



SSC CHSL 7 Jan 2017 Evening Shift

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Reasoning

Instructions

For the following questions answer them individually

Question 1

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

The Time Machine: H. G. Wells :: Julius Caesar : ?

- A Rabindra Nath Tagore
- B William Shakespeare
- C Charles Dickens
- D Leo Tolstoy

Answer: B

Explanation:

The Time Machine is written by H. G. Wells, similarly Julius Caesar was written by *William Shakespeare*.

=> Ans - (B)

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Question 2

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

SAP : WET :: ? : XVI

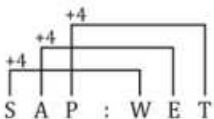
- A TRE
- B SQR
- C SRQ
- D PNR

Answer: A

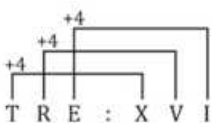
Explanation:

Expression = SAP : WET :: ? : XVI

The pattern followed is :



Similarly, for XVI :



=> Ans - (A)

Question 3

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

LK : OP :: ? : UV

- A ML
- B TU
- C NQ
- D FE

Answer: D

Explanation:

Expression = LK : OP :: ? : UV

Alphabets at the corresponding position from the reverse end are written.

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
 ↓ ↓ ↓ ... ↓ ↓ ↓
 Z Y X W V U T S R Q P O N M L K J I H G F E D C B A

Similarly, FE : UV

=> Ans - (D)

Question 4

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

16 : 50 :: 24 : ?

- A 75
- B 70
- C 74
- D 79

Answer: C

Explanation:

Expression = 16 : 50 :: 24 : ?

The pattern followed is = $x : 3x + 2$

Eg :- $16 : 3 \times 16 + 2 = 16 : 50$

Similarly, $(3 \times 24) + 2 = 72 + 2 = 74$

=> Ans - (C)

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Question 5

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

- A Vishakhapatnam
- B Mumbai
- C Kochi
- D Bhubaneshwar

Answer: D

Explanation:

All except Bhubaneswar are harbours, hence it is the odd one out.

=> Ans - (D)

Question 6

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

A eno

B iqa

C ubu

D olr

Answer: D

Explanation:

Except for 'olr', all words contain 2 vowels, hence it is the odd one out.

=> Ans - (D)

Question 7

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

A 2691

B 9900

C 5632

D 2790

Answer: C

Explanation:

Except for 5632, sum of digits of all other numbers is 18, hence it is the odd one out.

=> Ans - (C)

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Question 8

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

A 308

B 108

C 288

D 240

Answer: A

Explanation:

Except 308, other are divisible by 3, hence 308 is the odd one out.

=> Ans - (A)

Question 9

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

Acute angle, right angle, obtuse angle, ?

- A Exterior angle
- B Reflex angle
- C Straight angle
- D Supplementary angle

Answer: C

Explanation:

Angles in increasing order are given.

= Acute angle -> Right angle -> Obtuse angle -> Straight angle

=> Ans - (C)

Question 10

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

RS, WX, ?, GH

- A BC
- B AB
- C CD
- D EG

Answer: A

Explanation:

Expression : RS, WX, ?, GH

The pattern followed in each letter of the terms is :

1st letter : R (+5 letters) = W (+5 letters) = B (+5 letters) = G

2nd letter : S (+5 letters) = X (+5 letters) = C (+5 letters) = H

Thus, missing term = **BC**

=> Ans - (A)

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Question 11

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

VUT, ONM, GFE, ?

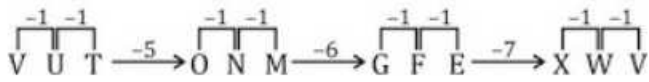
- A XWV
- B WVX
- C XYZ
- D WVU

Answer: A

Explanation:

Expression : VUT, ONM, GFE, ?

The pattern followed is :



Thus, missing term = XWV

=> Ans - (A)

Question 12

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

10, 22, 46, ?

A 90

B 91

C 95

D 94

Answer: D

Explanation:

The pattern followed is :

$$10 \times 2 + 2 = 22$$

$$22 \times 2 + 2 = 46$$

$$46 \times 2 + 2 = 94$$

=> Ans - (D)

Question 13

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.

Statement:

(I) The water pollutants are rising slowly and spoiling the sanctity of water.

(II) Main cause of water pollution is industrialization and lack of sustainable approach towards environment.

Conclusions:

(I) Industries are mixing all the left-over slurries into the water body nearby causing immense pollution.

(II) Future generations are need to be thought about before getting involved in pollution causing activities.

A Only conclusion II follows

B Conclusion I and II both follow

C Neither I nor II follow

D Only conclusion I follows

Answer: D

Explanation:

From the statement II, the main cause for water pollution is industrialization, so it can be concluded that industries are mixing waste materials in to water and causing water pollution. Hence conclusion I follows the given statements.

No information is provided in the statements regarding the conclusion II which may or may not be true. Hence conclusion II do not follow the given statements.

∴ Only conclusion I follows the given statements.

Hence, the correct answer is Option D

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Question 14

Vishu, Pooja, Vishakha, Rani and Ram are sitting in a line. Pooja is third to the extreme right end. Vishu is second to the left of Pooja. Vishakha is to the right of Pooja. Rani is third to the right of Ram, who is the immediate neighbour of Vishu. Who is sitting in the middle?

