



SSC CHSL 5 March 2018 Evening Shift

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Instructions

For the following questions answer them individually

Question 1

Arrange the fractions $\frac{3}{4}, \frac{5}{12}, \frac{13}{16}, \frac{16}{29}, \frac{3}{8}$ ascending order of magnitude

A $\frac{3}{4} < \frac{3}{8} < \frac{13}{16} < \frac{16}{29} < \frac{5}{12}$

B $\frac{3}{8} < \frac{5}{12} < \frac{16}{29} < \frac{3}{4} < \frac{13}{16}$

C $\frac{3}{8} < \frac{5}{12} < \frac{16}{29} < \frac{13}{16} < \frac{3}{4}$

D $\frac{3}{8} < \frac{5}{12} < \frac{13}{16} < \frac{16}{29} < \frac{3}{4}$

Answer: B

Explanation:

Fractions : $\frac{3}{4}, \frac{5}{12}, \frac{13}{16}, \frac{16}{29}, \frac{3}{8}$

L.C.M. of denominators (4,12,16,29,8) = 1392

Thus, fractions are changed to : $\frac{1044}{1392}, \frac{580}{1392}, \frac{1131}{1392}, \frac{768}{1392}, \frac{522}{1392}$

Now the denominators are equal and fraction are arranged on the basis of numerators

$$= \frac{522}{1392} < \frac{580}{1392} < \frac{768}{1392} < \frac{1044}{1392} < \frac{1131}{1392}$$

$$\equiv \frac{3}{8} < \frac{5}{12} < \frac{16}{29} < \frac{3}{4} < \frac{13}{16}$$

=> Ans - (B)

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Question 2

Calculate the value of $(3+\sqrt{3})$ if $\sqrt{3} = 1.7320$

A 0.366

B 0.566

C 0.356

D 0.346

Answer: A

Explanation:

Expression : $(3+\sqrt{3})$ if $\sqrt{3} = 1.7320$

Rationalizing the denominator :

$$= (3+\sqrt{3}) \times \frac{(3-\sqrt{3})}{(3-\sqrt{3})}$$

$$= \frac{\sqrt{3}(3-\sqrt{3})}{(3)^2-(\sqrt{3})^2} = \frac{3\sqrt{3}-3}{9-3}$$

$$= \frac{\sqrt{3}-1}{2} = \frac{(1.7320-1)}{2}$$

$$= \frac{0.7320}{2} = 0.366$$

=> Ans - (A)

Question 3

Determine the value of 'a' which satisfies the equation $9^{\sqrt{a}} + 40^{\sqrt{a}} = 41^{\sqrt{a}}$

A 1

B 2

C 3

D 4

Answer: D

Explanation:

$$\text{Expression : } 9^{\sqrt{a}} + 40^{\sqrt{a}} = 41^{\sqrt{a}}$$

Since equation consists of natural numbers, then 'a' must be an integer. Thus, substituting 'a' by perfect square numbers :

Put $a = 1$

$$\Rightarrow 9^{\sqrt{1}} + 40^{\sqrt{1}} = 41^{\sqrt{1}}$$

$$\text{L.H.S.} = 9 + 40 = 49 \neq \text{R.H.S.}$$

Now, putting $a = 4$

$$\Rightarrow 9^{\sqrt{4}} + 40^{\sqrt{4}} = 41^{\sqrt{4}}$$

$$\text{L.H.S.} = 9^2 + 40^2 = 81 + 1600 = 1681$$

$$\text{R.H.S.} = 41^2 = 1681$$

Thus, $a = 4$

=> Ans - (D)

Question 4

5 bottles cost as much as 2 bags. The cost of 15 bottles and 4 bags is Rs 2,000. What is the price (in Rs.) of a single bag?

A 200

B 215

C 240

D 250

Answer: A

Explanation:

Let price of a single bag = Rs. x and price of a bottle = Rs. y

$$5 \text{ bottles cost as much as 2 bags} \Rightarrow 5y = 2x$$

Multiplying both sides by 3, we get : $15y = 6x$ -----(i)

$$\text{According to ques,} \Rightarrow 4x + 15y = 2000$$

Substituting value from equation (i), $\Rightarrow 4x + 6x = 2000$

$$\Rightarrow x = \frac{2000}{10} = \text{Rs. } 200$$

=> Ans - (A)

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Question 5

If any two sides of a triangle are divided by the line in the same ratio, then the line must be _____ to the third side of the triangle.

- A equal
- B parallel
- C perpendicular
- D non parallel

Answer: B

Explanation:

According to the Basic Proportionality Theorem, if any two sides of a triangle are divided by the line in the same ratio, then the line must be **parallel** to the third side of the triangle.

=> Ans - (B)

Question 6

If the radius of a circumscribed circle in an equilateral triangle is 14 cm. Then what will be the radius (in cm) of the inscribed circle?

- A 7
- B 14
- C 28
- D 35

Answer: A

Explanation:

In any triangle ratio of circumradius to inradius = 2 : 1

According to ques, circumradius = 14 cm

$$\Rightarrow \text{Inradius} = \frac{14}{2} = 7 \text{ cm}$$

=> Ans - (A)

Question 7

If 35% of $(x + y) = 40\%$ of $(x - y)$, then x is what percentage of y ?

