



SSC CHSL 18 Jan 2017 Morning 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. Exactly : Precisely :: Evidently : ?

- A Happily
- B Distinctly
- C Apparently
- D Hesitatingly

Answer: B

Explanation:

Exactly and precisely are synonyms meaning to be exact, thus synonym of evidently is *distinctly*.

=> Ans - (B)

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Question 2

Select the related word/letters/number from the given alternatives. EGIK : VTRP :: DFHJ : ?

- A WSQU
- B WSUQ
- C WUSQ
- D WUSP

Answer: C

Explanation:

Expression = EGIK : VTRP :: DFHJ : ?

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, DFHJ : **WUSQ**

=> Ans - (C)

Question 3

Select the related word/letters/number from the given alternatives. ERASE : FSBTF :: MAGIC : ?

- A NHBJD
- B NBHGD
- C NBJHD
- D NBHJD

Answer: D

Explanation:

Expression = ERASE : FSBTF :: MAGIC : ?

The pattern followed is :

E	R	A	S	E
+1	+1	+1	+1	+1
↓	↓	↓	↓	↓
F	S	B	T	F

Thus, MAGIC : NBHJD

=> Ans - (D)

Question 4

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

8 : 27 :: 9 : ?

A 31

B 30

C 17

D 32

Answer: B

Explanation:

Expression = 8 : 27 :: 9 : ?

The pattern followed is = $x : 3(x + 1)$

Eg :- $8 : 3(8 + 1) = 8 : 27$

Similarly, $3 \times (9 + 1) = 3 \times 10 = 30$

=> Ans - (B)

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Question 5

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

A Armchair

B Sofa

C Table

D Paperweight

Answer: D

Explanation:

Except paper weight other three are furniture, hence it is the odd one out.

=> Ans - (D)

Question 6

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

A JPM

- B DJG
- C BHE
- D SDA

Answer: D

Explanation:

(A) : J (+6 letters) = P (-3 letters) = M

(B) : D (+6 letters) = J (-3 letters) = G

(C) : B (+6 letters) = H (-3 letters) = E

(D) : S (+11 letters) = D (-3 letters) = A

=> Ans - (D)

Question 7

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

- A 156
- B 200
- C 182
- D 240

Answer: B

Explanation:

$$156 = 12^2 + 12$$

$$182 = 13^2 + 13$$

$$240 = 15^2 + 15$$

=> Ans - (B)

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Question 8

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

- A 462
- B 297
- C 674
- D 891

Answer: C

Explanation:

Middle digit is sum of first and last digit, but $6 + 4 \neq 7$, hence 674 is the odd one out.

=> Ans - (C)

Question 9

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. Khilji dynasty, ? , Sayyid dynasty, Lodi dynasty

- A Mughal dynasty
- B Sur dynasty
- C Tughlaq dynasty
- D Slave dynasty

Answer: C

Explanation:

Dynasties in increasing order according to their time period.

= Khilji dynasty -> Tughlaq dynasty -> Sayyid dynasty -> Lodi dynasty

=> Ans - (C)

Question 10

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. ZBJ, YCK, XDL, ?

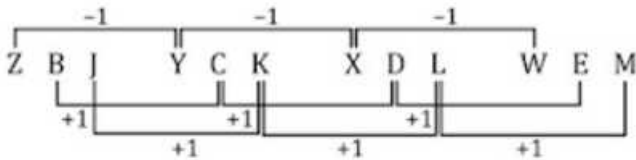
- A VMW
- B WDM
- C WEM
- D WFM

Answer: C

Explanation:

Expression : ZBJ, YCK, XDL, ?

The pattern followed is :



Thus, missing term = WEM

=> Ans - (C)

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Question 11

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. AT, DR, GP, JN, ?

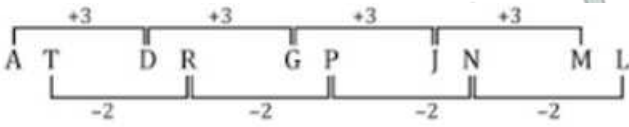
- A MJ
- B MN
- C MK
- D ML

Answer: D

Explanation:

Expression : AT, DR, GP, JN, ?

