



SSC CHSL 23 Jan 2017 Morning Shift

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General Awareness

Instructions

For the following questions answer them individually

Question 1

Moti Masjid is situated in which of these World Heritage Sites?

- A Humayun's Tomb
- B Mahabodhi Temple Complex
- C Qutub Minar
- D Red Fort Complex

Answer: D

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Question 2

Kailash Satyarthi won Nobel Prize for?

- A Literature
- B Physics
- C Peace
- D Economic Studies

Answer: C

Question 3

Which is the largest part of the human brain?

- A Ribs
- B Cerebrum
- C Pons
- D Thalamus

Answer: B

Question 4

The auxiliary buds

- A grow endogenously from the pericycle
- B arise endogenously from the main growing point
- C is an embryonic shoot located in the axil of a leaf
- D arise exogenously from the epidermis

Answer: C

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Question 5

Which of the following is a viral disease?

- A Polio
- B Tetanus
- C Leprosy
- D Plague

Answer: A

Question 6

The Chemical formula of Ammonium dichromate is

- A $(NH_4)_2Cr_2O_7$
- B $(NH_4)CrO_3$
- C $(NH_4)Cr_2O_3$
- D $(NH_4)_2Cr_2O_3$

Answer: A

Question 7

The residual attractive or repulsive forces between molecules or atomic groups that do not arise from a covalent bond, or ionic bonds is called

- A Neutral Bond
- B Non Polar Bond
- C Electro Valence bond
- D Van der Walls bond

Answer: D

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Question 8

Two versions of the Internet Protocol (IP) are in use

- A IP Version 4 & IP Version 6
- B IP Version 2 & IP Version 3
- C IP Version 4 & IP Version 8
- D IP Version 2 & IP Version 4

Answer: A

Question 9

The Indian musical instrument 'Samvadini' is which type?

- A String
- B Wind
- C Percussion
- D Impact

Answer: B

Question 10

Calculate the accounting profits for a firm, if its economic profits for the year are Rs 60 crores, total implicit costs are Rs 18.5 crores and total explicit costs are Rs 35 crores

- A Rs 113.5 crores
- B Rs 43.5 crores
- C Rs 76.5 crores
- D Rs 78.5 crores

Answer: D

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Question 11

If tea companies start using mechanised tea leave pickers

- A more people would want to work as tea leave pickers
- B unemployment of tea leave pickers will decrease
- C more tea will be produced per acre
- D then wages for manual tea leave pickers will fall

Answer: D

Question 12

Ozone is represented as

- A O_3
- B H_2O_2
- C Cl_2O
- D N_2O

Answer: A

Question 13

Which organisms can help to carry out Vermicomposting?

- A Nitrifying Bacteria
- B Earthworms
- C Algae
- D Fungus

Answer: B

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Question 14

The SLR is determined by the RBI. SLR stands for

- A States Leverage Return
- B Savings Lease Rate
- C Statutory Liquidity Ratio
- D Safe Legal Range

Answer: C

Question 15

Which planet has the maximum number of satellites?

- A Jupiter
- B Earth
- C Neptune
- D Saturn

Answer: A

Question 16

What is the capital of Norway?

- A Buenos Aires
- B Rome
- C Ottawa
- D Oslo

Answer: D

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Question 17

Which country was a part of the Axis Powers during World War 2?

- A Yugoslavia
- B Poland
- C Belgium
- D Hungary

Answer: D

Question 18

Who was the trusted General of the Mughal emperor Akbar?

- A Raja Todar Mal
- B Man Singh I
- C Birbal
- D Tansen

Answer: B

Question 19

Who Invented Neon Lamp?

- A Vint Cerf
- B David Chaum
- C Georges Claude
- D Josephine Cochrane

Answer: C

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Question 20

Instrument for measuring time is called

- A Diagonometer
- B Anemometer
- C Durometer
- D Chronometer

Answer: D

Question 21

If the radius of the earth decreases and its mass remains the same, then the value of "acceleration due to gravity" will

- A decrease
- B increase

C remain the same

D become zero

Answer: B

Question 22

The number of parliamentary seats (Rajya Sabha) of Uttar Pradesh is

A 12

B 16

C 18

D 31

Answer: D

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Question 23

Article 222 of the Indian Constitution "Transfer of a Judge from one High Court to another" deals with?

A the directive principles of state policy

B the Union Government

C the State Government

D the fundamental rights of the Indian Citizen

Answer: C

Question 24

Inderjeet Singh is related to

A Shot put

B Hockey

C Lawn Tennis

D Swimming

Answer: A

Question 25

Who is the author of "It's All in the Planets"?

A Preeti Shenoy

B Ravinder Singh

C Keshav Aneel

D Durjoy Datta

Answer: A

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Mathematics

Instructions

For the following questions answer them individually

Question 26

Point P is the midpoint of segment AB. Co-ordinates of P are (5,-4) and A are (7,0). What will be the co-ordinates of point B?

