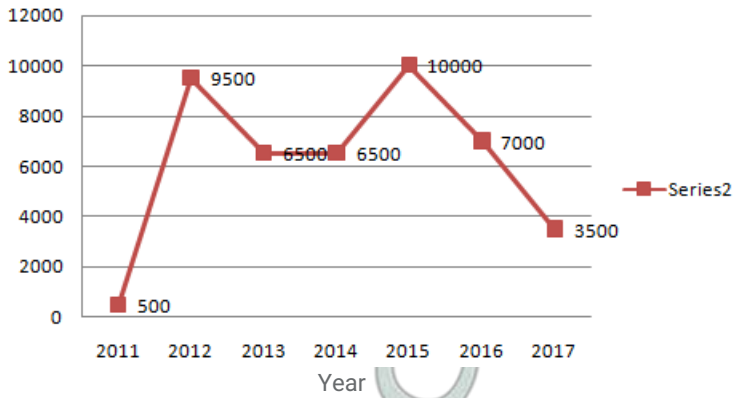
\Rightarrow Ans - (C)

SSC CHSL Important Questions and Answers (Download PDF)

Instructions

The line graph shows the number of students of a certain university who passed in the given year in their final exams. Study the diagram and answer the following questions.

Pass Student



Question 17

In which year were number of students who passed were more than those who passed in the previous year?

- A 2016
- B 2015
- C 2014
- D 2013

Answer: B

Explanation:

In 2012 and 2015, number of students who passed were more than those who passed in the previous year.

=> Ans - (B)

Question 18

What was the difference in the number of students who passed between the years 2013 and 2016?

- A 1000
- B 500
- C 1500
- D 2000

Answer: B

Explanation:

Number of students who passed in 2016 = 7000

Number of students who passed in 2013 = 6500

=> Required difference = $7000 - 6500 = 500$

=> Ans - (B)

Question 19

Number of students who passed in 2016 were greater than that in 2017 by _____.

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

D 200%

Answer: B

Explanation:

Number of students who passed in 2016 = 7000

Number of students who passed in 2017 = 3500

$$\Rightarrow \text{Required \%} = \frac{(7000-3500)}{3500} \times 100$$

$$= \frac{3500}{35} = 100\%$$

\Rightarrow Ans - (B)

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Question 20

If students who pass are given a certificate, what is the number of certificates awarded in the last three years?

A 19500

B 20000

C 20500

D 19000

Answer: C

Explanation:

Number of certificates awarded in the last three years = Number of students who passed in 2015, 2016 and 2017

$$= 10000 + 7000 + 3500$$

$$= 20500$$

\Rightarrow Ans - (C)

Instructions

For the following questions answer them individually

Question 21

The area and the length of one of the diagonals of a rhombus is 84 cm² and 7 cm respectively. Find the length of its other diagonal (in cm).

A 12

B 24

C 48

D 36

Answer: B

Explanation:

Let length of one diagonal = d cm and length of other diagonal = 7 cm

$$\Rightarrow \text{Area of rhombus} = \frac{1}{2} \times d_1 d_2$$

$$\Rightarrow \frac{1}{2} \times 7 \times d = 84$$

$$\Rightarrow d = \frac{84 \times 2}{7}$$

$\Rightarrow d = 24 \text{ cm}$

\Rightarrow Ans - (B)

Question 22

Find the perimeter (in cm) of a semicircle of radius 28 cm.

- A 288
- B 144
- C 121
- D 242

Answer: B

Explanation:

Radius of semi circle = $r = 28 \text{ cm}$

\Rightarrow Perimeter of semi circle = $\pi r + 2r$

$= \left(\frac{22}{7} \times 28\right) + (2 \times 28)$

$= 88 + 56 = 144 \text{ cm}$

\Rightarrow Ans - (B)

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Question 23

Find the curved surface area in cm^2 of a hemisphere of diameter 28 cm.