The pattern followed is :



Thus, missing term = ML

=> Ans - (D)

Question 12

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.
3, 4, 12, 48, ?

A 426

B 576

C 467

D 512

Answer: B

Explanation:

The previous number is multiplied.

$$4 \times 3 = 12$$

$$12 \times 4 = 48$$

$$48 \times 12 = 576$$

=> Ans - (B)

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.

Statements:

(I) Demand of wooden furniture has gone down in an aggregate scenario.

(II) Wooden furniture has been replaced by fiber or plastic made furniture.

Conclusion:

(I) Wooden furniture needs more maintenance and it is difficult to handle.

(II) Plastic furniture is termite free and can be easily handled.

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:

The given statements indicate that demand of wooden furniture has gone down, as it is replaced by fiber or plastic made furniture. The possible conclusion must include the pros of plastic furniture and cons of wooden ones. As mentioned in above conclusions, plastic furniture is termite free and can be easily handled as compared to wooden furniture.

Thus, conclusion I and II both follow.

=> Ans - (B)

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Question 14

Amit's age is four times the age of Babli. Babli's age is three times the age of Priya. If the present age of Priya is 5 years, what is the present age (in years) of Amit?

- A 65
- B 45
- C 55
- D 60

Answer: D

Explanation:

Priya's present age = 5 years

=> Babli's present age = $3 \times 5 = 15$ years

∴ Amit's present age = $4 \times 15 = 60$ years

=> Ans - (D)

Question 15

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

- i. Harmony
- ii. Harness
- iii. Honey
- iv. Harangue

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

Answer: D

Explanation:

As per the order of dictionary :

= Harangue -> Harmony -> Harness -> Honey

≡ iv,i,ii,iii

=> Ans - (D)

Question 16

In a certain code language, "CUTE" is written as "9251" and "REST" is written as "4135". How is "RESCUE" written in that code language?

- A 413921
- B 431291
- C 423911

D 413912

Answer: A

Explanation:

The codes for each letter is given :

R -> 4

E -> 1

S -> 3

C -> 9

U -> 2

E -> 1

Thus, RESCUE : **413921**

=> Ans - (A)

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Question 17

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

B	A	B
C	C	D
Y	P	?

A E

B D

C J

D H

Answer: C

Explanation:

The pattern followed is that the alphabets are numbered alphabetically, A=1, B=2, C=3 and so on and then the last alphabet in each column is obtained by :

$$B=2 \text{ and } C=3, \Rightarrow (2 + 3)^2 = 25 \equiv Y$$

$$A=1 \text{ and } C=3, \Rightarrow (1 + 3)^2 = 16 \equiv P$$

$$\text{Similarly, } B=2 \text{ and } D=4, \Rightarrow (2 + 4)^2 = 36 = 26 + 10 \equiv J$$

=> Ans - (C)

Question 18

If "A" means "subtraction", "B" means "division", "C" means "addition" and "D" means "multiplication", then
294 B 6 A 30 C 31 D 4 = ?

A 16

B 156

C 143

D 163

Answer: C

Explanation:

Expression : $294 \div 6 - 30 + 31 \times 4 = ?$

$$\begin{aligned} &\equiv 294 \div 6 - 30 + 31 \times 4 \\ &= \left(\frac{294}{6}\right) + (-30) + (31 \times 4) \\ &= 49 - 30 + 124 = 143 \end{aligned}$$

=> 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?
W_YZ_X_ZW_Y_

- A ZWZXX
- B YWYYZ
- C XWYYZ
- D XWYXZ

Answer: D

Explanation:

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

= WXYZ WXYZ WXYZ

=> Ans - (D)

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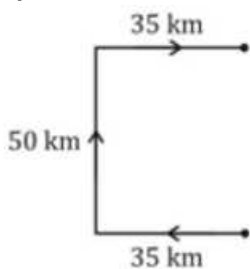
Question 20

Ankita travels 35 km towards the west, takes a right turn and travels 50 km more. Next, she takes another right turn and travels 35 km in that direction. How far is she now from her original position?