A (3, -8)

B (-3, -8)

C (3, 8)

D (-3, 8)

Answer: A

Explanation:

Coordinates of midpoint of line joining A = (x_1, y_1) and B = (x_2, y_2) is $(\frac{x_1+x_2}{2}, \frac{y_1+y_2}{2})$

P (5,-4) is mid point of A (7,0) and B (x,y)

$$\Rightarrow 5 = \frac{x+7}{2}$$

$$\Rightarrow x = 10 - 7 = 3$$

Similarly, $-4 = \frac{y+0}{2}$

$$\Rightarrow y = -8$$

∴ Coordinates of B = (3,-8)

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Question 27

What is the value of 299996×300004 ?

A 89999999984

B 89999699984

C 89999999884

D 89999999974

Answer: A

Explanation:

Expression : 299996×300004

$$= (300000 - 4) \times (300000 + 4)$$

$$= (300000)^2 - (4)^2$$

$$= 90000000000 - 16 = 89999999984$$

⇒ Ans - (A)

Question 28

The mean of marks secured by 35 students in division A of class X is 65, 45 students of division B is 61 and that of 70 students of division C is 59. What is the mean of marks of the students of three divisions of Class X?

- A 60.3
- B 59.6
- C 61
- D 62.4

Answer: C

Explanation:

Total marks secured by 35 students in division A = $35 \times 65 = 2275$

Total marks secured by 45 students in division B = $45 \times 61 = 2745$

Total marks secured by 70 students in division C = $70 \times 59 = 4130$

=> Mean of marks of the students of three divisions of Class X = $\frac{(2275+2745+4130)}{(35+45+70)}$

$$= \frac{9150}{150} = 61$$

=> Ans - (C)

Question 29

If $5(4 - x) - 4 > 5x - 2 > 2x - 6$, then the value of x is

- A -2
- B 2
- C -1
- D 3

Answer: C

Explanation:

Expression 1: $5(4 - x) - 4 > 5x - 2$

$$\Rightarrow 20 - 5x - 4 > 5x - 2$$

$$\Rightarrow 5x + 5x < 16 + 2$$

$$\Rightarrow x < \frac{18}{10} \text{ -----(i)}$$

Expression 2 : $5x - 2 > 2x - 6$

$$\Rightarrow 5x - 2x > 2 - 6$$

$$\Rightarrow x > \frac{-4}{3} \text{ -----(ii)}$$

Combining inequalities (i) and (ii), we get : $\frac{-4}{3} < x < \frac{18}{10}$

Thus, x can take values = -1, 0, 1

=> Ans - (C)

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Question 30

Slope of the side DA of the rectangle ABCD is $\frac{5}{3}$. What is the slope of the side AB?

- A $\frac{3}{5}$
- B $-\frac{5}{3}$
- C $\frac{5}{3}$
- D $-\frac{3}{5}$

Answer: D

Explanation:

Sides DA and AB are perpendicular to each other and product of slopes of two perpendicular lines = -1

Let slope of side AB = m and slope of side DA = $\frac{5}{3}$

$$\Rightarrow m \times \frac{5}{3} = -1$$

$$\Rightarrow m = -\frac{3}{5}$$

\Rightarrow Ans - (D)

Question 31

If $\cos -225^\circ = x$, then the value of x is

- A $\frac{1}{2}$
- B $\frac{\sqrt{3}}{2}$
- C $-\frac{2}{\sqrt{3}}$
- D $-\frac{1}{\sqrt{2}}$

Answer: D

Explanation:

Expression : $\cos(-225^\circ)$

Since, $\cos(-\theta) = \cos\theta$

$$= \cos(225^\circ) = \cos(180^\circ + 45^\circ)$$

$$= -\cos(45^\circ) = -\frac{1}{\sqrt{2}}$$

Question 32

If $2x - 3 = 3x - 5$, then the numerical value of $(x - 3)^2$ is

- A 5
- B 1
- C -1
- D -5

Answer: B

Explanation:

$$\text{Expression : } 2x - 3 = 3x - 5$$

$$\Rightarrow 3x - 2x = -3 + 5$$

$$\Rightarrow x = 2$$

$$\therefore (x - 1)^2 = (2 - 1)^2 = 1$$

$$\Rightarrow \text{Ans - (B)}$$

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Question 33

$\triangle ABC$ is right angled at B. BD is the altitude. AD is 18 cm and DC is 50 cm. Find length of BD?

A 30 cm

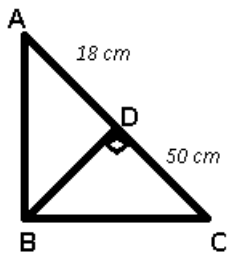
B 25 cm

C 35 cm

D 15 cm

Answer: A

Explanation:



Let $BD = x$ cm

Using, $(BD)^2 = (AD) \times (CD)$

$$\Rightarrow (x)^2 = 18 \times 50 = 900$$

$$\Rightarrow x = \sqrt{900} = 30 \text{ cm}$$

\Rightarrow Ans - (A)

Question 34

There is 40% increase in an amount in 10 years at simple interest. What will be the compound interest of Rs 25000 after 2 years at the same rate?