- A Pooja
- B Ram
- C Visakha
- D Rani

Answer: A

Explanation:

Pooja is third to the extreme right end. Vishu is second to the left of Pooja.

=> Vishu sits at extreme left end.

Vishakha is to the right of Pooja. Rani is third to the right of Ram, who is the immediate neighbour of Vishu.

=> Rani sits at extreme right end, and Ram sits between Vishu and Pooja.

Thus, arrangement :

Vishu	Ram	Pooja	Vishakha	Rani
-------	-----	-------	----------	------

∴ **Pooja** is sitting in the middle.

=> Ans - (A)

Question 15

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

- i. Manufacture
- ii. Manualism
- iii. Manumission
- iv. Manual

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

Answer: A

Explanation:

As per the order of dictionary :

= Manual -> Manualism -> Manufacture -> Manumission

≡ iv, ii, i, iii

=> Ans - (A)

Question 16

In a certain code language, "TOAST" is written as "56345" and "TRAIN" is written as "59310". How is "TORN" written in that code language?

- A 5634
- B 5609
- C 5690
- D 5663

Answer: C

Explanation:

The codes for each letter is given :

- T -> 5
- O -> 6
- R -> 9
- N -> 0

Thus, TORN : **5690**

=> Ans - (C)

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Question 17

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

25	144	60
81	225	135
49	289	?

- A 119
- B 120
- C 170
- D 190

Answer: A

Explanation:

The pattern followed is that in each row the number at the end is the square root of the product of first two.

$$\text{Eg. :- } \sqrt{25 \times 144} = \sqrt{5 \times 5 \times 12 \times 12} = 5 \times 12 = 60$$

$$\sqrt{81 \times 225} = \sqrt{9 \times 9 \times 15 \times 15} = 9 \times 15 = 225$$

$$\text{Similarly, } \sqrt{49 \times 289} = \sqrt{7 \times 7 \times 17 \times 17} = 7 \times 17 = 119$$

=> Ans - (A)

Question 18

If "-" means "plus", "x" means "divided by", "÷" means "multiply" and "+" means "subtraction", then $25 + 54 \times 6 - 20 \div 10 = ?$

- A 218

B 219

C 216

D 230

Answer: C

Explanation:

Expression : $25 + 54 \times 6 - 20 \div 10 = ?$

$$\equiv 25 - 54 \div 6 + 20 \times 10$$

$$= 25 - \frac{54}{6} + 200$$

$$= 225 - 9 = 216$$

=> Ans - (C)

Question 19

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

c_e_cd_f_de_

A dfecf

B dfcef

C fdcef

D dffcd

Answer: A

Explanation:

The pattern followed is that in groups of 4, the term 'cdef' is repeated.

= cdef cdef cdef

=> Ans - (A)

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Question 20

Arjun is facing east. He walks 10 m in this direction, then turns left and walks for another 10 m, then he turns right to walk 25 m and from there he walks another 10 m towards south. Finally, he walks 50 m to his left. How far is he from his original position?

A 85 m

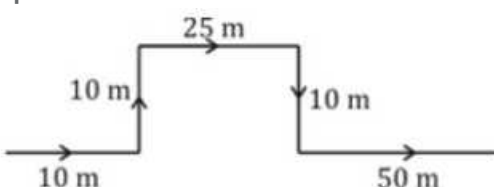
B 80 m

C 75 m

D 90 m

Answer: A

Explanation:



Arjun is facing east. He walks 10 m in this direction, then turns left and walks towards north for another 10 m, then he turns right to walk 25 m east and from there he walks another 10 m towards south. Finally, he walks 50 m to his left towards the east direction.

Thus, distance between his original and final position = $10 + 25 + 50 = 85$ m

=> Ans - (A)

Question 21

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, 'N' can be represented by 23, 00 etc. and 'R' can be represented by 88, 95 etc. Similarly, you have to identify the set for the word 'HIGHLY'.

Matrix - I

	0	1	2	3	4
0	N	D	P	R	B
1	G	E	R	A	R
2	H	R	L	N	E
3	R	C	Y	E	G
4	S	V	E	Y	H

Matrix - II

	5	6	7	8	9
5	S	H	L	H	G
6	D	L	H	G	G
7	E	H	N	I	D
8	Q	S	I	R	A
9	R	I	Y	B	S

A 58, 78, 69, 20, 22, 31

B 76, 96, 68, 43, 66, 43

C 76, 78, 10, 44, 57, 32

D 67, 87, 98, 76, 77, 86

Answer: C

Explanation:

(A) : 58, 78, 69, 20, 22, 31 = HIGHLC

(B) : 76, 96, 68, 43, 66, 43 = HIGYLY

(C) : 76, 78, 10, 44, 57, 32 = **HIGHLY**

(D) : 67, 87, 98, 76, 77, 86 = HIBHNS

=> Ans - (C)

Question 22

Introducing a girl Anjali says, "She is the daughter of the only sister of the son of my mother". How is the girl related to Anjali?