- A 75 km
- B 25 km
- C 50 km
- D 20 km

Answer: C

Explanation:



Ankita travels 35 km towards the west, takes a right turn and travels 50 km towards north. Finally, she takes another right turn and travels 35 km towards east.

Thus, distance between her original and final position = 50 km

=> Ans - (C)

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, V can be represented by 21, 03, etc., and U can be represented by 96, 67, etc. Similarly, you have to identify the set for the word COME.

Matrix - I

	0	1	2	3	4
0	R	E	R	Y	E
1	A	C	M	Q	H
2	O	Y	L	C	P
3	E	V	A	P	C
4	M	E	C	Y	O

Matrix - II

	5	6	7	8	9
5	V	M	O	G	M
6	O	R	U	D	U
7	E	M	O	M	A
8	C	X	C	O	Y
9	M	U	E	S	E

- A 11,44,58, 01
- B 23,65,13, 77
- C 85,57,12,87
- D 34, 20,76,99

Answer: D

Explanation:

- (A) : 11,44,58, 01 = COGE
- (B) : 23,65,13, 77 = COQO
- (C) : 85,57,12,87 = COMC
- (D) : 34, 20,76,99 = **COME**

=> Ans - (D)

Question 22

Introducing a boy, a man says, "He is the son of the brother of my grandfather's son." How is the boy related to the man?

- A Brother
- B Grandfather
- C Nephew
- D Cousin

Answer: D

Explanation:

The man's grandfather's son = man's father

Brother of his father = his uncle

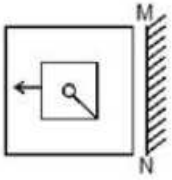
Now, the boy is the son of his uncle, thus they are cousins

=> Ans - (D)

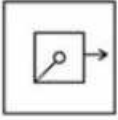
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Question 23

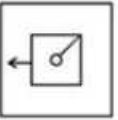
If a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure?



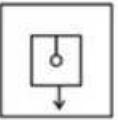
A



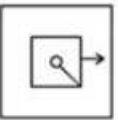
B



C



D



Answer: A

Explanation:

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

So the arrow pointing towards left will be reversed and will now face towards right, thus the middle two options will be eliminated.

Also, in the question figure, the position of the half diagonal inside the square will be changed and it will appear at left side, hence first option is the right image.

=> Ans - (A)

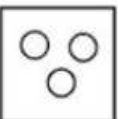
Question 24

Identify the diagram that best represents the relationship among the given classes. Biosphere, Hydrosphere, Atmosphere

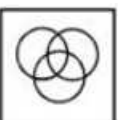
A



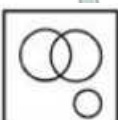
B



C



D



Answer: A

Explanation:

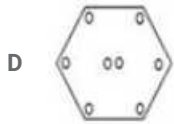
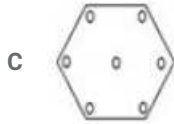
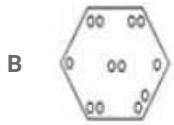
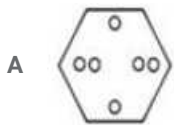
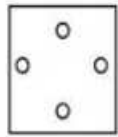
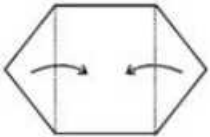
Both Hydrosphere and Atmosphere are parts of biosphere, but are completely different from each other, hence the venn diagram that best describes above relation is :



=> Ans - (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: A

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General Awareness

Instructions

For the following questions answer them individually

Question 26

Which temple is built in the form of the chariot of Surya, the Sun God with 24 wheels?

- A Soorya Narayana Temple
- B Dakshinaraka Temple
- C Surya Pahar Temple
- D Konark Sun Temple

Answer: D

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Question 27

Kangana Ranaut has won how many National awards?

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

Answer: B

Question 28

Vitamin A is also known as

- A Thiamine
- B Riboflavin
- C Retinol
- D Calciferol

Answer: C

Question 29

Some roots, called, arise from an organ other than the radicle.

- A tap roots
- B stilt roots
- C fibrous roots
- D adventitious roots

Answer: D

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Question 30

Spiders belong to which class of animals?