A Rs 4080

B Rs 5100

C Rs 3060

D Rs 2040

Answer: D

Explanation:

Let the principal = Rs. $100x$

\Rightarrow Amount after simple interest = Rs. $140x$

\Rightarrow Simple interest = $140x - 100x = \text{Rs. } 40x$

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

$$\Rightarrow 40x = \frac{100x \times 10 \times R}{100}$$

$$\Rightarrow R = \frac{40}{10} = 4\%$$

$$\text{Compound interest of Rs. 25,000 for 2 years} = P[(1 + \frac{R}{100})^T - 1]$$

$$= 25,000[(1 + \frac{4}{100})^2 - 1]$$

$$= 25,000[(\frac{26}{25})^2 - 1]$$

$$= 25,000 \times \frac{676 - 625}{625} = 25,000 \times \frac{51}{625}$$

$$= 40 \times 51 = \text{Rs. } 2,040$$

Question 35

If $\frac{\sqrt{1+\cot^2 A}}{\cot A} = x$, then the value of x is

A $\sin A$

B $\operatorname{cosec} A$

C $\sec A$

D $\cos A$

Answer: C

Explanation:

$$\text{Expression: } \frac{\sqrt{1+\cot^2 A}}{\cot A}$$

$$= \sqrt{1 + \frac{\cos^2 A}{\sin^2 A}} \times \frac{1}{\cot A}$$

$$= \sqrt{\frac{\sin^2 A + \cos^2 A}{\sin^2 A}} \times \frac{1}{\cot A}$$

$$= \sqrt{\frac{1}{\sin^2 A}} \times \frac{1}{\cot A}$$

$$= \frac{1}{\sin A} \times \frac{\sin A}{\cos A}$$

$$= \frac{1}{\cos A} = \sec A$$

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Question 36

What is the value of $(\operatorname{cosec} A - \cot A) / (\sec A + \tan A)$?

A $(\sec A + \tan A) / (\operatorname{cosec} A - \cot A)$

B $\frac{\sqrt{(\sec A - \tan A)}}{(\operatorname{cosec} A + \cot A)}$

C $(\sec A - \tan A) / (\operatorname{cosec} A + \cot A)$

D $\frac{\sqrt{(\sec A + \tan A)}}{(\operatorname{cosec} A - \cot A)}$

Answer: C

Explanation:

Expression : $(\operatorname{cosec}A - \cot A) / (\sec A + \tan A)$

Multiplying numerator and denominator by $(\sec A - \tan A)$

$$= \frac{\operatorname{cosec}A - \cot A}{\sec A + \tan A} \times \frac{\sec A - \tan A}{\sec A - \tan A}$$

$$= \frac{(\operatorname{cosec}A - \cot A) \times (\sec A - \tan A)}{\sec^2 A - \tan^2 A}$$

Now, $(\sec^2 A - \tan^2 A) = (\operatorname{cosec}^2 A - \cot^2 A) = 1$

$$= \frac{(\operatorname{cosec}A - \cot A) \times (\sec A - \tan A)}{\operatorname{cosec}^2 A - \cot^2 A}$$

$$= \frac{(\operatorname{cosec}A - \cot A) \times (\sec A - \tan A)}{(\operatorname{cosec}A - \cot A) \times (\operatorname{cosec}A + \cot A)}$$

$$= \frac{\sec A - \tan A}{\operatorname{cosec}A + \cot A}$$

Question 37

An engineering student has to secure 45% marks to pass. He gets 54 and fails by 36 marks. Find the maximum marks.

- A 200 marks
- B 225 marks
- C 250 marks
- D 275 marks

Answer: A

Explanation:

Let maximum marks = $100x$

$$\Rightarrow \text{Passing marks} = \frac{45}{100} \times 100x = 45x$$

According to ques,

$$\Rightarrow 45x - 36 = 54$$

$$\Rightarrow 45x = 54 + 36 = 90$$

$$\Rightarrow x = \frac{90}{45} = 2$$

\therefore Maximum marks = $100 \times 2 = 200$

\Rightarrow Ans - (A)

Question 38

When a discount of 25% is given on a box of popcorn, the profit is 25%. If the discount is 10%, then the profit is

- A 35 percent
- B 50 percent
- C 20 percent
- D 65 percent

Answer: B

Explanation:

Let marked price = Rs. $100x$

$$\text{After 25% discount, selling price} = \frac{75}{100} \times 100x = \text{Rs. } 75x$$

Let Cost price = Rs. y

$$\Rightarrow \text{Profit \%} = \frac{75x - y}{y} \times 100 = 25$$

$$\Rightarrow \frac{75x - y}{y} = \frac{25}{100} = \frac{1}{4}$$

$$\Rightarrow 300x - 4y = y$$

$$\Rightarrow y = \frac{300x}{5} = \text{Rs. } 60x$$

If, discount = 10%, \Rightarrow Selling price = $\frac{90}{100} \times 100x = \text{Rs. } 90x$

$$\therefore \text{Profit \%} = \frac{90x - 60x}{60x} \times 100$$

$$= \frac{1}{2} \times 100 = 50\%$$

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Question 39

A cylindrical vessel of height 9 cm and radius 7 cm is completely filled with sand. When this sand is poured out it forms a right circular cone of radius 10 cm what will be the height of this cone?