A Cousin

B Daughter

C Sister-in-law

D Niece

Answer: B

Explanation:

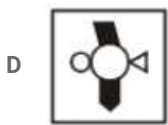
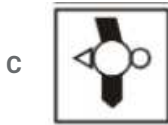
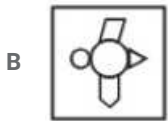
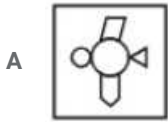
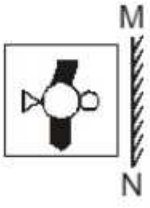
Sister of Anjali's mother's son = Anjali herself

Now, the given girl is the daughter of Anjali.

=> Ans - (B)

Question 23

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



Answer: D

Explanation:

If a mirror is placed on the line MN,

The circle on the right of the figure will be on the left in the mirror image

The triangle on the left of the figure will be on the right in the mirror image

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)

∴ The required mirror image is shown below



Hence, the correct answer is Option D

Question 24

Identify the diagram that best represents the relationship among the given classes.

Liquid, Water, Oil





Answer: A

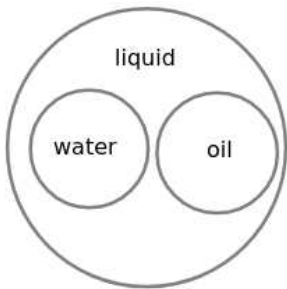
Explanation:

water is a liquid

oil is a liquid

But there is no relation between water and oil

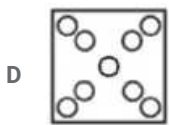
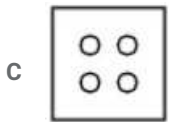
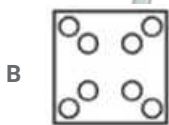
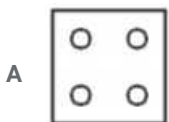
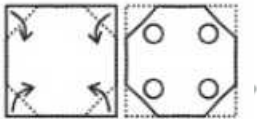
The diagram that best represents the relation between them is shown in the figure below



Hence, the correct answer is Option A

Question 25

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.

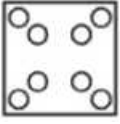


Answer: B

Explanation:

When the paper is punched and opened, one circle each will appear at all corners of the paper.

∴ When the paper is opened it will appear as shown below



Hence, the correct answer is Option B

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General Awareness

Instructions

For the following questions answer them individually

Question 26

Buddhist Monuments at Sanchi is in _____.

- A Karnataka
- B Madhya Pradesh
- C Maharashtra
- D Rajasthan

Answer: B

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Question 27

Which of these Bollywood actresses has not won the National Film Award?

- A Raveena Tandon
- B Vidya Balan
- C Smita Patil
- D Madhuri Dixit

Answer: D

Question 28

Which drug is used as an Anti-Histamine?

- A Fexofenadine
- B Ranitidine
- C Promethazine
- D Ibuprofen

Answer: C

Question 29

Carotene in fruits and vegetables gives it which color?

- A Green
- B Pink
- C Orange
- D Blue

Answer: C

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Question 30

Equus Caballus is the scientific name of _____.

- A Horse
- B Zebra
- C Donkey
- D Buffalo

Answer: A

Question 31

Analgesics _____.

- A relieve acidity
- B relieve pain
- C relieve itching
- D relieve bloating

Answer: B

Question 32

Atomic number of which of the following elements is greater than that of Calcium?

- A Chlorine
- B Argon
- C Sulphur
- D Scandium

Answer: D

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Question 33

Garba is a folk dance of _____.

- A Mizoram
- B Puducherry
- C Gujarat
- D Rajasthan

Answer: C

Question 34

A ceramic pottery unit hires 8 craftsmen by paying each of them Rs 900 per day. The 9th craftsman demands Rs 950 per day. If this craftsman is hired then all other craftsmen must be paid Rs 950. The marginal resource (labour) cost of the 9th craftsman is _____.

- A Rs 1530
- B Rs 1050
- C Rs 50
- D Rs 1350

Answer: D

Explanation:

Resource(Labour) cost for 8 craftsmen before 9th craftsmen is hired = $900 \times 8 = 7200$

Resource(Labour) cost after 9th craftsmen is hired = $950 \times 9 = 8550$

The marginal resource(labour) cost of the 9th craftsmen = $8550 - 7200 = 1350$

Question 35

In a period when an economy is facing price rise, and along with that there is slowing down of economy activities, this is case of _____.

- A Deflation
- B Stagflation
- C Recession
- D Depression

Answer: B

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Question 36

Human Beings belong to which category of the ecosystem?

- A Omnivores
- B Carnivores
- C Herbivores
- D Zooplankton

Answer: A

Question 37

Which Indian State has the highest GDP?

- A Gujarat
- B Maharashtra
- C Karnataka
- D Andhra Pradesh

Answer: B

Question 38

What is the capital of Uttarakhand?

- A Almora
- B Pithoragarh
- C Chamoli
- D Dehradun

Answer: D

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Question 39

The outermost layer of Earth is called _____.

- A Sphere
- B Crust
- C Mantle
- D Core

Answer: B

Question 40

Which Buddhist Council was held soon after the death of Gautam Buddha?