- A 1500
- B 150
- C 15
- D 105

Answer: A

Explanation:

Expression : 35% of $(x + y) = 40\%$ of $(x - y)$

$$\Rightarrow 100 \times (x + y) = \frac{40}{35} \times (x - y)$$

$$\Rightarrow 35x + 35y = 40x - 40y$$

$$\Rightarrow 40x - 35x = 35y + 40y$$

$$\Rightarrow 5x = 75y$$

$$\Rightarrow \frac{x}{y} = \frac{75}{5} = 15$$

$$\therefore \text{Required \%} = 15 \times 100 = 1500\%$$

\Rightarrow Ans - (A)

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Question 8

The ratio of two numbers is 6 : 11 and their difference is 65. What will be the smaller number among both the numbers?

A 58

B 65

C 52

D 78

Answer: D

Explanation:

Let the numbers be $6x$ and $11x$

$$\text{Difference} = 11x - 6x = 65$$

$$\Rightarrow x = \frac{65}{5} = 13$$

$$\therefore \text{Smaller number} = 6 \times 13 = 78$$

\Rightarrow Ans - (D)

Question 9

In a mixture of milk and water, there is 19% milk. If the quantity of milk in the mixture is 437 millilitres, then what is the total quantity (in millilitres) of mixture?

A 2300

B 2200

C 2350

D 2400

Answer: A

Explanation:

Let total quantity of mixture (milk+water) = $100x$ ml

$$\Rightarrow \text{Quantity of milk} = \frac{19}{100} \times 100x = 19x \text{ ml}$$

Also, it is given that quantity of milk = 437 ml

$$\Rightarrow 19x = 437$$

$$\Rightarrow x = \frac{437}{19} = 23$$

$$\therefore \text{Total quantity of mixture} = 100 \times 23 = 2300 \text{ ml}$$

\Rightarrow Ans - (A)

Question 10

If in the population of a town there is an increase of 44% in the first year and 75% in the second year, then what is the average rate of increase in the population?

- A 45%
- B 59.5%
- C 74%
- D 76%

Answer: D

Explanation:

Let population of town initially = $100x$

Population after 44% increase in 1st year = $100x + \frac{44}{100} \times 100x = 144x$

Population after 75% increase in 2nd year = $144x + \frac{75}{100} \times 144x = 252x$

Thus, rate of increase in population = $\frac{(252x-100x)}{100x} \times 100 = 152\%$

=> Average rate of increase in the population in 2 years = $\frac{152}{2} = 76\%$

=> Ans - (D)

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Question 11

A sum of Rs 2000 becomes Rs 3645 in 2 years at a certain rate of compound interest. What will be the sum (in Rs) after 4 years?

- A 5942.125
- B 6643.0125
- C 7243.0125
- D 7498.125

Answer: B

Explanation:

Principal amount = Rs. 2000

Amount after 2 years = Rs. 3645

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

=> $2000(1 + \frac{r}{100})^2 = 3645$

=> $(1 + \frac{r}{100})^2 = \frac{3645}{2000} = 1.8225$

Squaring both sides, => $(1 + \frac{r}{100})^4 = 3.32150625$ -----(i)

∴ Sum after 4 years = $P(1 + \frac{r}{100})^4$

Substituting value from equation (i), we get :

= $2000 \times 3.32150625 = Rs. 6643.0125$

=> Ans - (B)

Question 12

Mohit sells a table at a profit of 25%. If he reduces its selling price by Rs 240, then he suffers a loss of 5%. What was the initial selling price (in Rs) of the table?

- A 800
- B 1000
- C 1040
- D 1120

Answer: B

Explanation:

Let cost price = Rs. $100x$

Profit % = 25%

$$\Rightarrow \text{Selling price} = 100x + \frac{25}{100} \times 100x = \text{Rs. } 125x$$

If he reduces its selling price by Rs 240, then new Selling price = Rs. $(125x - 240)$

$$\text{Now, loss \%} = \frac{(C.P. - S.P.)}{C.P.} \times 100$$

$$\Rightarrow \frac{100x - (125x - 240)}{100x} \times 100 = 5$$

$$\Rightarrow 240 - 25x = 5x$$

$$\Rightarrow 5x + 25x = 30x = 240$$

$$\Rightarrow x = \frac{240}{30} = 8$$

\therefore Initial selling price = $125 \times 8 = \text{Rs. } 1000$

\Rightarrow Ans - (B)

Question 13

If two successive discounts of 25% and 30% are given, then what will be the ratio of marked price to selling price?

- A 20 : 7
- B 40 : 21
- C 20 : 17
- D 40 : 33

Answer: B

Explanation:

Let marked price = Rs. $100x$

$$\text{Price after 1st discount of 25\%} = 100x - \frac{25}{100} \times 100x = \text{Rs. } 75x$$

$$\text{Selling Price after 2nd discount of 30\%} = 75x - \frac{30}{100} \times 75x = \text{Rs. } 52.5x$$

$$\Rightarrow \text{Ratio of marked price to selling price} = \frac{100x}{52.5x}$$

$$= \frac{1000}{525} = 40 : 21$$

\Rightarrow Ans - (B)

Question 14

If 49 is subtracted from the square of a number, then the result obtained is 576. What is the number?