- A 1152
- B 1024
- C 956
- D 1232

Answer: D

Explanation:

Radius of hemisphere, $r = \frac{28}{2} = 14 \text{ cm}$

Curved surface area = $2\pi r^2$

$= 2 \times \frac{22}{7} \times (14)^2$

$= 44 \times 2 \times 14 = 1232 \text{ cm}^2$

\Rightarrow Ans - (D)

Question 24

What is the value of $(\sin 60^\circ + \frac{2}{\sqrt{3}})$?

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

D $2 + \sqrt{3}$

Answer: B

Explanation:

Expression : $\sin(60^\circ) + \frac{2}{\sqrt{3}}$

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

$= \frac{3+4}{2\sqrt{3}}$

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

=> Ans - (B)

Question 25

ΔXYZ is right angled at Y. If $\cos X = 3/5$, then what is the value of $\operatorname{cosec} Z$?

A $3/4$

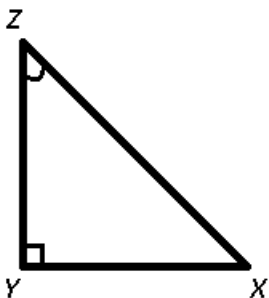
B $5/3$

C $4/5$

D $4/3$

Answer: B

Explanation:



Given : $\cos X = \frac{3}{5}$

Also, $\cos X = \frac{XY}{XZ} = \frac{3}{5}$

Let $XY = 3$ cm and $XZ = 5$ cm

To find : $\operatorname{cosec} Z = \frac{XZ}{XY}$

$= \frac{5}{3}$

=> Ans - (B)

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Reasoning

Instructions

For the following questions answer them individually

Question 26

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

Pascal : Pressure :: ? : ?

- A Hectare : Volume
- B Speed : Temperature
- C Joule : Work
- D Time : Seconds

Answer: C

Explanation:

Expression = Pascal : Pressure :: ? : ?

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

=> Ans - (C)

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Question 27

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

563 : 635 :: 894 : ?

- A 849
- B 489
- C 498
- D 948

Answer: D

Explanation:

Expression = 563 : 635 :: 894 : ?

The pattern followed is that the digits are arranged in such way that the first digit comes at the end, and the rest of the digits are written in the respective order.

Similarly, 894 : **948**

=> Ans - (D)

Question 28

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

MOK : KLG :: ? : ?

- A FIM : DFI
- B TMA : UNB
- C KCN : JBM
- D FSA : IVD

Answer: A

Explanation:

Expression = MOK : KLG

The pattern followed is:

M	O	K
(-2)	(-3)	(-4)
K	L	G

Similarly, **FIM : DFI**

F	I	M
(-2)	(-3)	(-4)
D	F	I

=> Ans - (A)

Question 29

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

- A Square - Four
- B Pentagon - Five
- C Rectangle - Three
- D Triangle - Three

Answer: C

Explanation:

Number of sides in the respective polygons are given. A triangle has 3, square has 4 and a pentagon has 5 sides, and a rectangle also has 4 sides.

Thus, *Rectangle - Three* is the odd one.

=> Ans - (C)

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Question 30

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

- A 7 - 49
- B 2 - 4
- C 5 - 25
- D 3 - 39

Answer: D

Explanation:

The second number is the square of the first number.

$$(7)^2 = 49$$

$$(2)^2 = 4$$

$$(5)^2 = 25$$

$$(3)^2 = 9 \neq 39$$

=> Ans - (D)

Question 31

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

- A RTV
- B HJL
- C KMP
- D BDF

Answer: C

Explanation:

(A) : R (+2 letters) = S (+2 letters) = V

(B) : H (+2 letters) = J (+2 letters) = L

(C) : K (+2 letters) = M (+3 letters) = P

(D) : B (+2 letters) = D (+2 letters) = F

=> Ans - (C)

Question 32

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

1. Pinnacle
2. Pigment
3. Pierce
4. Phony
5. Pick

- A 15423
- B 45321
- C 54213
- D 32154

Answer: B

Explanation:

As per the order of dictionary :

= Phony -> Pick -> Pierce -> Pigment -> Pinnacle

≡ 45321

=> Ans - (B)

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Question 33

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

23, 28, 34, 41, 49, ?