- A Fourth
- B Third
- C Second
- D First

Answer: D

Question 41

The Ibadat Khana was a meeting house built by which Mughal Emperor?

- A Babur
- B Humayun
- C Akbar
- D Aurangzeb

Answer: C

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Question 42

Revolving Door was invented by _____.

- A Lucien Vidi
- B John Venn
- C Theophilus Van Kannel
- D Lewis Urry

Answer: C

Question 43

Instrument for measuring work performed is called _____.

- A Eudiometer
- B Anemometer
- C Hyetometer
- D Ergometer

Answer: D

Question 44

What is the unit of the physical quantity "Stress"?

- A newton second
- B steradian
- C pascal
- D joule

Answer: C

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Question 45

Panchayati Raj system has an Intermediate tier known as _____.

- A Gram Panchayat
- B Zila Parishad
- C Sarpanch Panchayat
- D Panchayat Samiti

Answer: D

Question 46

The number of parliamentary seats (Lok Sabha) of Goa is _____.

- A 2
- B 13
- C 20
- D 25

Answer: A

Question 47

Andy Murray is associated with which Sport?

- A Lawn Tennis
- B Basketball
- C Formula One
- D WWE

Answer: A

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Question 48

Who is the author of "Chanakya's Chant"?

- A Amish Tripathi
- B Chitra Banerjee Divakaruni
- C Ruskin Bond
- D Ashwin Sanghi

Answer: D

Question 49

Which of the following is not considered as a part of the Abiotic Environment?

- A Plants
- B Air

C Water

D Soil

Answer: A

Question 50

Which company developed 'Swift' Programming Language?

A Google

B Microsoft

C Facebook

D Apple

Answer: D

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Mathematics

Instructions

For the following questions answer them individually

Question 51

If $\tan 45^\circ + \operatorname{cosec} 30^\circ = x$, then find the value of x .

A $\sqrt{3}$

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

C $\frac{\sqrt{3}-4}{2\sqrt{3}}$

D 3

Answer: D

Explanation:

Expression : $\tan 45^\circ + \operatorname{cosec} 30^\circ = x$

$$= 1 + \frac{1}{\sin 30} = 1 + \frac{1}{\frac{1}{2}}$$

$$= 1 + 2 = 3$$

=> Ans - (D)

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Question 52

A wholesaler sells a watch to a retailer at a gain of 20% and the retailer sells it to a customer at a loss of 10%. If the customer pays Rs 874.8, what had it cost the wholesaler?

A Rs 945

B Rs 810

C Rs 994

D Rs 675

Answer: B

Explanation:

For the wholesaler,

Let the cost price = Rs. $100x$

With profit of 20%, Selling price = $\frac{120}{100} \times 100x = Rs.120x$

For the retailer,

Cost price = Rs. $120x$

With a loss of 10%, Selling price = $\frac{90}{100} \times 120x = Rs.108x$

For the customer,

Cost price = $108x = 874.8$

$$\Rightarrow x = \frac{874.8}{108} = \frac{97.2}{12} = 8.1$$

\therefore Cost price for retailer = $100 \times 8.1 = Rs810$

Question 53

If $\sqrt{\frac{(1+\cos A)}{2}} = x$, then find the value of x .

A $\sin(A/2)$

B $\tan(A/2)$

C $\cot(A/2)$

D $\cos(A/2)$

Answer: D

Explanation:

Using double angle formula, we know that $\cos(2\theta) = \cos^2\theta - \sin^2\theta$

$$\Rightarrow \cos(2\theta) = \cos^2\theta - (1 - \cos^2\theta)$$

$$\Rightarrow \cos(2\theta) = 2\cos^2\theta - 1$$

Replacing θ by $\frac{A}{2}$, we get :

$$\Rightarrow \cos A = 2\cos^2\left(\frac{A}{2}\right) - 1$$

$$\Rightarrow \cos A + 1 = 2\cos^2\left(\frac{A}{2}\right)$$

$$\Rightarrow \frac{(\cos A + 1)}{2} = \cos^2\left(\frac{A}{2}\right)$$

$$\Rightarrow \sqrt{\frac{(1+\cos A)}{2}} = \cos\left(\frac{A}{2}\right)$$

\Rightarrow Ans - (D)

Question 54

P and Q can do a project in 150 and 100 days respectively. In how many days can they complete 60% of the project if they work together?

A 12 days

- B 72 days
- C 42 days
- D 36 days

Answer: D

Explanation:

Let total project to be done = 300 units

$$P's \text{ efficiency} = \frac{300}{150} = 2 \text{ units/day}$$

$$Q's \text{ efficiency} = \frac{300}{100} = 3 \text{ units/day}$$

$$60\% \text{ of the work} = \frac{60}{100} \times 300 = 180 \text{ units}$$

$$(P + Q)'s \text{ 1 day's efficiency} = 2 + 3 = 5 \text{ units/day}$$

$$\therefore \text{Time taken by them to complete 60\% of the work together} = \frac{180}{5} = 36 \text{ days}$$

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Question 55

If $\sec A + \tan A = x$, then find the value of x .