- A 24
- B 25
- C 23
- D 27

Answer: B

Explanation:

Let the number be x

According to ques,

$$\Rightarrow x^2 - 49 = 576$$

$$\Rightarrow x^2 = 576 + 49 = 625$$

$$\Rightarrow x = \sqrt{625} = 25$$

\Rightarrow Ans - (B)

Question 15

P, Q and R together can make a table in 40 minutes. P and Q together can make it in 60 minutes. How much time (in minutes) will R alone take to make the table?

- A 100
- B 120
- C 90
- D 150

Answer: B

Explanation:

Let total manwork required to build the table = L.C.M. (40,60) = 120 units

P, Q and R together can make the table in 40 minutes.

$$\Rightarrow \text{Total efficiency of P, Q and R together} = \frac{120}{40} = 3 \text{ units/min}$$

$$\text{Similarly, (P+Q)'s efficiency} = \frac{120}{60} = 2 \text{ units/min}$$

$$\Rightarrow \text{R's efficiency} = 3 - 2 = 1 \text{ unit/min}$$

$$\therefore \text{Time required by R alone to build the table} = \frac{120}{1} = 120 \text{ minutes}$$

\Rightarrow Ans - (B)

Question 16

Two trains are running in opposite directions with the same speed. If the length of each train is 486 metres and they cross each other in 27 seconds, then what is the speed (in km/hr) of each train?

- A 55
- B 56.4
- C 64.8

D 73.2

Answer: C

Explanation:

Let speed of each train = x km/hr

Since, the trains are running in opposite directions, then total length = 486 m

$$\text{Speed} = \frac{486}{27} = 18 \text{ m/s}$$

$$\Rightarrow \text{Speed (in km/hr)} = 18 \times \frac{18}{5} = 64.8$$

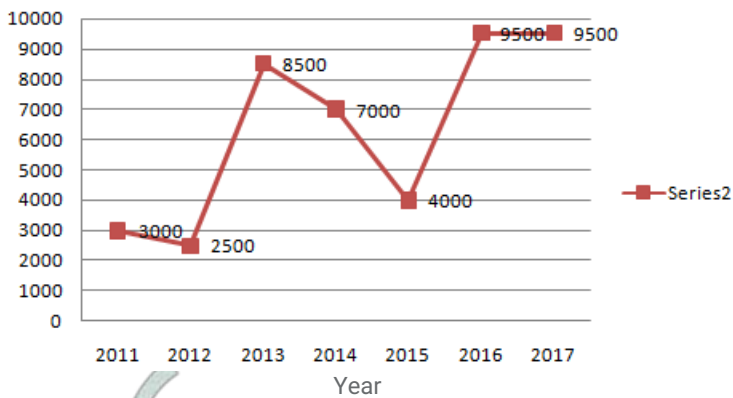
\Rightarrow Ans - (C)

SSC CHSL Important Questions and Answers (Download PDF)

Instructions

The line graph shows the number of students admitted in the give year to a certain Uniiversity. Study the diagram and answer the following questions.

Admissions



Question 17

In which year were admissions greater than that of the previous year?

A 2013

B 2012

C 2015

D 2014

Answer: A

Explanation:

$$\text{Number of more admissions in 2013 than in 2012} = 8500 - 2500 = 6000$$

$$\text{Number of more admissions in 2016 than in 2015} = 9500 - 4000 = 5500$$

\Rightarrow In **2013**, admissions were greater than that of the previous year.

\Rightarrow Ans - (A)

Question 18

What was the difference in admissions between the years 2016 and 2012?

A 6000

B 7500

C 6500

D 7000

Answer: D

Explanation:

Number of admissions in 2012 = 2500

Number of admissions in 2016 = 9500

=> Required difference = $9500 - 2500 = 7000$

=> Ans - (D)

Question 19

Admissions in 2016 were greater than that in 2015 by _____.

A 117.50 %

B 137.50%

C 45%

D 55%

Answer: B

Explanation:

Number of admissions in 2015 = 4000

Number of admissions in 2016 = 9500

=> Required % increase = $\frac{(9500-4000)}{4000} \times 100$

= $\frac{550}{4} = 137.50\%$

=> Ans - (B)

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Question 20

If average fees per student collected in 2014 was Rs 20,000 what were the total fees collected (in Rs lakhs) in 2014?

A 1400

B 1500

C 1700

D 1600

Answer: A

Explanation:

Number of admissions in 2014 = 7000

Average fees collected in 2014 = Rs. 20,000

=> Total fees collected = $7000 \times 20,000$

= Rs. 1400 lakhs

=> Ans - (A)

Instructions

For the following questions answer them individually

Question 21

The perimeter and the breadth of a rectangle are 44 cm and 10 cm respectively. Find its area cm^2

- A 60
- B 240
- C 120
- D 180

Answer: C

Explanation:

Let length of rectangle = l cm and breadth = 10 cm

$$\Rightarrow \text{Perimeter} = 2(l + 10) = 44$$

$$\Rightarrow l + 10 = \frac{44}{2} = 22$$

$$\Rightarrow l = 22 - 10 = 12 \text{ cm}$$

$$\therefore \text{Area} = 12 \times 10 = 120 \text{ cm}^2$$

\Rightarrow Ans - (C)

Question 22

What is the measure (in degree) of an exterior angle of a regular polygon of 9 sides?