- A 59
- B 57
- C 58

D 55

Answer: C

Explanation:

Consecutive integers are added.

$$23 + 5 = 28$$

$$28 + 6 = 34$$

$$34 + 7 = 41$$

$$41 + 8 = 49$$

$$49 + 9 = 58$$

=> Ans - (C)

Question 34

GJT, IMR, KPP, MSN, ?

A PUL

B OVL

C OUK

D PVM

Answer: B

Explanation:

Series : GJT, IMR, KPP, MSN, ?

The pattern followed in each letter of the terms is :

1st letter : G (+2 letters) = I (+2 letters) = K (+2 letters) = M (+2 letters) = **O**

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

3rd letter : T (-2 letters) = R (-2 letters) = P (-2 letters) = N (-2 letters) = **L**

Thus, missing term : **OVL**

=> Ans - (B)

Question 35

In a row of buses, Punjab is at 19th position from the right end. Raftaar is 23 places to the left from Punjab and is at the exact centre of row. How many buses are between Raftaar bus and bus standing at the left end?

A 44

B 42

C 40

D 43

Answer: C

Explanation:

Position of Punjab's bus from right end = 19th

=> Position of Raftaar's bus from right end = $19 + 23 = 42$ nd

Since, Raftaar's bus is also at the centre, => Number of buses between Raftaar bus and bus standing at the left end (eliminating these two buses)

$$= 42 - 2 = 40$$

=> 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.
Government

- A Got
- B Over
- C Need
- D Norm

Answer: C

Explanation:

The word GOVERNMENT does not contain any 'D', thus the term **Need** cannot be formed.

=> Ans - (C)

Question 37

In a certain code language, "FRIED" is written as "EQHDC". How is "RUSTY" written in that code language?

- A PAXYZ
- B QTRSX
- C PARSX
- D NQVSZ

Answer: B

Explanation:

"FRIED" is written as "EQHDC"

The pattern followed is :

F	R	I	E	D
(-1)	(-1)	(-1)	(-1)	(-1)
E	Q	H	D	C

Similarly, for RUSTY :

R	U	S	T	Y
(-1)	(-1)	(-1)	(-1)	(-1)
Q	T	R	S	X

=> Ans - (B)

Question 38

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

$$19 \div 2 - 35 + 10 \times 6 = ?$$

- A 20

B 14

C 32

D 27

Answer: A

Explanation:

Expression : $19 \div 2 - 35 + 10 \times 6 = ?$

$$\equiv 19 + 2 \times 35 \div 10 - 6$$

$$= 19 + \frac{70}{10} - 6$$

$$= 13 + 7 = 20$$

=> Ans - (A)

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Question 39

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

$$15 \times 18 - 6 \div 20 + 4 = 29$$

A + and x

B \div and -

C + and \div

D - and +

Answer: B

Explanation:

Expression : $15 \times 18 - 6 \div 20 + 4 = 29$

(A) : + and x

$$\equiv 15 + 18 - 6 \div 20 \times 4 = 29$$

$$\text{L.H.S.} = 33 - \frac{24}{20} = 31.8 \neq \text{R.H.S.}$$

(B) : \div and -

$$\equiv 15 \times 18 \div 6 - 20 + 4 = 29$$

$$\text{L.H.S.} = 15 \times 3 - 16 = 29 = \text{R.H.S.}$$

=> Ans - (B)

Question 40

If $40@8 = -5$, $30@3 = -10$ and $20@5 = -4$, then find the value of $60@3 = ?$

A 45

B -20

C -5

D -36

Answer: B

Explanation:

Given : $40@8 = -5$, $30@3 = -10$ and $20@5 = -4$

If we replace '@' with ' \div ' and append a 'negative' sign, then L.H.S. = R.H.S.

Eg :- $-\frac{40}{8} = -5$

and $-\frac{30}{3} = -10$

and $-\frac{20}{5} = -4$

Similarly, $-\frac{60}{3} = -20$

=> Ans - (B)

Question 41

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

abABABAB, ABabABAB, ABABabAB, ABABABab, abABABAB, _____.

A ABABAbAB

B abABABAB

C ABabABAA

D ABabABAB

Answer: D

Explanation:

Expression : abABABAB, ABabABAB, ABABabAB, ABABABab, abABABAB, _____.