- A $\sqrt{\left[\frac{1 - \sin A}{1 + \sin A}\right]}$
- B $(1 + \sin A)/(1 - \sin A)$
- C $(1 - \sin A)/(1 + \sin A)$
- D $\sqrt{\left[\frac{1 + \sin A}{1 - \sin A}\right]}$

Answer: D

Explanation:

Expression : $\sec A + \tan A = x$

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

Using, $\sin^2 A + \cos^2 A = 1$

$$= \frac{1 + \sin A}{\sqrt{1 - \sin^2 A}} = \sqrt{\frac{1 + \sin A}{(1 + \sin A) \times (1 - \sin A)}}$$

$$= \frac{\sqrt{1 + \sin A}}{\sqrt{1 - \sin A}} = \sqrt{\frac{1 + \sin A}{1 - \sin A}}$$

=> Ans - (D)

Question 56

A cone of height 12 cm and diameter 10 cm is mounted on a hemisphere of the same diameter. What is the volume of the solid thus formed?

- A 384.13 sq cm
- B 576.19 sq cm
- C 192.06 sq cm

D 288.1 sq cm

Answer: B

Explanation:

Height of cone, $h = 12$ cm and radius of cone, $r = 5$ cm

Radius of hemisphere, $r = 5$ cm

Volume of solid = Volume of cone + Volume of hemisphere

$$= \left(\frac{1}{3}\pi r^2 h\right) + \left(\frac{2}{3}\pi r^3\right)$$

$$= \left(\frac{\pi r^2}{3}\right)[h + 2r]$$

$$= \left(\frac{22 \times 25}{7 \times 3}\right)(12 + 10)$$

$$= \frac{22 \times 22 \times 25}{21} = \frac{12100}{21}$$

$$= 576.19 \text{ cm}^2$$

Question 57

The length of the diagonal of a rectangle is 26 cm and that of one side is 10 cm. What is the area of this rectangle?

A 260 sq cm

B 120 sq cm

C 130 sq cm

D 240 sq cm

Answer: D

Explanation:

Let breadth of the rectangle $b = 10$ cm and diagonal $d = 26$ cm

Let length of rectangle = l cm

$$\text{Using, } (l)^2 + (b)^2 = (d)^2$$

$$\Rightarrow (l)^2 + (10)^2 = (26)^2$$

$$\Rightarrow (l)^2 = 676 - 100 = 576$$

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

$$\therefore \text{Area of rectangle} = l \times b$$

$$= 24 \times 10 = 240 \text{ cm}^2$$

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Question 58

What smallest number should be added to 2401 so that the sum is completely divisible by 14 ?

A 8

B 7

C 4

D 5

Answer: B

Explanation:

Factorizing $2401 = 14 \times 171 + 7$

Thus, on dividing 2401 by 14, the remainder is 7

\therefore The number that must be added to 2401 so that the sum obtained is completely divisible by 14

$$= 14 - 7 = 7$$

\Rightarrow Ans - (B)

Question 59

If a merchant offers a discount of 25% on the list price, then he makes a loss of 5%. What % profit or % loss will he make if he sells at a discount of 10% of the list price?

- A 5.5 percent loss
- B 14 percent profit
- C 50 percent profit
- D 26 percent loss

Answer: B

Explanation:

Let list price = Rs. $100x$

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

Let Cost price = Rs. y

$$\Rightarrow \text{Loss \%} = \frac{y-75x}{y} \times 100 = 5$$

$$\Rightarrow \frac{y-75x}{y} = \frac{5}{100} = \frac{1}{20}$$

$$\Rightarrow 20y - 1500x = y$$

$$\Rightarrow 20y - y = 1500x$$

$$\Rightarrow y = \frac{1500x}{19} \approx 79x$$

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

$$\therefore \text{Profit \%} = \frac{90x-79x}{79x} \times 100$$

$$= 13.92 \approx 14\%$$

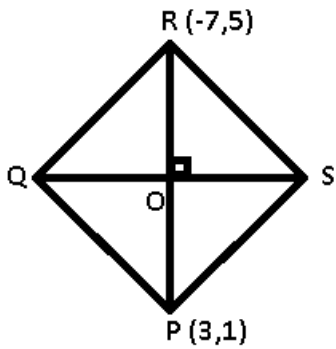
Question 60

P(3,1) and R(-7,5) are vertices of a rhombus PQRS. What is the equation of diagonal QS?

- A $5x - 2y = 16$
- B $5x - 2y = -16$
- C $5x + 2y = -16$
- D $5x + 2y = 16$

Answer: B

Explanation:



Diagonals of a rhombus bisect each other perpendicularly. Thus, O is the mid point of QS and RP.

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

$$\Rightarrow O = (\frac{3-7}{2}, \frac{1+5}{2}) = (-2, 3)$$

$$\text{Slope of PR} = \frac{1-5}{3+7} = \frac{-2}{5}$$

Product of slopes of two perpendicular lines is -1

$$\Rightarrow \text{Slope of QS} = m \times \frac{-2}{5} = -1$$

$$\Rightarrow m = \frac{5}{2}$$

\therefore Equation of line QS with slope $m = \frac{5}{2}$ and passing through point O $(x_1, y_1) = (-2, 3)$

$$= (y - y_1) = m(x - x_1)$$

$$= (y - 3) = \frac{5}{2}(x + 2)$$

$$= 2y - 6 = 5x + 10$$

$$= 5x - 2y = -16$$

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Question 61

If $5A = 13B = 7C$; find the value of $A : B : C$.