- A 26.46 cm
- B 39.69 cm
- C 13.23 cm
- D 52.92 cm

Answer: C

Explanation:

Let height of cone = h cm and radius, $r = 10$ cm

Height of cylinder, $H = 9$ cm and Radius, $R = 7$ cm

Volume of cylinder = Volume of cone

$$\Rightarrow \pi R^2 H = \frac{1}{3} \pi r^2 h$$

$$\Rightarrow (7)^2 \times 9 = \frac{1}{3} \times (10)^2 \times h$$

$$\Rightarrow h = \frac{49 \times 9 \times 3}{100} = \frac{1323}{100}$$

$$\Rightarrow h = 13.23 \text{ cm}$$

Question 40

Munni can bake 70 cakes in 7 hours, Munni and Guddi together can bake 90 cakes in 6 hours. How many cakes Guddi can bake in 10 hours?

- A 100
- B 50
- C 125
- D 25

Answer: B

Explanation:

Cakes baked by Munni in 1 hour = $\frac{70}{7} = 10$

Cakes baked by Munni and Guddi together in 1 hour = $\frac{90}{6} = 15$

=> Cakes baked by Guddi in 1 hour = $15 - 10 = 5$

∴ Cakes baked by Guddi in 10 hours = $10 \times 5 = 50$

=> Ans - (B)

Question 41

In a rectangle

- A Diagonals are perpendicular to each other
- B Diagonals are not equal
- C Diagonals bisect each other
- D Diagonals bisect opposite angles

Answer: C

Explanation:

In a rectangle, diagonals are of equal length. They bisect each other but not at 90 degree.

Thus, only third option is correct about properties of rectangle

=> Ans - (C)

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Question 42

The bus fare between two cities is increased in the ratio 25:29. Find the increase in the fare, if the original fare is Rs. 625

- A Rs 725
- B Rs 145
- C Rs 290
- D Rs 100

Answer: D

Explanation:

Let original fare = Rs. $25x$

=> New fare = Rs. $29x$

Also, original fare = $625 = 25x$

=> $x = \frac{625}{25} = 25$

∴ Increase in fare = $29x - 25x = 4x$

= $4 \times 25 = Rs.100$

Question 43

If $x - y = -6$ and $x + y = 16$, then $x^2 - y^2$ is?

- A 96
- B -96
- C 22

D -22

Answer: B

Explanation:

Equation (i) : $x - y = -6$

Equation (ii) : $x + y = 16$

Adding above equations, we get : $2x = -6 + 16 = 10$

$$\Rightarrow x = \frac{10}{2} = 5$$

Substituting value of x in equation (ii), $\Rightarrow y = 16 - 5 = 11$

$$\therefore x^2 - y^2 = (5)^2 - (11)^2$$

$$= 25 - 121 = -96$$

Question 44

Three consecutive natural numbers are such that the square of the greatest is greater than the product of the other two by 16. The smallest of these numbers is

A 5

B 6

C 7

D 4

Answer: D

Explanation:

Let the three consecutive natural numbers be $(x - 1), (x), (x + 1)$ where $x \geq 2$

Acc. to ques, $\Rightarrow (x + 1)^2 - [x \times (x - 1)] = 16$

$$\Rightarrow (x^2 + 2x + 1) - (x^2 - x) = 16$$

$$\Rightarrow 3x + 1 = 16$$

$$\Rightarrow x = \frac{15}{3} = 5$$

\therefore Smallest number = $5 - 1 = 4$

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Question 45

Daily local train ticket costs Rs 60 and Monthly Pass costs Rs 1566. If I buy the Monthly Pass and travel for 29 days in a month than I save?

A 10 percent

B 14 percent

C 15 percent

D 12 percent

Answer: A

Explanation:

Train ticket cost for 1 day = Rs. 60

=> Cost for 29 days = $29 \times 60 = \text{Rs. } 1,740$

Cost of monthly pass = Rs. 1,566

=> Money saved = $1740 - 1566 = \text{Rs. } 174$

\therefore Required % = $\frac{174}{1740} \times 100 = 10\%$

Question 46

A missile travels at 1206 km/h. How many metres does it travel in one second?

- A 355 metres
- B 318 metres
- C 302 metres
- D 335 metres

Answer: D

Explanation:

Speed of missile = 1206 km/hr

=> Speed in m/s = $1206 \times \frac{5}{18}$

= $5 \times 67 = 335 \text{ m/s}$

\therefore In 1 second, it travels 335 metres

=> Ans - (D)

Question 47

Refer the below data table and answer the following Question.

	Quantity of Stock	Average Cost (Rs)
Mobile Phones	61	18000
Cameras	42	11000
TVs	26	47000
Refrigerators	96	49000
ACs	84	23000

What is the value of the total stock (in lakh rupees)?

- A 94.18
- B 941.8
- C 148
- D 309

Answer: A

Explanation:

Total cost of mobiles = $61 \times 18000 = \text{Rs. } 10,98,000$

Total cost of Cameras = $42 \times 11000 = \text{Rs. } 4,62,000$

Total cost of TVs = $26 \times 47000 = \text{Rs. } 12,22,000$

Total cost of Refrigerator = $96 \times 49000 = \text{Rs. } 47,04,000$

Total cost of AC = $84 \times 23000 = \text{Rs. } 19,32,000$

\therefore Total cost = $10,98,000 + 4,62,000 + 12,22,000 + 47,04,000 + 19,32,000 = \text{Rs. } 94,18,000$

Total cost in lakhs = Rs 94.18 lakhs

=> Ans - (A)

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Question 48

Refer the below data table and answer the following Question.