The pattern followed is that in each term there are 4 combinations of 'AB' and in each term, the first two terms in increasing order (in pairs) are small alphabets.

Thus, in the missing term, the third and fourth term will be small = **ABabABAB**

=> Ans - (D)

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Question 42

Two village women are returning home starting from the same point. The first woman walks 1 km South, then turns to her right and walks 6 km to reach her house. In the meanwhile the second woman walks 5 km West, then she turns North and walks 4 km, then she turns to her left and walks 1 km to reach her house. Where is the second woman's house with respect to the first woman's house?

A 5 km North

B 3 km North

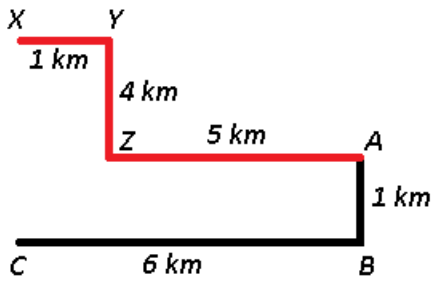
C 5 km South

D 3 km South

Answer: A

Explanation:

Let the two village women start from the same point A. The first woman (by black) walks 1 km South, then turns to her right and walks 6 km westwards to reach her house C. Also, the second woman (in red) walks 5 km West to Z, then she turns North and walks 4 km to reach point Y, then she turns to her left and walks 1 km to reach her house X.



∴ The second woman's house is **5 km north** with respect to the first woman's house.

=> Ans - (A)

Question 43

In the question two statements are given, followed by two conclusions, I and II.

You have to consider the statements to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.

Statement I: No books are notebooks

Statement II: All diaries are books

Conclusion I: No notebooks are diaries

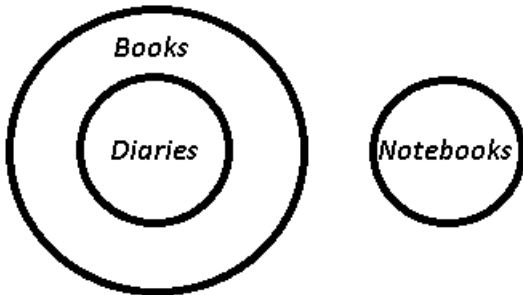
Conclusion II: All diaries are notebooks

- A Only conclusion I follows
- B Only conclusion II follows
- C Both conclusions I and II follow
- D Neither conclusion I nor conclusion II follows

Answer: A

Explanation:

The venn diagram for above statements is :



Conclusion I: No notebooks are diaries = true

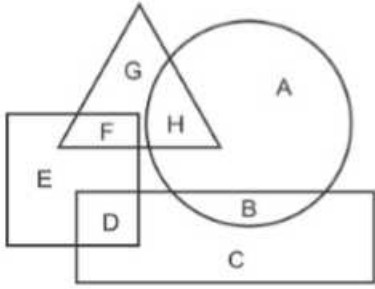
Conclusion II: All diaries are notebooks = false

Thus, only conclusion I follows.

=> Ans - (A)

Question 44

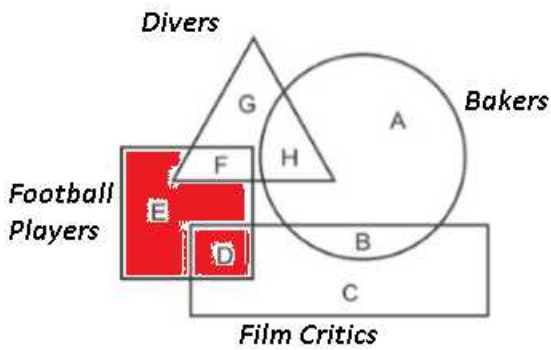
In the following figure, rectangle represents Film critics, circle represents Bakers, triangle represents Divers and square represents Football players. Which set of letters represents Football players who are not Divers?



- A ED
- B FD
- C GH
- D DC

Answer: A

Explanation:



Football players who are not Divers are represented by = ED

=> 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.

HPA, FMZ, DJY, BGX, ?