- A 36
- B 40
- C 30
- D 24

Answer: B

Explanation:

Sum of exterior angles of any polygon = 360°

$$\Rightarrow \text{Measure of each exterior angle of regular polygon with 9 sides} = \frac{360^\circ}{9} = 40^\circ$$

\Rightarrow Ans - (B)

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Question 23

Find the volume in cm^3 of a right circular cylinder of diameter 21 cm and height 10 cm.

- A 3118
- B 3275
- C 3621
- D 3465

Answer: D

Explanation:

Radius of cylinder = $\frac{21}{2} = 10.5$ cm and height = 10 cm.

=> Volume of cylinder = $\pi r^2 h$

$$= \frac{22}{7} \times 10.5 \times 10.5 \times 10$$

$$= 22 \times 15 \times 10.5 = 3465 \text{ cm}^3$$

=> Ans - (D)

Question 24

$\triangle ABC$ is right angled at B . If $m\angle C = 60^\circ$, then find the value of $(\cot A - \frac{1}{2})$?

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

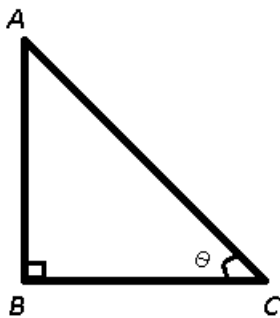
B $\frac{(3-\sqrt{2})}{3\sqrt{2}}$

C $\frac{(2\sqrt{3}-1)}{2}$

D $\frac{(\sqrt{2}-\sqrt{3})}{\sqrt{6}}$

Answer: C

Explanation:



Given : $\triangle ABC$ is a right angled at B and $\angle C = 60^\circ$

=> $\angle A = 30^\circ$

$$\Rightarrow \cot A = \cot(30^\circ) = \sqrt{3}$$

To find : $\cot A - \frac{1}{2}$

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

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

=> Ans - (C)

Question 25

In $\triangle ABC$ measure of angle B is 90° . If $\operatorname{cosec} A = 13/12$, and $AB = 10$ cm, then what is the length (in cm) of side AC ?

A 24

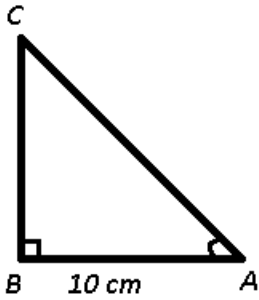
B 12

C 14

D 26

Answer: D

Explanation:



Given : $AB = 10 \text{ cm}$ and $\operatorname{cosec} A = 13/12$

$$\Rightarrow \operatorname{cosec} A = \frac{AC}{BC} = \frac{13}{12}$$

Let $AC = 13x$ and $BC = 12x$

In right triangle ABC, $\Rightarrow (AC)^2 = (AB)^2 + (BC)^2$

$$\Rightarrow (13x)^2 = (10)^2 + (12x)^2$$

$$\Rightarrow 169x^2 - 144x^2 = 100$$

$$\Rightarrow 25x^2 = 100$$

$$\Rightarrow x^2 = \frac{100}{25} = 4$$

$$\Rightarrow x = \sqrt{4} = 2$$

$$\therefore AC = 13 \times 2 = 26 \text{ cm}$$

\Rightarrow Ans - (D)

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Reasoning

Instructions

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

Question 26

Room : House :: ? : ?

- A Pedal : Rotate
- B Student : Study
- C Car : Steering
- D Needle : Clock

Answer: D

Explanation:

Expression = Room : House :: ? : ?

The first is a part of second, i.e. room is a part of a house, similarly needle is a part of a clock.

\Rightarrow Ans - (D)

Question 27

59 : 62 :: 66 : ?

- A 67
- B 71
- C 69
- D 70

Answer: C

Explanation:

Expression = 59 : 62 :: 66 : ?

The pattern followed is = $x : (x + 3)$

Eg :- 59 : 59 + 3 = 59 : 62

Similarly, 66 + 3 = 69

=> Ans - (C)

Question 28

HFZ : LJD :: ? : ?

- A KTM : OXQ
- B KBN : LCO
- C BHO : DJQ
- D FKU : INX

Answer: A

Explanation:

Expression = HFZ : LJD :: ? : ?

The pattern followed is :

H	F	Z
(+4)	(+4)	(+4)
L	J	D

Similar pattern is observed only in :

K	T	M
(+4)	(+4)	(+4)
O	X	Q

=> Ans - (A)

Instructions

For the following questions answer them individually

Question 29

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

- A Sister - Brother
- B Son - Friend
- C Father - Daughter

D Mother - Son

Answer: 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 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 15 - 225

B 25 - 625

C 35 - 1225

D 45 - 2525

Answer: D

Explanation:

The second number is the square of the first number.

$$(15)^2 = 225$$

$$(25)^2 = 625$$

$$(35)^2 = 1225$$

$$(45)^2 = 2025 \neq 2525$$

=> Ans - (D)

Question 31

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

A ADG

B HKN

C RUY

D GJM

Answer: C

Explanation:

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

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

(C) : R (+3 letters) = U (+4 letters) = Y

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

=> Ans - (C)

Question 32

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

1. Sonorous
2. Sometimes
3. Somber
4. Solution
5. Solve

- A 42513
B 45321
C 12543
D 32415

Answer: B

Explanation:

As per the order of dictionary :

= Solution -> Solve -> Somber -> Sometimes -> Sonorous

≡ 45321

=> Ans - (B)

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Question 33

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

2187, 729, 243, 81, 27, ?