Year	Ratio : Import / Export
2011	0.8
2012	0.7
2013	0.8
2014	1.4
2015	0.9

If the imports in 2012 was Rs. 600 crores and the total exports in the years 2012 and 2013 together was Rs. 2800 crores, then the imports in 2013 was?

- A 1554
- B 1943
- C 857
- D 2429

Answer: A

Explanation:

Imports in 2012 = Rs. 600 crores

Let Exports in 2012 = Rs. y crores

Ratio of imports and exports in 2012 = 0.7

$$\Rightarrow \frac{600}{y} = 0.7$$

$$\Rightarrow y = \frac{600}{0.7} = 857.14$$

Total exports in the years 2012 and 2013 together = Rs. 2800 crores

=> Exports in 2013 = Rs. (2800 - 857.14) crores = Rs. 1942.86 crores

Let imports in 2013 = Rs. x crores

Ratio of imports and exports in 2013 = $\frac{x}{1942.86} = 0.8$

$$\Rightarrow x = 1942.86 \times 0.8 = 1554.288 \approx 1554$$

∴ Imports in 2013 was Rs. 1554 crores

=> Ans - (A)

Question 49

Refer the below data table and answer the following Question.

Measured on Birthday	Height of the child (in cms)
4	100
5	110
6	120
7	125
8	135
9	140
10	150
11	155
12	165
13	175
14	185
15	190
16	200

What was the increase in the height of the child from the 8th Birthday to the 16th Birthday?

- A 70 cms
- B 75 cms
- C 60 cms
- D 65 cms

Answer: D

Explanation:

Height on 8th birthday = 135 cm

Height on 16th birthday = 200 cm

Increase in height = $200 - 135 = 65$ cm

=> Ans - (D)

Question 50

Refer the below data table and answer the following Question

Deep Sleep	15
Dreaming	25
Light Sleep	15
Extremely Light Sleep	30
Awake	15

Between 10pm to 6am, a fitness band records the following data. How long was the user Dreaming or was in Extremely light sleep ?

- A 4.4 hours
- B 3 hours
- C 2.9 hours
- D 4 hours

Answer: A

Explanation:

Data is recorded from 10pm to 6am i.e, 8 hours

Time in which user was Dreaming and was in Extremely light sleep = $\frac{25}{100} \times 8 + \frac{30}{100} \times 8 = 2 + 2.4 = 4.4$ hours

SSC CGL Previous Papers (DOWNLOAD PDF)

Reasoning

Instructions

For the following questions answer them individually

Question 51

Select the related word/letters/number from the given alternatives.

Sparrow : Chirp :: Cat : ?

- A Hiss
- B Mew
- C Caw
- D Grunt

Answer: B

Explanation:

Expression = Sparrow : Chirp :: Cat : ?

The second is the sounds made by the first. Sparrow chirps, similarly a cat mew.

=> Ans - (B)

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Question 52

Select the related word/letters/number from the given alternatives.

IJKL: PQRS :: EFGH : ?

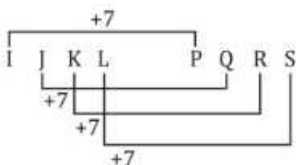
- A LONM
- B LOPQ
- C LMNO
- D LMOR

Answer: C

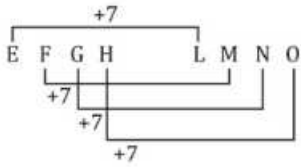
Explanation:

Expression = IJKL: PQRS :: EFGH : ?

The pattern followed is :



Similarly, for EFGH :



=> Ans - (C)

Question 53

Select the related word/letters/number from the given alternatives.

RST:QPO:: MNO:: ?

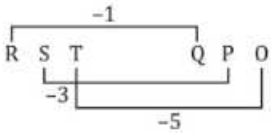
- A YZA
- B GHI
- C BAC
- D LKJ

Answer: D

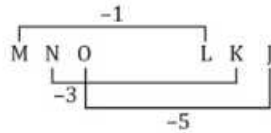
Explanation:

Expression = RST:QPO:: MNO:: ?

The pattern followed is :



Similarly, for MNO :



=> Ans - (D)

Question 54

Select the related word/letters/number from the given alternatives.

6 : 48 :: 8 : ?

- A 65
- B 80
- C 70
- D 85

Answer: B

Explanation:

Expression = 6 : 48 :: 8 : ?

The pattern followed is = $n : n(n + 2)$

Eg :- $6 : 6 \times 8 = 6 : 48$

Similarly, $8 \times (8 + 2) = 8 \times 10 = 80$

=> Ans - (B)

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Question 55

Select the odd word/letters/number/number pair from the given alternatives.

- A White
- B Yellow
- C Violet
- D Red

Answer: A

Explanation:

Violet, yellow and red are colours of the rainbow, hence white is the odd one out.

=> Ans - (A)

Question 56

Select the odd word/letters/number/number pair from the given alternatives.