A 91:35:65

B 65:35:91

C 35:91:65

D 7:13:5

Answer: A

Explanation:

$$\text{Let } 5A = 13B = 7C = k$$

$$\Rightarrow A = \frac{k}{5}, B = \frac{k}{13}, C = \frac{k}{7}$$

$$\Rightarrow \text{Ratio of } A : B : C = \frac{k}{5} : \frac{k}{13} : \frac{k}{7}$$

$$= \frac{1}{5} : \frac{1}{13} : \frac{1}{7}$$

L.C.M. of 5,13 and 7 = 455, thus multiplying by 455, we get :

$$= \frac{455}{5} : \frac{455}{13} : \frac{455}{7}$$

$$= 91 : 35 : 65$$

Question 62

To travel 708 km, an Express train takes 6 hours more than Rajdhani train. If however, the speed of the Express train is doubled, it takes 3 hours less than Rajdhani train. What is the speed of Rajdhani train?

- A 59 km/hr
- B 78.7 km/hr
- C 39.3 km/hr
- D 98.3 km/hr

Answer: A

Explanation:

Let speed of Rajdhani train = x km/hr and Express train = y km/hr

Using, time = distance/speed

Acc. to ques, $\Rightarrow \frac{708}{y} - \frac{708}{x} = 6$

$$\Rightarrow \frac{1}{y} - \frac{1}{x} = \frac{6}{708} = \frac{1}{118} \text{ -----(i)}$$

If speed of express train is doubled = $2y$ km/hr

$$\Rightarrow \frac{708}{x} - \frac{708}{2y} = 3$$

$$\Rightarrow \frac{1}{x} - \frac{1}{2y} = \frac{3}{708} = \frac{1}{236} \text{ -----(ii)}$$

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

$$\Rightarrow \frac{1}{y} - \frac{1}{2y} = \frac{1}{118} + \frac{1}{236}$$

$$\Rightarrow \frac{1}{2y} = \frac{3}{236}$$

$$\Rightarrow y = \frac{118}{3} \text{ km/hr}$$

$$\therefore \text{Speed of Rajdhani} = \frac{1}{x} = \frac{3}{118} - \frac{1}{118}$$

$$\Rightarrow \frac{1}{x} = \frac{2}{118} = \frac{1}{59}$$

$$\Rightarrow x = 59 \text{ km/hr}$$

Question 63

Find measure of central angle of the arc whose length is 22 cm and radius of the circle is 28 cm?

- A 60°
- B 45°
- C 75°
- D 90°

Answer: B

Explanation:

Radius = 28 cm and let central angle = θ

$$\text{Length of arc} = \frac{\theta}{360} \times 2\pi r = 22$$

$$\Rightarrow \frac{\theta}{360} \times 2 \times \frac{22}{7} \times 28 = 22$$

$$= \frac{\theta}{360} \times 2 \times 4 = 1$$

$$\Rightarrow \theta = \frac{360}{8} = 45^\circ$$

\Rightarrow Ans - (B)

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Question 64

The area of an equilateral triangle is $9\sqrt{3}$ sq cm, find its perimeter?

- A 18 cm
- B 9 cm
- C $9\sqrt{3}$ cm
- D $6\sqrt{3}$ cm

Answer: A

Explanation:

Let the side of equilateral triangle = a cm

$$\text{Area of equilateral triangle} = \frac{\sqrt{3}}{4} a^2 = 9\sqrt{3}$$

$$\Rightarrow a^2 = 9 \times 4 = 36$$

$$\Rightarrow a = \sqrt{36} = 6 \text{ cm}$$

$$\therefore \text{Perimeter of equilateral triangle} = 3a$$

$$= 3 \times 6 = 18 \text{ cm}$$

\Rightarrow Ans - (A)

Question 65

If $3x - 10 = -(2x + 5)$, then the numerical value of $(x - 4)^3$ is

- A 27
- B 125
- C -125
- D -27

Answer: D

Explanation:

$$\text{Expression : } 3x - 10 = -(2x + 5)$$

$$\Rightarrow 3x - 10 = -2x - 5$$

$$\Rightarrow 3x + 2x = 10 - 5 = 5$$

$$\Rightarrow x = \frac{5}{5} = 1$$

$$\text{To find : } (x - 4)^3$$

$$= (1 - 4)^3 = (-3)^3 = -27$$

\Rightarrow Ans - (D)

Question 66

The average revenues of 13 consecutive years of a company is Rs 82 lakhs. If the average of first 7 years is Rs 77 lakhs and that of last 7 years is Rs 89 lakhs, find the revenue for the 7th year.

- A Rs 98 lakhs
- B Rs 94 lakhs
- C Rs 96 lakhs
- D Rs 92 lakhs

Answer: C

Explanation:

Total revenues of 13 years of the company = $82 \times 13 = \text{Rs. } 1066$ lakhs

Total revenue of first 7 years = $77 \times 7 = \text{Rs. } 539$ lakhs

Total revenue of last 7 years = $89 \times 7 = \text{Rs. } 623$ lakhs

\therefore Revenue of 7th year = $(539 + 623) - 1066 = 1162 - 1066$

= Rs. 96 lakhs

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Question 67

If $xy = -30$ and $x^2 + y^2 = 61$, then find the value of $(x + y)$.