- A 10
B 9
C 13
D 11

Answer: B

Explanation:

The pattern followed is :

$$3^7 = 2187$$

$$3^6 = 729$$

$$3^5 = 243$$

$$3^4 = 81$$

$$3^3 = 27$$

$$3^2 = 9$$

=> 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.
BKP, EMQ, IPS, NTV, ?

- A TYZ
- B SXY
- C SYZ
- D TXY

Answer: A

Explanation:

Series : BKP, EMQ, IPS, NTV, ?

The pattern followed in each letter of the terms is :

1st letter : B (+3 letters) = E (+4 letters) = I (+5 letters) = N (+6 letters) = T

2nd letter : K (+2 letters) = M (+3 letters) = P (+4 letters) = T (+5 letters) = Y

3rd letter : P (+1 letter) = Q (+2 letters) = S (+3 letters) = V (+4 letters) = Z

Thus, missing term = **TYZ**

=> Ans - (A)

Question 35

In a row of trucks, Ashok is at 17th position from the left end. Bharat is 19 places to the right from Ashok and is at the exact centre of the row. How many trucks are there to the right of Ashok truck?

- A 53
- B 54
- C 52
- D 19

Answer: B

Explanation:

Ashok's position from left end = 17th

Bharat's place from left end = $17 + 19 = 36$ th

Also, Bharat's place from right end = 36th

=> Total number of trucks = $(36 + 36) - 1 = 72 - 1 = 71$

∴ Number of trucks to the right of Ashok truck = $71 - 17 = 54$

=> Ans - (B)

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Question 36

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

Accounting

- A Count
- B Actually
- C Acting
- D Ant

Answer: B

Explanation:

The word 'ACCOUNTING' does not contain any 'y', thus the word *Actually* cannot be formed.

=> Ans - (B)

Question 37

In a certain code language, "MAYOR" is written as "NBZPS". How is "PLAYER" written in that code language?

A QBFTRZ

B ZRBMQF

C QMBZFS

D RBMQFS

Answer: C

Explanation:

"MAYOR" is written as "NBZPS"

The pattern followed is :

M	A	Y	O	R
(+1)	(+1)	(+1)	(+1)	(+1)
N	B	Z	P	S

Similarly, for PLAYER :

P	L	A	Y	E	R
(+1)	(+1)	(+1)	(+1)	(+1)	(+1)
Q	M	B	Z	F	S

=> Ans - (C)

Question 38

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

$$5 + 10 \times 21 \div 5 - 15 = ?$$

A 49

B 2

C 3

D 24

Answer: B

Explanation:

$$\text{Expression : } 5 + 10 \times 21 \div 5 - 15 = ?$$

$$\equiv 5 - 10 + 21 \times 5 \div 15$$

$$= -5 + \frac{105}{15}$$

$$= -5 + 7 = 2$$

=> Ans - (B)

Question 39

The following equation is incorrect. Which two signs should be interchanged to correct the equation? $10 \times 4 + 5 - 30 \div 6 = 31$

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

Answer: A

Explanation:

Expression : $10 \times 4 + 5 - 30 \div 6 = 31$

(A) : \times and $-$

$$\text{L.H.S.} = 10 - 4 + 5 \times 30 \div 6$$

$$= 6 + \frac{150}{6}$$

$$= 6 + 25 = 31 = \text{R.H.S.}$$

=> Ans - (A)

Question 40

If $3*1 = 20$, $6*1 = 50$ and $2*6 = -40$, then find the value of $5*8 = ?$

- A 100
- B 30
- C -50
- D -30

Answer: D

Explanation:

The pattern followed is : $a * b = (a - b) \times 10$

$$\text{Eg :- } 3*1 = (3 - 1) \times 10 = 20$$

$$6*1 = (6 - 1) \times 10 = 50$$

$$\text{and } 2*6 = (2 - 6) \times 10 = -40$$

$$\text{Similarly, } 5*8 = (5 - 8) \times 10 = -30$$

=> Ans - (D)

Question 41

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

$XYXYXYxY$, $XYXYXyXY$, $XYXYxYXY$, $XYXYXYXY$, $XYxYXYXY$, _____.

- A $XxYYYX$
- B $XyXYXYXY$
- C $XYYYXX$
- D $XxYYYXXY$

Answer: B

Explanation:

Series : XYXYXYxY, XYXYXyXY, XYXYxYXY, XYXyXYXY, XYxYXYXY, ?

The pattern followed is that one letter is written in small, and it is shifted one place to the left in each term and the rest are in capital.

Thus, missing term = XyXYXYXY

=> Ans - (B)

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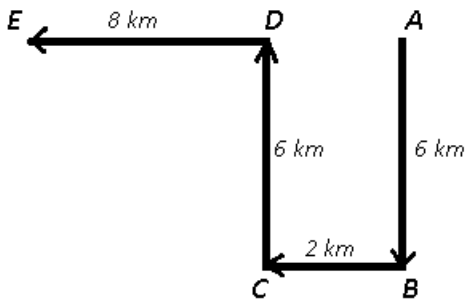
Question 42

A courier delivery man cycles 6 km South, then turns West and cycles 2 km West, then turns to his right and cycles 6 km, then turns West and cycles 8 km. Where is he now with respect to his starting position?