- A CEF
- B GIJ
- C LNO
- D STW

Answer: D

Explanation:

(A) : C (+2 letters) = E (+1 letter) = F

(B) : G (+2 letters) = I (+1 letter) = J

(C) : L (+2 letters) = N (+1 letter) = O

(D) : S (+1 letter) = T (+3 letter) = W

=> Ans - (D)

Question 57

Select the odd word/letters/number/number pair from the given alternatives.

- A 21
- B 27
- C 28
- D 30

Answer: C

Explanation:

Except 28, other three are divisible by 3, hence it is the odd one out.

=> Ans - (C)

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Question 58

Select the odd word/letters/number/number pair from the given alternatives.

- A 10
- B 14
- C 28
- D 25

Answer: D

Explanation:

Among the given numbers, only 25 is odd, hence it is the odd one out.

=> Ans - (D)

Question 59

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. L, Q, X, G, R, ?

- A G
- B F
- C E
- D S

Answer: C

Explanation:

The pattern followed is :

L (+5 letters) = Q

Q (+7 letters) = X

X (+9 letters) = G

G (+11 letters) = R

R (+13 letters) = E

=> Ans - (C)

Question 60

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. ELFA, GLHA, ILJA, ?, MLNA

- A OLPA
- B KLMA
- C LLMA
- D KLLA

Answer: D

Explanation:

Expression : ELFA, GLHA, ILJA, ?, MLNA

The pattern followed in each letter of the terms is :

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

2nd letter : This is 'L' in each term

3rd letter : F (+2 letters) = H (+2 letters) = J (+2 letters) = L (+2 letters) = N

4th letter : This is 'A' in each term

Thus, missing term = **KLLA**

=> Ans - (D)

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Question 61

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.
15, 26, 48, 81, 125, ?

- A 160
- B 150
- C 170
- D 180

Answer: D

Explanation:

Multiples of 11 are added.

$$15 + 11 = 26$$

$$26 + 22 = 48$$

$$48 + 33 = 81$$

$$81 + 44 = 125$$

$$125 + 55 = \mathbf{180}$$

=> Ans - (D)

Question 62

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.
9, 17, 44, 108, 233, ?

- A 449
- B 442
- C 439
- D 469

Answer: A

Explanation:

Cubes of natural numbers are added.

$$9 + 2^3 = 17$$

$$17 + 3^3 = 44$$

$$44 + 4^3 = 108$$

$$108 + 5^3 = 233$$

$$233 + 6^3 = 449$$

=> Ans - (A)

Question 63

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

Statements:

(I) Library is a place where one may find any answer to his/her question.

(II) Books in any form whether physical or electronic are advantageous for resolving any kind of query.

Conclusion:

(I) Every question has an answer and one can find it in a book.

(II) Books give all related information pertaining to the title they have.

- A Only conclusion II follows
- B Conclusion I and II both follow
- C Neither I nor II follow
- D Only conclusion I follows

Answer: B

Explanation:

Library is a place where one may find any answer to his/her question so every question has an answer and one can find it in any book. Hence Conclusion I is true.

Books are titled with respect to the information they contain. Hence Conclusion II is true.

∴ Both Conclusion I and II follows the given statements

Hence, the correct answer is Option B

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Question 64

Six girls are sitting in a row facing north. Garima is between Reena and Amita, Amita is on the immediate left of Pooja and Arpita is to the left of Rekha. Who is at the extreme left end?

- A Reena
- B Arpita
- C Amita
- D Cannot be determined

Answer: D

Explanation:

Garima is between Reena and Amita, Amita is on the immediate left of Pooja.

=> Garima is sitting to the immediate right of Reena, and Amita is second to the right of Reena.

Also, Arpita is to the left of Rekha.

=> Arpita and Rekha can be either to the left of Reena or to the right of Pooja.

Thus, two arrangements are possible, Arrangement 1 :

Arpita	Rekha	Reena	Garima	Amita	Pooja
--------	-------	-------	--------	-------	-------

Arrangement 2 :

Reena	Garima	Amita	Pooja	Arpita	Rekha
-------	--------	-------	-------	--------	-------

Thus, we cannot determine the person sitting at extreme left end.

=> Ans - (D)

Question 65

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

- i. Motives
- ii. Meaning
- iii. Medieval
- iv. Maritime
- v. Manufacture

- A iii, i, ii, v, iv
- B i, iii, iv, v, ii
- C iii, ii, i, iv, v
- D v, iv, ii, iii, i

Answer: D

Explanation:

As per the order of dictionary :

= Manufacture -> Maritime -> Meaning -> Medieval -> Motives

≡ v, iv, ii, iii, i

=> Ans - (D)

Question 66

In a certain code language, "LIAR" is written as "5782" and "RANGE" is written as "28641". How is "ARRANGE" written in that code language?

- A 8288641
- B 8222641
- C 8228641
- D 8228614

Answer: C

Explanation:

The codes for each letter is given :

- A -> 8
- R -> 2
- A -> 8
- N -> 6
- G -> 4
- E -> 1

Thus, ARRANGE : **8228641**

=> Ans - (C)

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Question 67

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

14	20	16
2	2	?
3	6	5
4	4	3

- A 1
- B 2
- C 3
- D 4

Answer: B

Explanation:

In each column, for the numbers a, b, c and d , pattern is : $a = b \times (c + d)$

$$\text{Eg :- } 2 \times (3 + 4) = 2 \times 7 = 14$$

$$2 \times (6 + 4) = 2 \times 10 = 20$$

$$\text{Similarly, } x \times (5 + 3) = 16$$

$$\Rightarrow x = \frac{16}{8} = 2$$

\Rightarrow Ans - (B)

Question 68

If "-" stands for division, "+" stands for multiplication, "÷" stands for subtraction and "x" stands for addition, which of the following equations is correct?