- A ZDW
- B ZEV
- C YDW
- D YEV

Answer: A

Explanation:

Series : HPA, FMZ, DJY, BGX, ?

The pattern followed in each letter of the terms is :

1st letter : H (-2 letters) = F (-2 letters) = D (-2 letters) = B (-2 letters) = Z

2nd letter : P (-3 letters) = M (-3 letters) = J (-3 letters) = G (-3 letters) = D

3rd letter : A (-1 letter) = Z (-1 letter) = Y (-1 letter) = X (-1 letter) = W

Thus, missing term = **ZDW**

=> Ans - (A)

Question 46

In the following question, select the missing number from the given series.
672, 666, 660, 654, ?

A 648

B 646

C 650

D 640

Answer: A

Explanation:

'6' is subtracted from all the numbers.

$$672 - 6 = 666$$

$$666 - 6 = 660$$

$$660 - 6 = 654$$

$$654 - 6 = \mathbf{648}$$

=> Ans - (A)

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 (61, 64, 71)

B (57, 60, 69)

C (75, 78, 85)

D (89, 92, 99)

Answer: B

Explanation:

The numbers are of the form : $(x, x + 3, x + 10)$

But in the second option, we have = $57 + 10 = 67 \neq 69$

Thus, (57, 60, 69) is the odd one out.

=> Ans - (B)

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Question 48

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



A



B



C



D



Answer: A

Explanation:

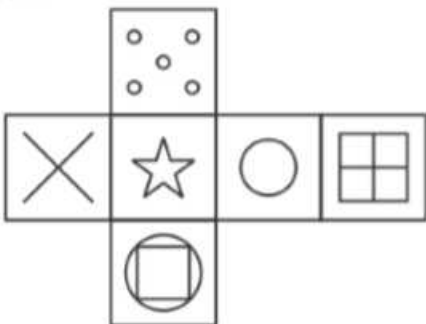
A horizontal mirror is placed, so the object on the top will appear at the bottom in reverse position and vice-versa.

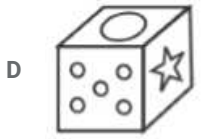
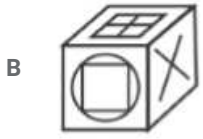
So, the semi circle at the left edge of square will still remain there but the colored portion will now be at top as opposed to at the bottom in the question figure, hence first option is the right image.

=> Ans - (A)

Question 49

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

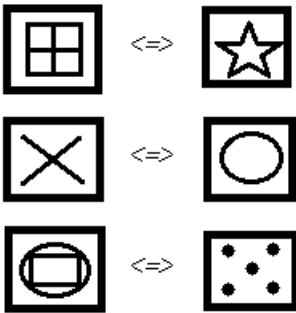




Answer: C

Explanation:

When we fold the given figure, the circle with a 'star' sign will become the base of the cube and the side with 'square window 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 third option is not possible.

=> Ans - (C)

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 'F' can be represented by 24, all etc and 'P' can be represented by 58, 87 etc. Similarly, you have to identify the set for the word 'UNIT'.

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

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

A 22,78,34,69

B 22,67,34,59

C 14,69,24,75

D 85,67,13,57

Answer: D

Explanation:

(A) : 22,78,34,69 = AXKP

(B) : 22,67,34,59 = ANKW

(C) : 14,69,24,75 = HPHQ

(D) : 85,67,13,57 = UNIT

=> Ans - (D)

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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 picked (a)/ on the (b)/ trail soon after. (c)/ No error (d)

A She picked

B on the

C trail soon after

D No error

Answer: B

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Question 52

Internet Service Providers (ISPs) should provide us (a)/ with open networks and should not block or discriminate for (b)/ any application or content that rides over those networks. (c)/ No error (d)

A Internet Service Providers (ISPs) should provide us

B with open networks and should not block or discriminate for

C any application or content that rides over those networks

D No error

Answer: B

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

Meera cannot _____ the exam's results.

- A depict
- B await
- C envision
- D observe

Answer: B

Question 54

Being linked with nature brings joy and peace as it is the _____ of the laws of Nature.