- A 10 km West
- B 6 km West
- C 10 km East
- D 6 km East

Answer: A

Explanation:



Let the courier delivery man starts from point A and cycles 6 km South, then from B, he turns West and cycles 2 km West, then turns to his right towards north and cycles 6 km, then turns West and cycles 8 km to finally reach point E.

Thus, he is 10 km to the west of his starting position.

=> 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: All fire are lighters

Statement II: Some matchboxes are fire

Conclusion I: No lighters are matchboxes

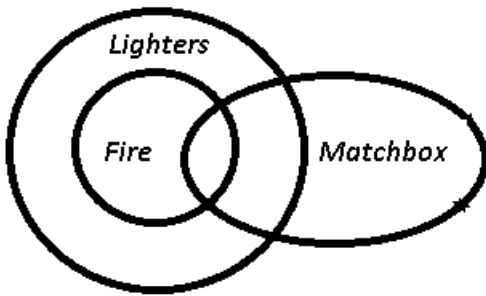
Conclusion II: All matchboxes are lighters

- A Only conclusion I follows
- B Only conclusion I I follows
- C Both conclusions I and II follow
- D Neither conclusion I no r conclusion II follows

Answer: D

Explanation:

The venn diagram for above statements is :



Conclusion I: No lighters are matchboxes = false

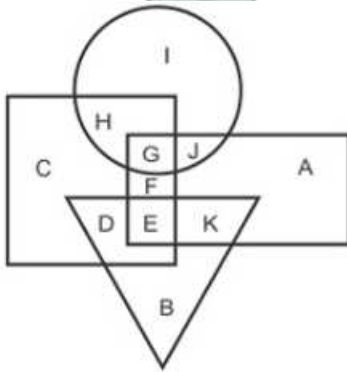
Conclusion II: All matchboxes are lighters = false

Thus, neither conclusion I nor conclusion II follows.

=> Ans - (D)

Question 44

In the following figure, rectangle represents Film directors, circle represents Cartoonists, triangle represents Campers and Square represents Cricketers. Which set of letters represents Cricketers who are also Cartoonists ?



A IJ

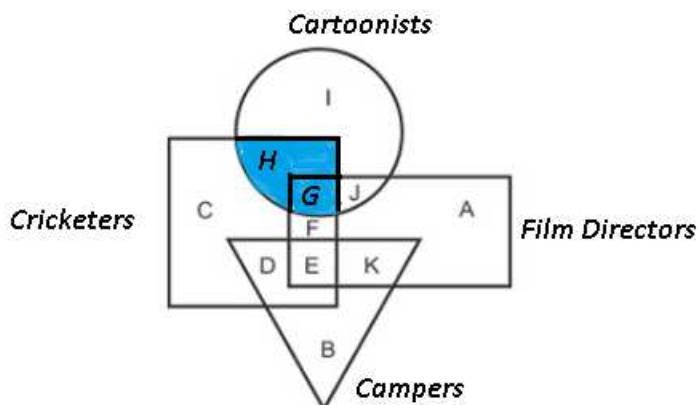
B CD

C HG

D DE

Answer: C

Explanation:



Set of letters that represents Cricketers who are also Cartoonists = G + H

=> Ans - (C)

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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.
CAP, AXL, YUH, WRD, ?

A VOA

B UPB

C VPB

D UOZ

Answer: D

Explanation:

Series : CAP, AXL, YUH, WRD, ?

The pattern followed in each letters of the terms is :

1st letter : C (-2 letters) = A (-2 letters) = Y (-2 letters) = W (-2 letters) = U

2nd letter : A (-3 letters) = X (-3 letters) = U (-3 letters) = R (-3 letters) = O

3rd letter : P (-4 letters) = L (-4 letters) = H (-4 letters) = D (-4 letters) = Z

Thus, missing term = **UOZ**

=> Ans - (D)

Question 46

In the following question, select the missing number from the given series.
59, 68, 78, 89, 101, ?

A 116

B 114

C 118

D 120

Answer: B

Explanation:

Consecutive integers are added.

$$59 + 9 = 68$$

$$68 + 10 = 78$$

$$78 + 11 = 89$$

$$89 + 12 = 101$$

$$101 + 13 = \mathbf{114}$$

=> Ans - (B)

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 (4, 8, 16)
- B (5, 10, 20)
- C (6, 12, 24)
- D (7, 14, 21)

Answer: D

Explanation:

The pattern followed is : $(a, 2a, 4a)$

Thus, in the last option $7 \times 4 = 28 \neq 21$

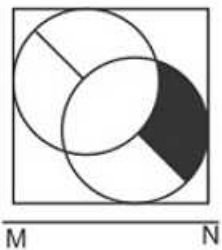
=> (7, 14, 21) is the odd one.