- A $8 + 6 - 3 \div 4 \times 6 = 16$
- B $16 - 4 + 4 \div 2 \times 6 = 20$
- C $12 + 3 - 3 \div 5 \times 2 = 4$
- D $14 - 2 + 6 \div 5 \times 2 = 32$

Answer: B

Explanation:

If "-" stands for division, "+" stands for multiplication, "÷" stands for subtraction and "x" stands for addition,

$$\text{(A): } 8 + 6 - 3 \div 4 \times 6 = 16$$

$$\equiv 8 \times 6 \div 3 - 4 + 6 = 16$$

$$\text{L.H.S.} = \frac{48}{3} + 2 = 16 + 2 = 18 \neq \text{R.H.S.}$$

$$\text{(B): } 16 - 4 + 4 \div 2 \times 6 = 20$$

$$\equiv 16 \div 4 \times 4 - 2 + 6 = 20$$

$$\text{L.H.S.} = (4 \times 4) + 4 = 16 + 4 = 20 = \text{R.H.S.}$$

\Rightarrow Ans - (B)

Question 69

In the following question, which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?
gh_i_hi_ig_ii_ _

- A igihii
- B ighiii
- C igihhi
- D igihih

Answer: A

Explanation:

The pattern followed is that the term 'gh' is repeated and i's in increasing order are appended at the end.

= ghii ghiii ghiiii

=> Ans - (A)

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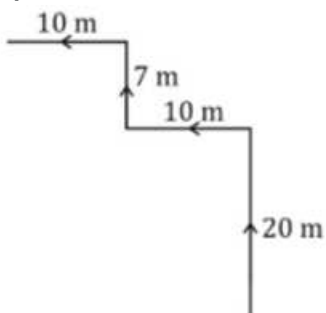
Question 70

Aryan is facing west. He turns right and walks 20 m, then he turns left and walks 10 m. From there he walks 7 m to the north and then 10 m towards the west. In which direction is he from his original position?

- A North-east
- B North-west
- C South-east
- D South-west

Answer: B

Explanation:



Aryan is facing west. He turns right and walks 20 m towards north, then he turns left and walks 10 m westwards. From there he turns left and walks 7 m to the north and finally 10 m towards the west.

Thus, he is north-west of his original position.

=> Ans - (B)

Question 71

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, 'R' can be represented by 11, 34, etc., and 'E' can be represented by 76, 98, etc. Similarly, you have to identify the set for the word 'COVER'.

Matrix - I

	0	1	2	3	4
0	O	A	R	C	O
1	D	R	O	A	C
2	R	C	A	D	O
3	A	D	C	O	R
4	C	O	D	R	A

Matrix - II

	5	6	7	8	9
5	P	T	B	V	E
6	V	P	E	B	T
7	T	E	V	P	B
8	E	B	P	T	V
9	B	V	T	E	P

A 21, 24, 96, 66, 02

B 40, 12, 95, 85, 43

C 03, 33, 89, 59, 11

D 01, 33, 65, 76, 34

Answer: C

Explanation:

(A) : 21, 24, 96, 66, 02 = COVPR

(B) : 40, 12, 95, 85, 43 = COBER

(C) : 03, 33, 89, 59, 11 = **COVER**

(D) : 01, 33, 65, 76, 34 = AOVER

=> Ans - (C)

Question 72

Introducing a man, a woman says, "His son's mother is the only daughter of my mother". How is the man related to the woman?

A Nephew

B Maternal uncle

C Husband

D Father

Answer: C

Explanation:

Only daughter of the woman's mother = woman herself

Now, the man's son's mother = man's wife

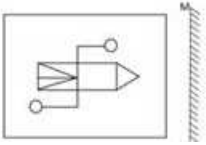
Thus, the man is her husband.

=> Ans - (C)

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Question 73

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

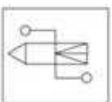
Answer: C

Explanation:

If a mirror is placed on the line MN,

The facing of the figure to the left and right direction changes to opposite direction in mirror image(right facing changes to left and vice versa). There won't be change in shape of the figure in the mirror image.

∴ The mirror image of the given figure is



Hence, the correct answer is Option C

Question 74

Identify the diagram that best represents the relationship among the given classes. Environment, Nitrogen, Oxygen, Weather

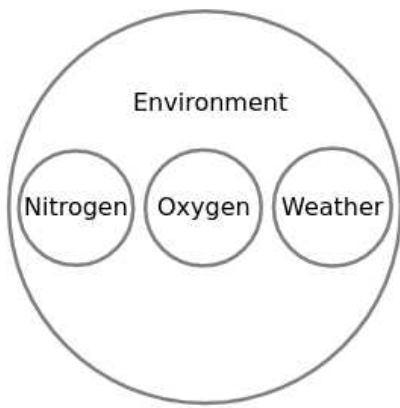
- A
- B
- C
- D

Answer: A

Explanation:

Nitrogen, Oxygen, Weather are different entities which are part of environment

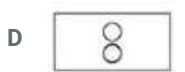
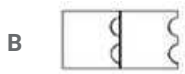
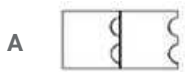
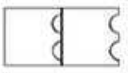
∴ The diagram that best represents the relationship between them is



Hence, the correct answer is Option A

Question 75

A piece of paper is folded and punched as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.