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

Answer: C

Explanation:

Given : $(x^2 + y^2) = 61$ and $xy = -30$

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

$\Rightarrow (x + y)^2 = 61 + (2 \times -30)$

$\Rightarrow (x + y) = \sqrt{61 - 60} = 1$

\Rightarrow Ans - (C)

Question 68

A bank offers 10% compound interest per half year. A customer deposits Rs. 3600 each on 1st January and 1st July of a year. At the end of the year, the amount he would have gained by way of interest is.

- A Rs 1116
- B Rs 2232
- C Rs 549
- D Rs 279

Answer: A

Explanation:

Principal = Rs. 3,600 and Rate = 10%

Total interest gained = Interest on second time invested amount + Interest on initially invested amount

Total interest gained = 3600 of 10% + 3600 of 21%

$$= 360 + 756$$

$$= 1116$$

Question 69

A number is greater than five times its reciprocal by $\frac{19}{2}$. Find the number.

A 11

B 9

C 10

D 8

Answer: C

Explanation:

Let the number be x

According to ques,

$$\Rightarrow x - \left(5 \times \frac{1}{x}\right) = \frac{19}{2}$$

$$\Rightarrow \frac{x^2 - 5}{x} = \frac{19}{2}$$

$$\Rightarrow 2x^2 - 10 = 19x$$

$$\Rightarrow 2x^2 - 19x - 10 = 0$$

$$\Rightarrow 2x^2 + x - 20x - 10 = 0$$

$$\Rightarrow x(2x + 1) - 10(2x + 1) = 0$$

$$\Rightarrow (2x + 1)(x - 10) = 0$$

$$\Rightarrow x = \frac{-1}{2}, 10$$

Since x can't be negative, $\Rightarrow x = 10$

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Question 70

An engineering student has to secure 36% marks to pass. He gets 53 and fails by 37 marks. Find the maximum marks.

A 275 marks

B 250 marks

C 300 marks

D 325 marks

Answer: B

Explanation:

Let maximum marks = $100x$

$$\Rightarrow \text{Passing marks} = \frac{36}{100} \times 100x = 36x$$

According to ques,

$$\Rightarrow 36x - 37 = 53$$

$$\Rightarrow 36x = 53 + 37 = 90$$

$$\Rightarrow x = \frac{90}{36} = 2.5$$

$$\therefore \text{Maximum marks} = 100 \times 2.5 = 250$$

Question 71

If $2x + 4(x - 3) < -2 - x < 2x - 1$, then find the value of x .

A -1

B 1

C 2

D -2

Answer: B

Explanation:

Expression 1 : $-2 - x < 2x - 1$

$$\Rightarrow 2x + x > 1 - 2$$

$$\Rightarrow x > \frac{-1}{3} \text{ -----(i)}$$

Expression 2 : $2x + 4(x - 3) < -2 - x$

$$\Rightarrow 6x - 12 < -2 - x$$

$$\Rightarrow 6x + x < 12 - 2$$

$$\Rightarrow x < \frac{10}{7} \text{ -----(ii)}$$

Combining inequalities (i) and (ii), we get : $\frac{-1}{3} < x < \frac{10}{7}$

Thus, only value that x can take among the options = 1

\Rightarrow Ans - (B)

Question 72

Refer the below data table and answer the following Question

	Weight (kg)	Height in Meter
Anju	68	1.74
Ankita	72	1.54
Anupama	69	1.77
Anuradha	68	1.71

Who has the least weight to height ratio?

A Anju

B Ankitha

C Anupama

D Anuradha

Answer: C

Explanation:

Ratio of weight to height

$$\text{Anju : } \frac{68}{1.74} = 39.1$$

$$\text{Ankita : } \frac{72}{1.54} = 46.75$$

$$\text{Anupama : } \frac{69}{1.77} = 38.9 \text{ [LEAST]}$$

$$\text{Anuradha : } \frac{68}{1.71} = 39.76$$

=> Ans - (C)

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Question 73

Refer the below data table and answer the following Question.

Year	Company's % Profit
2011	15
2012	15
2013	25
2014	20
2015	10

What was the Revenue of the company if its Expenditure was Rs 475 crore in the year when its % profit was the least?

- A 570
- B 617.5
- C 475
- D 522.5

Answer: D

Explanation:

Profit % was least in 2015 = 10%

Let revenue = Rs. x crore and expenditure = Rs. 475 crore

$$\Rightarrow \text{Profit \%} = \frac{x-475}{475} \times 100 = 10$$

$$\Rightarrow \frac{x-475}{475} = \frac{10}{100} = \frac{1}{10}$$

$$\Rightarrow x - 475 = \frac{475}{10} = 47.5$$

$$\Rightarrow x = 475 + 47.5 = 522.5 \text{ crore}$$

Question 74

The following table shows the number of children in each house of a society.

Number of Children	Number of Houses
0	6
1	17
2	17
3	3

What is the average number of children per house?