=> 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



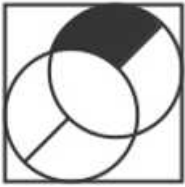
B



C



D



Answer: D

Explanation:

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

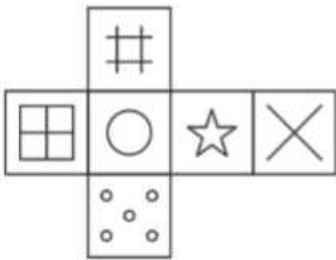
So the circle with black color at bottom right will now appear at top right, thus the first and third options will be eliminated.

Also, in the question figure the black portion will stay at the right side of the circle, hence fourth option is the right image.

=> Ans - (D)

Question 49

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



A



B



C



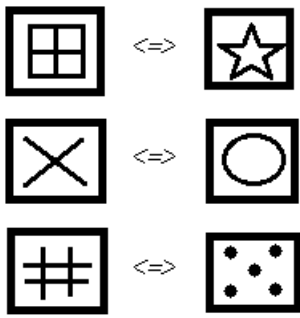
D



Answer: D

Explanation:

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

=> Ans - (D)

Question 50

A word is represented by only set of numbers as given in any 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 'I' can be represented by 20, 34 etc and 'Q' can be represented by 85, 96 etc. Similarly, You have to identify the set for the word 'BANG'.

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

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

- A 13,78,30,87
- B 22,41,65,11
- C 34,68,13,86
- D 41,85,22,58

Answer: B

Explanation:

- (A) : 13,78,30,87 = KYEZ
- (B) : 22,41,65,11 = **BANG**
- (C) : 34,68,13,86 = INKZ
- (D) : 41,85,22,58 = AQBT

=> Ans - (B)

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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

It was (a)/ difficult decided (b)/ about break up. (c)/ No error (d)

- A It was
- B difficult decided
- C about break up
- D No error

Answer: B

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Question 52

In June 2017, an anodyne footnote to the Bank of Baroda's (BoB) quarter results mentioned a (a)/ fine levied by the South African Reserve Bank (SARB), (b)/ headquartered in Pretoria. (c)/ No error (d)

- A In June 2017, an anodyne footnote to the Bank of Baroda's (BoB) quarter results mentioned a
- B fine levied by the South African Reserve Bank (SARB)
- C headquartered in Pretoria
- D No error

Answer: A

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

I am awful _____ picking vegetables.

- A for
- B at
- C of
- D as

Answer: B

Question 54

The demand of self-esteem is that never stand _____ for what you have the power to earn.

- A abetting
- B begging
- C caging
- D daring

Answer: B

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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

Imitate

- A Reverse
- B Ape
- C Clash
- D Repulse

Answer: B

Question 56

Incumbent

- A Increase
- B Redundant
- C Choice
- D Required

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

Inept

- A Clumsy
- B Artless
- C Inadept
- D Skillful

Answer: D

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Question 58

Meek

- A Quiet
- B Mode rate

C Assertive

D Humble

Answer: C

Instructions

For the following questions answer them individually

Question 59

Rearrange the parts of the sentence in correct order.

Some modern anthropologists hold that

P : but also human behaviour

Q : biological evolution has shaped

R : not only human morphology

A QRP

B RQP

C PQR

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.

Ram loves Sita.

A Sita was loved by Ram.

B Sita is loved by Ram.

C Sita loves by Ram.

D Sita loved by Ram.

Answer: B

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Question 61

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

The teacher said, "The moon goes round the earth."

A The teacher said that the moon goes round the earth.

B The teacher asked whether the moon goes round the earth.

C The teacher informed about moon going round the earth.

D The teacher asked whether moon goes round.

Answer: A

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 Curocity
- B Curoucity
- C Curiosity
- D Cuoisity

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.

Some with natural _____ would love to be in a scenic view and stare out of the window. Those nestlings could one day become a great biologist _____ a wildlife photographer or landscape artist to earn fame. Some always love to chit-chat with friends or family: encourage them so they have the ability to _____. It is a gift _____ verbal or linguistic creativity when they can tell stories, write essays, and converse easily with people. This _____ opportunities to them to be an orator, writer, poet, scholar or teacher.

Question 63

Some with natural _____ would love to be in a scenic

- A create
- B creation
- C creativity
- D creating

Answer: C

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Question 64

great biologist _____ a wildlife photographer

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

Answer: D

Question 65

the ability to _____. It is a

- A narration
- B narrating

C narrate

D narrator

Answer: C

Question 66

gift _____ verbal or linguistic creativity

A at

B from

C so

D of

Answer: D

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Question 67

This _____ opportunities to them

A opens

B open

C opening

D opened

Answer: A

Instructions

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

Question 68

A walk of life

A An easy comfortable life not necessarily prosperous.

B The most important day of your life.

C A person's occupation or position within society.

D Walking is the best form of exercise.

Answer: C

Question 69

Cut to the chase

A Come to the point.

B To run after somebody.

C To cut out the important bits of information.

D To take a short cut.

Answer: A

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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

Having a limited or narrow outlook or scope

- A Indulgent
- B Parochial
- C Egotistical
- D Liberal

Answer: B

Question 71

Well chosen or suited to the circumstances

- A Bias
- B Disparity
- C Asperity
- D Felicitous

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

I understood that we (is influenced) by what we see, what we hear.

- A was influenced
- B are influence
- C are influenced
- D no improvement

Answer: C

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Question 73

Tunnels (is built) to connect houses and places of worship whereas innovative trick doors were attached to the underground cities.