- A Arachnids
- B Aves
- C Gastropods
- D Anthozoa

Answer: A

Question 31

Which of the following elements has the lowest melting point?

- A Bromine
- B Zinc
- C Lead
- D Calcium

Answer: A

Question 32

Ethane gas has a slightlytaste.

- A sweet
- B bitter
- C sour
- D salty

Answer: A

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Question 33

ROM in computer science stands for?

- A Random Only Memory
- B Read Out Memory
- C Read Only Memory
- D Rotation Only Memory

Answer: C

Question 34

Which among the following is not a folk dance form of Kerala?

- A Kathakali
- B Thullal
- C Kaikottikali
- D Chappeli

Answer: D

Question 35

The minimum price at which I was willing to sell my old TV was Rs 37,000. I quoted Rs 50,000 while selling it, but it sold for Rs 42,000. This transaction generated

- A Rs 5000 worth of consumer surplus
- B Rs 8000 worth of consumer surplus
- C Rs 5000 worth of producer surplus
- D Rs 8000 worth of producer surplus

Answer: C

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Question 36

.....is a good whose quantity demanded decreases when consumer income rises.

- A Veblen good
- B normal good
- C exclusive good
- D inferior good

Answer: D

Question 37

Which of the following processes is responsible for causing rain?

- A Filtration
- B Evaporation and Condensation
- C Evaporation
- D Condensation

Answer: B

Question 38

Manas National Park is in which state?

- A Orissa
- B Maharashtra
- C Assam
- D Sikkim

Answer: C

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Question 39

Who sang the song "Jag Ghoomeya" from the Movie Sultan?

- A Sonu Nigam
- B Shaan
- C Rahat Fateh Ali Khan
- D Arijit

Answer: C

Question 40

Marble is a metamorphic rock of

- A Sandstone
- B Limestone
- C Granite
- D Clay

Answer: B

Question 41

Which city is located on the banks of the river Chambal?

- A Ahmedabad
- B Ayodhya
- C Badrinath
- D Kota

Answer: D

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Question 42

The battle of Tarain was fought between Prithviraj Chauhan and

- A Mahmood Ghaznavi
- B Muhammad Ghori
- C Babar
- D Humayun

Answer: B

Question 43

World War II started in which year?

- A 1914
- B 1919
- C 1939
- D 1945

Answer: C

Question 44

ISRO built India's first satellite known as

- A Aryabhata
- B Bhaskara
- C Rohini
- D Insat 1A

Answer: A

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Question 45

The value of acceleration due to gravity (g) at a distance of $2R$ from the surface of earth, where R is the radius of earth is

- A $g/3$
- B $g/4$
- C $g/9$
- D $g/2$

Answer: C

Question 46

The unit of which physical quantity is not pascal?

- A Moment of inertia
- B Pressure
- C Stress
- D Young's modulus

Answer: A

Question 47

What is the full form of the Indian Political Party, "AITC"?

- A All India Trinamool Congress
- B All India Telugu Congress

- C All India Telugu Communist
- D All India Trinamool Communist

Answer: A

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Question 48

The number of parliamentary seats (Rajya Sabha) of Karnataka is

- A 12
- B 16
- C 18
- D 31

Answer: A

Question 49

Apurvi Chandela is related to

- A Boxing
- B Archery
- C Swimming
- D Shooting

Answer: D

Question 50

Who wrote the book "The Broken Wing"?

- A APJ Abdul Kalam
- B Kiran Bedi
- C Sarojini Naidu
- D Premchand

Answer: C

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English

Instructions

For the following questions answer them individually

Question 51

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.

Ravi had committed a mistake.

- A A mistake has been committed by Ravi.
- B A mistake had been committed by Ravi.
- C A mistake was committed by Ravi.
- D A mistake is committed by Ravi.

Answer: B

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Question 52

Select the word with the correct spelling.

- A comands
- B prigish
- C adhesive
- D serenly

Answer: C

Question 53

Select the antonym of endeavour

- A passive
- B buck
- C assay
- D intend

Answer: A

Question 54

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.

To understand the nature of electromagnetic radiation, it is imperative that we grasp thenature of light.