- A dissent
- B refusal
- C acknowledgement
- D sustenance

Answer: C

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Instructions

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

Question 55

Felicity

- A Bliss
- B Misery
- C Grief
- D Trouble

Answer: A

Question 56

Chafe

- A Chain
- B Safe
- C Irritate
- D Joy

Answer: C

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

Forgo

- A Forfeit
- B Neglect
- C Conquer
- D Pass

Answer: C

Question 58

Banter

- A Teasing
- B Praise
- C Fun
- D Gossip

Answer: B

Instructions

For the following questions answer them individually

Question 59

Rearrange the parts of the sentence in correct order.

Gender inequality has

P : it reduces economic growth

Q : development goals as

R : adverse impact on

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

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. Who did this?

- A This was done by who?
- B By who this was done?
- C By whom this was done?

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D By whom was this done?

Answer: D

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Question 61

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

Ram said, "I have cleared the clutter."

- A Ram told that he cleared the clutter.
- B Ram says that he cleared the clutter.
- C Ram said that he had cleared the clutter.
- D The clutter was cleared by Ram

Answer: C

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 Beizarre
- B Bizaarre
- C Bizarre
- D Bigarre

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.

One should always keep in mind that psychology is essentially a laboratory science, and _____ a text-book subject. The laboratory material is to be _____ in ourselves. While the text should be thoroughly mastered, its statements should always be verified _____ reference to one's own experience, and observation of others. Prospective teachers should constantly correlate the lessons of the book _____ the observation of children at work in the school. The problems suggested for _____ and introspection will, if mastered, do much to render practical help to find the truths of psychology.

Question 63

science, and _____ a text-book subject.

- A nor
- B neither
- C not
- D none

Answer: C

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Question 64

material is to be _____ in ourselves

- A find
- B finding
- C found
- D finds

Answer: C

Question 65

always be verified _____ reference to one's own.

- A to
- B at
- C by
- D for

Answer: C

Question 66

lessons of the book _____ the observation of children

- A with
- B until
- C from
- D upon

Answer: A

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Question 67

suggested for _____ and introspection will

- A observe
- B observes
- C observed
- D observation

Answer: D

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 large

- A A very big opportunity.
- B A criminal escaped or not yet captured.
- C To have a big heart.
- D A big appetite.

Answer: B

Question 69

Head over heels

- A To do things exactly opposite of what is expected.
- B Madly in love.
- C To do stupid things.
- D To unknowingly dive into an unpleasant situation.

Answer: B

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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

Beyond or above the range of normal or physical human experience

- A Mundane
- B Transcendent
- C Ribald
- D Coarse

Answer: B

Question 71

Capable of being imagined or grasped mentally

- A Dazzling
- B Conceivable
- C Stunning
- D Spectacular

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

As he tried harder, his steps slowed, his senses (was activated).

- A is activated
- B were activated
- C were activate
- D no improvement

Answer: B

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Question 73

My daughter (comes running) as fast as her little feet can take her while her eyes sparkle vivaciously.

- A comes run
- B come running
- C came run
- D no improvement

Answer: D

Instructions

For the following questions answer them individually

Question 74

The question below consists of a set of labelled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph.

Leadership and

A-team-building skills deepened

B-for relationships

C-a sense of value

- 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 percoletion
- B parcolation
- C percolation
- D parcoletion

Answer: C

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General Awareness

Instructions

For the following questions answer them individually

Question 76

Sudden decrease of birth rate would cause _____.

- A increase in per capita income
- B increase in investment
- C increase in savings
- D increase in loan requests

Answer: A

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Question 77

In the last one decade, which one among the following sectors has attracted the highest foreign direct investment inflows into India?

- A Food processing
- B Petro-chemical
- C Chemicals other than fertilizers
- D Telecommunications

Answer: D

Question 78

Harshavardhan's Vallabhi conquest is found in which of the following inscriptions?

- A Aihole Pillar Inscription
- B Junagadh Inscription

- C Navsari Copperplate Inscription
- D Damodarpur copper plate Inscription

Answer: C

Question 79

What was the northwestern border of the Mughal Empire during the reign of Akbar?