- A 1.65
- B 1.9

C 1.15

D 1.4

Answer: D

Explanation:

Total number of houses = $6 + 17 + 17 + 3 = 43$

Total children = $(0 \times 6) + (1 \times 17) + (2 \times 17) + (3 \times 3)$
 $= 17 + 34 + 9 = 60$

\therefore Average number of children per house = $\frac{60}{43} = 1.4$

=> Ans - (D)

Question 75

Refer the below data table and answer the following Question.

Partners	Present % Share
Anand	10
Basu	25
Chinmay	30
Dhiraj	15
Ejaz	20

If the company has issued six lakh shares between its five partners and if Anand offers to sell 15,000 of his shares to Dhiraj, then Dhiraj will have how many shares?

A 120000 shares

B 90000 shares

C 105000 shares

D 75000 shares

Answer: C

Explanation:

Total shares = Rs. 6,00,000

Original shares with Dhiraj = $\frac{15}{100} \times 600000 = 90,000$

If Anand offers to sell 15,000 of his shares to Dhiraj,

=> Shares with Dhiraj = $90,000 + 15,000 = 1,05,000$

=> Ans - (C)

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English

Instructions

For the following questions answer them individually

Question 76

Select the synonym of proscriptive

A squalid

B exiguous

C excessive

D thrifty

Answer: C

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Question 77

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase.

To be deprived of a close relation or friend through their death.

A to divest

B to bereave

C to oust

D to dispossess

Answer: B

Question 78

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase.

To make someone feel completely baffled.

A to perplex

B to explicate

C to construe

D to elucidate

Answer: A

Question 79

Improve the bracketed part of the sentence.

Everyday we (have usually) dinner at 8 o'clock.

A usually have

B have usual

C have had usually

D no improvement

Answer: A

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Question 80

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'.

The plane was too(A)/ far away that it was(B)/just a dot in the sky.(C)/No error(D)

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

Answer: A

Question 81

Select the antonym of obligation

- A bond
- B burden
- C commitment
- D irresponsibility

Answer: D

Question 82

Improve the bracketed part of the sentence.

(It is) a pleasant day, we went for a walk.

- A Having been
- B It being
- C It was
- D no improvement

Answer: B

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Question 83

In the following question, sentence given with blank is to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

For three months, I have had a _____ headache.

- A inbred
- B settled
- C chronic

D lifelong

Answer: C

Question 84

Select the synonym of
proximity

A futile

B preposterous

C absurd

D imminent

Answer: D

Question 85

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.

We have finished the assignment.

A The assignment has been finished by us.

B The assignment were finished by us.

C The assignment had been finished by us.

D The assignment has had been finished by us.

Answer: A

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Question 86

In the following question, sentence given with blank is to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

When I broke my leg, it was the _____ of a nightmare week.

A top

B maximum

C summit

D climax

Answer: D

Question 87

Select the word with the correct spelling.

A thorough

B brazened

C termynus

D adherant

Answer: B

Question 88

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'.

It was like(A)/reading a(B)/open book.(C)/No error(D)

A A

B B

C C

D D

Answer: B

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Question 89

Rearrange the parts of the sentence in correct order.

Only a country not yet rid

P-of its colonial hangover

Q-and controls, labels dissent as seditious

R-of a government that commands

A PRQ

B PQR

C QPR

D RPQ

Answer: A

Question 90

Select the antonym of to lament

A to deplore

B to bawl

C to laud

D to bemoan

Answer: C

Question 91

Rearrange the parts of the sentence in correct order.

Developing countries

P-should question the rationale

Q-for such a registry ahead

R-of a negotiated outcome on this issue

A QRP

B PQR

C RPQ

D QPR

Answer: B

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Question 92

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.

Mother said to you, "When will you start from Pune?"

A Mother asked you when you would start from Pune.

B Mother asked you when you will start from Pune.

C Mother asked you when you will be starting from Pune.

D Mother asked you when you will have started from Pune.

Answer: A

Question 93

Select the word with the correct spelling.

A quaffing

B conveynor

C fuselag

D bumbbling

Answer: A

Question 94

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

A to work in a very scary place

B a place where one is forced to work so hard that it almost kills you

C to work with a team where everybody else is very lazy

D a work shift that runs through the early morning hours

Answer: D

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Question 95

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

A a very rich but humble person

B a person who helps others but with a hidden cause

C a charitable or helpful person

D a person who accepts defeat sportingly

Answer: C

Instructions

In the following passage, some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives.

The second strategy proposed _____ (1) the committee was institutional reform of police processes, including investigation of crimes, professionalization and _____ (2) of court systems with induction of technology _____ (3) limiting appeal procedures to the _____ (4) required. It is here the committee _____ (5) to bring in a bigger and responsible role to victims of crime in the whole proceedings.

Question 96

(1)

A of

B by

C for

D from

Answer: B

Question 97

(2)

A rationalising

B rationalisation

C rationally

D rational

Answer: B

Question 98

(3)

- A but
- B because
- C and
- D nor

Answer: C

Question 99

(4)

- A minimum
- B bottom
- C lower
- D negligible

Answer: A

Question 100

(5)

- A bought
- B brought
- C caught
- D sought

Answer: D

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