- A twice
- B dual
- C double
- D dichotomous

Answer: B

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Question 55

In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.
To put the cat among the pigeons

- A To hunt easy prey
- B To be different in a group where everybody is alike
- C To do something that is likely to cause controversy
- D When the entire group feels trapped in a bad situation

Answer: C

Question 56

Rearrange the parts of the sentence in correct order.

He spent a third

Pwas of any consequence

Qmade sure that none of them

Rof the time describing his tax proposals, but

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

Answer: D

Question 57

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 temple is(A)/within a hundred yards(B)/from my house(C)/No error(D)

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

Answer: D

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Question 58

Select the synonym of to moan

- A to sigh
- B to beam
- C to smirk

D to simpler

Answer: A

Question 59

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

A meritorious

B honourable

C virtuous

D noble

Answer: A

Question 60

Improve the bracketed part of the sentence.

The candidate was likely to win the assembly elections (with the) sweeping majority.

A by the

B with a

C by a

D no improvement

Answer: C

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Question 61

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 am certain that(A)/the officer is not only(B)/greedy but corrupt.(C)/No error(D)

A A

B B

C C

D D

Answer: C

Question 62

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.

'Do you have anything to tell me, little princess?' asked the king.

A The king ask the little princess if she have anything to tell him.

B The king asked the little princess that if she had anything to tell him.

- C The king said to the little princess if she had anything to say to him.
- D The king asked the little princess whether she had anything to tell him.

Answer: D

Question 63

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase involving or showing violence and bloodshed

- A inundate
- B gory
- C sanguine
- D imbrue

Answer: B

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Question 64

Select the antonym of beleaguer

- A gnaw
- B assist
- C badger
- D pester

Answer: B

Question 65

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.

The special court waswithout having reached any decision on the case.

- A adjourned
- B dispersed
- C postponed
- D recessed

Answer: A

Question 66

Select the word with the correct spelling.

- A bloting
- B terrazo
- C gulible

D pyroxene

Answer: D

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Question 67

Select the synonym of melodramatic

A tranquil

B halcyon

C bucolic

D theatrical

Answer: D

Question 68

Rearrange the parts of the sentence in correct order.

The yatra focussed Pfor poor and Qmarginalised communities
Ron access to development and dignity

A RQP

B PQR

C RPQ

D QRP

Answer: C

Question 69

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

A To do random acts hoping one will be successful

B To have a casual conversation

C To release stomach gases

D To brag about some mild achievement

Answer: B

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Question 70

Improve the bracketed part of the sentence.

It was hard to believe that she (were) dead for three months.

A was

B has been

- C is
- D no improvement

Answer: B

Instructions

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

.....(1).....being an intangible idea, the nation is quite real because it is a shared idea.(2).....of nationhood are important for this sharing to be reliably reproduced, which is why we have familiar(3).....to memory like maps, flags, or the figure of Mother India. National symbols are extremely powerful(4).....they connect to compressed reservoirs of intense(5).....

Question 71

(1)

- A In spite
- B Although
- C Despite of
- D Despite

Answer: D

Question 72

(2)

- A Symbols
- B Badges
- C Emblems
- D Figures

Answer: A

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Question 73

(3)

- A assistance
- B aids
- C help
- D support

Answer: B

Question 74

(4)

- A since

- B because
- C so
- D thereof

Answer: B

Question 75

(5)

- A compassion
- B empathy
- C emotion
- D elation

Answer: C

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Mathematics

Instructions

For the following questions answer them individually

Question 76

A factory buys 10 machines. 1 MachineA, 4 MachineB and rest MachineC. Prices of the machines are Rs 90000, Rs 40000 and Rs 40000 respectively. Calculate the average cost of these machines?