- A Punjab
- B Hindukush
- C Kabul
- D Sindh

Answer: B

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Question 80

What is the minimum distance from the Sun to a planet in its orbit called?

- A perihelion
- B aphelion
- C Apogee
- D Perigee

Answer: A

Question 81

Another name for Indira Point is:

- A Parson point
- B La-Hi-Ching
- C Pygmalion point
- D All options are correct.

Answer: D

Question 82

What was the real name of Swami Vivekananda?

- A Surendranath Bose
- B Narendranath Dutt
- C Vidyadhar Roy
- D Shyamal Bose

Answer: B

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Question 83

Military exercise 'Prabal Dosty' Which was held in November 2017 was conducted between _____.

- A India and Afghanistan
- B India and Kazakhstan
- C India and Uzbekistan
- D India and Turkmenistan

Answer: B

Question 84

Who among the following has been awarded the "Rajiv Gandhi Khel Ratna Award" for the year 2017?

- A Jitu Rai
- B Jasvir Singh
- C Sardar Singh
- D S.V. Sunil

Answer: C

Question 85

Vedda is a tribe of which of the following countries?

- A Maldives
- B Myanmar
- C Sri Lanka
- D Bangladesh

Answer: C

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Question 86

Which of the following is natural fiber?

- A Silk
- B Rayon
- C Nylon

D Polyester

Answer: A

Question 87

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

A Oxides of non-metals are basic.

B Oxides of non-metals are acidic.

C Oxides of metals are acidic.

D All options are correct.

Answer: B

Question 88

In India, which of the following body is Constitutional in nature?

A NITI Aayog

B National Human Rights Commission

C Central Vigilance Commission

D Finance Commission

Answer: D

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Question 89

Which part of the Indian Constitution deals with 'The Municipalities'?

A Part VII

B Part VIII

C Part XI

D Part IX A

Answer: D

Question 90

Organisms use bio-catalyst to break down complex substances into simpler substances. These bio-catalysts are called _____.

A enzymes

B hormones

C vitamins

D No option is correct.

Answer: A

Question 91

The first step of process of nutrition is the breakdown of glucose into a three-carbon molecule called _____.

- A pyruvate
- B propanol
- C propane
- D methanol

Answer: A

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Question 92

- "Saubhagya" scheme was launched to provide which of the following?

- A Water connections
- B LPG connections
- C Electricity connections
- D Broadband connections

Answer: C

Question 93

Which of the following became first Indigenously developed vaccine from India to be pre-qualified by World Health Organisation?

- A Rotavac
- B Hemophile
- C Pentavac
- D Pneumococca

Answer: A

Question 94

In July 2017, RBI Capped how much Customer liability if they report unauthorised transactions within seven working days?

- A Rs 50,000
- B Rs 25,000
- C Rs 1,00,000
- D Rs 75,000

Answer: B

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Question 95

On 10 April 2017, Lok Sabha passed the Motor Vehicles (Amendment) Bill, 2016. The Bill seeks to amend _____.

- A Motor Vehicles Act, 1988
- B Motor Vehicles Act, 1998
- C Motor Vehicles Act, 2005
- D Motor Vehicles Act, 2010

Answer: A

Question 96

What is the effective resistance (in Ω) of two resistors 20Ω and 30Ω connected in parallel?

- A 50
- B 12
- C 24
- D 25

Answer: B

Question 97

1 km/hr equals _____ m/s.

- A 5/18
- B 18/5
- C 5/16
- D 16/5

Answer: A

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Question 98

To keep warm, polar bears have a layer of _____ under their skin.

- A muscle
- B fat
- C cartilage
- D hair

Answer: B

Question 99

Which of the statements given below are correct?

- A) Maverick Viñales won the 2017 Qatar Motorcycle Grand Prix MotoGP.
- B) In 2017, Zaheer Khan captained the IPL team Royal Challengers Bangalore.
- C) In 2017, Gautam Gambhir captained the IPL team Kolkata Knight Riders.

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

Answer: C

Question 100

In Microsoft Word, font, font style, size, font color etc. are options of _____.

- A Character formatting
- B Paragraph formatting
- C Sentence formatting
- D Font formatting

Answer: A

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