- A was built
- B were built
- C were building
- D no improvement

Answer: B

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.

I belong to the Indian

A-fare concession (LFC), I have a fair

B-banking family, and thanks to the leave

C-share of travelling experience

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

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 distilation
- B distillation
- C destillation
- D destilation

Answer: B

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General Awareness

Instructions

For the following questions answer them individually

Question 76

The modern economy is NOT characterized by _____.

- A self-sufficient village system
- B development of money economy

C capital intensive mode of production

D production for market

Answer: A

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Question 77

During which Five Year Planning was NABARD established?

A Fifth

B Sixth

C Third

D Ninth

Answer: C

Question 78

Which of the following is not counted under sub-vedas?

A Ayurveda

B Yajurveda

C Gandharva Veda

D Shilp Veda

Answer: B

Question 79

Who built the Moti Masjid in the Red Fort of Delhi?

A Akbar

B Jahangir

C Shah Jahan

D Aurangzeb

Answer: C

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Question 80

What is Syzygy?

A Position of sun, earth and moon in the straight line

B Earth's position between Sun and Moon

C Sun and Moon position on one side of the Earth

D The right angle position of Moon from the Sun and Earth

Answer: A

Question 81

Which of the following is NOT a part of the Western coastline?

A Kathiawar Coast

B Konkan Coast

C Malabar Coast

D Coromandel Coast

Answer: D

Question 82

Which of the following pair is matched correctly?

A Bharatanatyam - Andhra Pradesh

B Kuchipudi - Madhya Pradesh

C Kathakali - Kerala

D Kathak - Tamil Nadu

Answer: C

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Question 83

According to the Indus water treaty which river will be not governed by Pakistan?

A Indus

B Chenab

C Jhelum

D Ravi

Answer: D

Question 84

Which film has been awarded with best Environment film in 64th National film awards?

A Kassav

B Dashkriya

C Ventilator

D The tiger who crossed the line

Answer: D

Question 85

Bangladesh shares around how much length border with India?

- A 1,238 k m
- B 1,338 km
- C 1,438 km
- D 4,156 km

Answer: D

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Question 86

Which of the following statements are CORRECT?

- I. Melamine is a Thermosetting plastic.
- II. It resists fire.
- III It is a poor conductor of heat.

- A Only I and II
- B Only I and III
- C Only II and III
- D All I, II and III

Answer: D

Question 87

Which is the best fire-extinguisher?

- A Water
- B Oxygen
- C Carbon-dioxide
- D Soil

Answer: C

Question 88

Which part of the Indian Constitution deals with Amendment of the Constitution?

- A Part XI V
- B Part X VI
- C Part X VIII
- D Part XX

Answer: D

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Question 89

Who can make laws for Union Territories on any subject under the three lists Viz. union list, state list and concurrent list?

- A The President of India alone
- B The Parliament
- C The Prime Minister of India
- D Home Minister of India

Answer: B

Question 90

Pepsin is an enzyme that digests which substance?

- A proteins
- B starch
- C carbohydrate
- D fats

Answer: A

Question 91

Which is the CORRECT pair of inherited chromosomes for the child to be a girl?

- A X from father and Y from mother
- B Y from father and X from mother
- C Y from father and Y from mother
- D X from father and X from mother

Answer: D

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Question 92

How much loan has the World Bank agreed to provide to the Government of India for 'National Biopharma Mission' named 'i3'?

- A USD 255 million
- B USD 125 million
- C USD 100 million
- D USD 400 million

Answer: B

Question 93

Which of the following company has launched secret Zuma Mission for United States government?

- A Sierra Nevada Corporation
- B XCOR Aerospace
- C SpaceX
- D Boeing

Answer: C

Question 94

In May 2017, the Base year of All India Index of Industrial Production (IIP) has been revised to ____.

- A 2011-12
- B 2015-16
- C 2016-17
- D 2012-13

Answer: A

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Question 95

In April 2017, Agriculture Ministry Unveiled Model APMC Act. This is to give more freedom to sell their produce. What does 'M' stand for in 'APMC' act?

- A Managing
- B Market
- C Modifying
- D Ministerial

Answer: B

Question 96

Find the resistance (in mega Ω) of a wire of length 20m, cross sectional area 1 cm² and made of a material of resistivity 200 Ω m.

- A 40
- B 4000
- C 80
- D 20 00

Answer: A

Question 97

In which motion of a body its velocity varies with time?

- A uniform
- B linear
- C equilibrium
- D non-uniform

Answer: D

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Question 98

Air moves from the region where the air _____.

- A humidity is high to the region where the humidity is low
- B pressure is low to the region where the pressure is high
- C pressure is high to the region where the pressure is low
- D humidity is low to the region where the humidity is high

Answer: C

Question 99

Which of the statements given below are correct?

- A) In 2018 IPL auctions, Delhi Daredevils retained Rishabh Pant.
- B) In 2017, Daniel Ricciardo raced in Formula One for Red Bull Racing.
- C) Lewis Hamilton won the Formula One 2017 Malaysian Grand Prix.

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

Answer: D

Question 100

In Microsoft Word, under character formatting _____ is used to superscript and subscript.

- A Font style
- B Underline
- C Effects
- D Size

Answer: C

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