- A 56666.6
- B 68333.3
- C 45000
- D 43500

Answer: C

Explanation:

Cost of machines A, B and C respectively are : Rs. 90000, 40000 and 40000

Number of machines A, B and C respectively are : 1, 4, 5

$$\Rightarrow \text{Total cost} = (1 \times 90000) + (4 \times 40000) + (5 \times 40000)$$

$$= 90,000 + 160,000 + 200,000 = \text{Rs. } 450,000$$

$$\therefore \text{Average cost} = \frac{450,000}{10} = \text{Rs. } 45,000$$

\Rightarrow Ans - (C)

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Question 77

The reciprocal of the sum of the reciprocals of $\frac{8}{7}$ and $\frac{5}{6}$ is:

- A 83/40
- B 42/83
- C 83/42
- D 40/83

Answer: D

Explanation:

Sum of the reciprocals of $\frac{8}{7}$ and $\frac{5}{6}$

$$= \frac{7}{8} + \frac{6}{5}$$

$$= \frac{7(5)+6(8)}{40} = \frac{35+48}{40}$$

$$= \frac{83}{40}$$

$$\Rightarrow \text{Reciprocal of } \frac{83}{40} = \frac{40}{83}$$

\Rightarrow Ans - (D)

Question 78

If $3x - 2(4 - 3x) < 2x - 5 < 3x + 3$; then the value of x is

- A 1
- B 2
- C 5
- D 0

Answer: D

Explanation:

Expression 1 : $3x - 2(4 - 3x) < 2x - 5$

$$\Rightarrow 3x - 8 + 6x < 2x - 5$$

$$\Rightarrow 9x - 2x < 8 - 5$$

$$\Rightarrow 7x < 3$$

$$\Rightarrow x < \frac{3}{7} \text{ -----(i)}$$

Expression 2 : $2x - 5 < 3x + 3$

$$\Rightarrow 3x - 2x > -5 - 3$$

$$\Rightarrow x > -8 \text{ -----(ii)}$$

Combining inequalities (i) and (ii), we get : $-8 < x < \frac{3}{7}$

The only value that x can take among the options = 0

\Rightarrow Ans - (D)

Question 79

Simplify $(b^2x^3a^2z^4) \times (b^2x^4a^4z^3)/(a^3b^2z^4)$

- A $b^2x^7a^3z^3$
- B $b^3x^7a^3z^3$

C $b^2x^5a^3z^3$

D $b^2x^7a^3z^2$

Answer: A

Explanation:

Expression : $(b^2x^3a^2z^4) \times (b^2x^4a^4z^3) / (a^3b^2z^4)$

$= [(b)^{2+2}(x)^{3+4}(a)^{2+4}(z)^{4+3}] \div [a^3b^2z^4]$

$= (b^4x^7a^6z^7) \div (a^3b^2z^4)$

$= (b)^{4-2}(x)^7(a)^{6-3}(z)^{7-4}$

$= b^2x^7a^3z^3$

=> Ans - (A)

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Question 80

A sum fetched a total simple interest of Rs. 9648 at the rate of 12% per year in 6 years. What is the sum?

A Rs 16080

B Rs 10720

C Rs 8040

D Rs 13400

Answer: D

Explanation:

Let the sum = Rs. $100x$

Rate = 12% under simple interest and time = 6 years

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

=> $\frac{100x \times 12 \times 6}{100} = 9648$

=> $72x = 9648$

=> $x = \frac{9648}{72} = 134$

\therefore Sum = $100 \times 134 = \text{Rs } 13,400$

=> Ans - (D)

Question 81

A shopkeeper, sold dried apricots at the rate Rs 1,310 a kg and bears a loss of 13%. Now if he decides to sell it at Rs 1,441 per kg, what will be the result?

A 8.6 percent loss

B 4.3 percent gain

C 4.3 percent loss

D 8.6 percent gain

Answer: C

Explanation:

Let Cost price = Rs. x

Selling price = Rs. 1310

$$\Rightarrow \text{Loss \%} = \frac{x-1310}{x} \times 100 = 13$$

$$\Rightarrow \frac{x-1310}{x} = \frac{13}{100}$$

$$\Rightarrow 100x - 131000 = 13x$$

$$\Rightarrow 100x - 13x = 131000$$

$$\Rightarrow x = \frac{131000}{87} = \text{Rs } 1505.75$$

If selling price = Rs. 1441

$$\Rightarrow \text{Loss \%} = \frac{1505.75-1441}{1505.75} \times 100$$

$$= \frac{6475}{1505.75} = 4.3\%$$

\Rightarrow Ans - (C)