Answer: D

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English

Instructions

For the following questions answer them individually

Question 76

In the following question, a sentence has been given in Direct/Indirect speech. Out of the four alternatives suggested, select the one, which best express the same sentence in Indirect/Direct speech.

Rupa said to the driver, "Can you take me to the doctor now?"

- A Rupa asked the driver if he could take her to the doctor then.
- B Rupa asked the driver that if he could take her to the doctor than.
- C Rupa asked the driver that if he would take her to the doctor at once.
- D Rupa asked the driver that if he can take her to the doctor than at once.

Answer: A

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Question 77

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'.

"If I can see you(A)/I am sure you would(B)/be looking beautiful,"Naina said.(C)/No error(D)

A A

B B

C C

D D

Answer: A

Question 78

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.

He is now very old, yet grandfather still is thehead of my extended family.

A absolute

B complete

C overall

D undisputed

Answer: D

Question 79

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

A One should ignore those who keep harassing them

B To say something wrong to a person who has always been kind to you

C Scolding a thick skinned person will cause no improvement

D To be pursuing a misguided line of course of action

Answer: D

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Question 80

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

A To solve a problem one has to go back to the root cause

- B An inventive person will find fresh ways to solve a problem
- C An idea has been unsuccessful and that a new one must be devised
- D An artist is always happy if he gets a chance to go back to painting

Answer: C

Question 81

Select the word with the correct spelling.

- A bulfrog
- B assemble
- C paraket
- D colandeer

Answer: B

Question 82

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase. to pilfer or steal (something, especially an item of small value) in a casual way.

- A to loot
- B to filch
- C to rip off
- D to plunder

Answer: B

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Question 83

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.

At the samethe bell struck and school was dismissed.

- A occasion
- B jiffy
- C moment
- D period

Answer: C

Question 84

Rearrange the parts of the sentence in correct order.

This means that for

P-making a significant dent

Q-have to grow at a faster rate

R-in poverty, rural incomes

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

Answer: A

Question 85

Rearrange the parts of the sentence in correct order.

To have succumbed to their
P-blackmail was not an instance of
Q-making pragmatic political
R-concessions; it was one of capitulation

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

Answer: B

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Question 86

Select the antonym of conception

- A clue
- B cognition
- C fact
- D notion

Answer: C

Question 87

Improve the bracketed part of the sentence.

People in some rural areas don't get water to drink, (besides) many people in urban areas have water even for their pools.

- A and
- B whereas
- C where
- D no improvement

Answer: B

Question 88

Improve the bracketed part of the sentence.

Ajay told the manager that he would not mind (standing and eat) the lunch.

- A standing and eating
- B stand and eating
- C to stand and eat
- D no improvement

Answer: A

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Question 89

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'.

I've been trying(A)/to catch you as(B)/ you left college.(C) No error(D)

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

Answer: B

Question 90

Select the word with the correct spelling.

- A reverent
- B tumberils
- C grambled
- D sitation

Answer: A

Question 91

Select the synonym of to reiterate

- A to hark
- B to drawl
- C to halt
- D to recur

Answer: D

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Question 92

Select the synonym of hypnotist

- A rookie
- B novice
- C conjurer
- D amateur

Answer: C

Question 93

Select the antonym of to expunge

- A to gut
- B to omit
- C to zap
- D to insert

Answer: D

Question 94

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase. An achievement or something desired fail to be attained by someone

- A to elude
- B to eschew
- C to shirk
- D to devoid

Answer: A

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Question 95

In the following question, a sentence has been given in Active/Passive voice. Out of four alternatives suggested, select the one, which best expresses the same sentence in Passive/Active voice.

The flood destroyed the whole town.

- A The whole town was destroyed by the flood.
- B The whole town had been destroyed by the flood.
- C The whole town has been destroyed by the flood.
- D The whole town has had been destroyed by the flood.

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.

.....(1).....some respects, this is unsurprising. Many of these laws do not have an(2).....political flavour. The rule against admitting(3)..... evidence, for instance, is a result of simple good sense and a keen awareness of human(4)....., independent of the relationship between the ruler and the ruled. The same(5).....for the laws of property and contract.

Question 96

.....some respects

- A Into
- B About
- C In
- D On

Answer: C

Question 97

Many of these laws do not have anpolitical flavour.

- A overtly
- B adequately
- C averagely
- D abundantly

Answer: A

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Question 98

The rule against admittingevidence

- A gossip
- B rumour
- C scandal
- D hearsay

Answer: D

Question 99

a keen awareness of human,

- A biology
- B nature

C personality

D quality

Answer: B

Question 100

The samefor the laws of property and contract.

A comes

B goes

C pushes

D pulls

Answer: B

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