Question 82

If $\cos 240^\circ = x$, then value of x is

A $-1/\sqrt{2}$

B $\sqrt{3}/2$

C $1/2$

D $-1/2$

Answer: D

Explanation:

Expression : $\cos 240^\circ = x$

$$= \cos(180 + 60)$$

$$= -\cos(60)$$

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

\Rightarrow Ans - (D)

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Question 83

3 hrs after a goods train passed a station, another train travelling at a speed of 88 km/hr following that goods train passed through that station. If after passing the station the train overtakes the goods train in 8 hours. What is the speed of the goods train?

A 76.8 km/hr

B 64 km/hr

C 96 km/hr

D 51.2 km/hr

Answer: B

Explanation:

Let the speed of goods train = x km/hr

Speed of another train = 88 km/hr

Distance between the two trains = $88 \times 3 = 264$ km

The trains are moving in same direction, \Rightarrow Relative speed = $(88 - x)$ km/hr

Time = $3 + 8 = 11$ hours

\Rightarrow speed = distance/time

$$\Rightarrow 88 - x = \frac{264}{11} = 24$$

$$\Rightarrow x = 88 - 24 = 64 \text{ km/hr}$$

\Rightarrow Ans - (B)

Question 84

If $a + b = 9$ and $a^2 + b^2 = 61$, then ab is

A 20

B 10

C 81

D 142

Answer: B

Explanation:

Given : $(a + b) = 9$ and $a^2 + b^2 = 61$

Using $(a + b)^2 = a^2 + b^2 + 2ab$

$$\Rightarrow (9)^2 = 61 + (2 \times ab)$$

$$\Rightarrow 2ab = 81 - 61 = 20$$

$$\Rightarrow ab = \frac{20}{2} = 10$$

\Rightarrow Ans - (B)

Question 85

Reflection of the point (2,5) in the x axis is

A (2,5)

B (-2,-5)

C (-2,5)

D (2,-5)

Answer: D

Explanation:

Reflection of point (x,y) in the x-axis is (x,-y)

$$\Rightarrow \text{Reflection of point (2,5) = (2,-5)}$$

\Rightarrow Ans - (D)

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Question 86

The price of an article is discounted by 25%, to restore to its original value, the new price must be increased by

- A 57 percent
- B 36.31 percent
- C 71.25 percent
- D 33.33 percent

Answer: D

Explanation:

Let the original price of the article = Rs. 100

If the price is cut by 25%, \Rightarrow New price = $\frac{100-25}{100} \times 100 = Rs.75$

To restore to its original value the new price must be increased by = $\frac{100-75}{75} \times 100$

= $\frac{100}{3} = 33.33\%$

\Rightarrow Ans - (D)

Question 87

If $1/\sqrt{(1+\tan^2 A)} = x$, then value of x is

- A $\cos A$
- B $\sin A$
- C $\operatorname{cosec} A$
- D $\sec A$

Answer: A

Explanation:

Expression : $1/\sqrt{(1+\tan^2 A)} = x$

$\therefore (\sec^2 A - \tan^2 A = 1)$

= $\frac{1}{\sqrt{\sec^2 A}}$

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

\Rightarrow Ans - (A)

Question 88

20% discount is offered on an item. By applying a promo code the customer wins 5% cash back. What is the effective discount?

- A 24 percent
- B 25.2 percent
- C 25 percent
- D 6 percent

Answer: A

Explanation:

Let the marked price of item = Rs. $100x$

Amount after 20 % discount = $100x - \frac{20}{100} \times 100x$

$$= 100x - 20x = Rs.80x$$

$$\text{Selling price after 5 \% cashback} = 80x - \frac{5}{100} \times 80x$$

$$= 80x - 4x = Rs.76x$$

$$\Rightarrow \text{Total discounted amount} = 100x - 76x = Rs.24x$$

$$\therefore \text{Effective discount} = \frac{24x}{100x} \times 100 = 24\%$$

\Rightarrow Ans - (A)

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Question 89

A wooden bowl is in shape of a hollow hemisphere of internal radius 8 cm and thickness 1 cm. Find the total surface area of the bowl?

- A 964.85 sq cms
- B 1125.14 sq cms
- C 1687.71 sq cms
- D 281.29 sq cms

Answer: A

Explanation:

The hemispherical bowl has three surfaces to calculate : the interior hemisphere ($r_{int} = 8$) cm , the exterior hemisphere ($r_{ext} = 8 + 1 = 9$) cm and the annular(ring shaped) top edge (r_{ext}, r_{int})

Area of hemisphere = $2\pi r^2$ and area of annular = $\pi(r_{ext}^2 - r_{int}^2)$

Total surface area of hemisphere is the sum of these 3 areas

$$= [2\pi(8)^2] + [2\pi(9)^2] + [\pi(9^2 - 8^2)]$$

$$= \pi[(2 \times 64) + (2 \times 81) + (81 - 64)]$$

$$= \pi(128 + 162 + 17) = 307\pi$$

$$= 307 \times \frac{22}{7} = 964.85 \text{ cm}^2$$

\Rightarrow Ans - (A)

Question 90

If $6A = 7B = 5C$; find $A : B : C$

- A 42:30:35
- B 30:35:42
- C 5:7:6
- D 35:30:42

Answer: D

Explanation:

$$\text{Let } 6A = 7B = 5C = k$$

$$\Rightarrow A = \frac{k}{6}, B = \frac{k}{7}, C = \frac{k}{5}$$

$$\Rightarrow \text{Ratio of } A : B : C = \frac{k}{6} : \frac{k}{7} : \frac{k}{5}$$

$$= \frac{1}{6} : \frac{1}{7} : \frac{1}{5}$$

L.C.M. of 5,6 and 7 = 210, thus multiplying by 210, we get :

$$= \frac{210}{6} : \frac{210}{7} : \frac{210}{5}$$

$$= 35 : 30 : 42$$

=> Ans - (D)

Question 91

Abhinav is 2 times as good a workman as Balwant and therefore is able to finish a job in 36 days less than Balwant. Working together, they can do it in

- A 12 days
- B 6 days
- C 18 days
- D 24 days

Answer: D

Explanation:

Ratio of times taken by Abhinav and Balwant = 1 : 2

The time difference is (2 - 1) 1 day while Balwant take 2 days and Abhinav takes 1 day.

If difference of time is 1 day, Balwant takes 2 days.

If difference of time is 36 days, Balwant takes = $\frac{2}{1} \times 36 = 72$ days

So, Abhinav takes 36 days

Abhinav's 1 day's work = $\frac{1}{36}$

Balwant's 1 day's work = $\frac{1}{72}$

(Abhinav + Balwant)'s 1 day's work together = $\frac{1}{36} + \frac{1}{72} = \frac{3}{72} = \frac{1}{24}$

∴ Abhinav and Balwant together can do the work in = 24 days

=> Ans - (D)

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Question 92

The first and last terms of an arithmetic progression are -23 and 42. What is the sum of the series if it has 14 terms?

- A 91
- B 133
- C 93
- D -133

Answer: B

Explanation:

In an arithmetic progression with first term, $a = -23$, last term, $l = 42$

Number of terms = $n = 14$

∴ Sum of A.P. = $\frac{n}{2}(a + l)$

$$= \frac{14}{2} (-23 + 42)$$

$$= 7 \times 19 = 133$$

=> Ans - (B)

Question 93

What is the equation of the line passing through the point (0,4) and making an angle of 45° with the positive x axis?

A $x + y = 4$

B $x - y = 4$

C $x + y = -4$

D $x - y = -4$

Answer: D

Explanation:

Slope of line making an angle of 45° with the positive x-axis = $\tan(45^\circ)$

=> Slope, $m = 1$

Line is passing through point (0,4)

Equation of line having slope m and passing through (x_1, y_1) is: $(y - y_1) = m(x - x_1)$

$$\Rightarrow (y - 4) = 1(x - 0)$$

$$\Rightarrow y - 4 = x$$

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

=> Ans - (D)

Question 94

In a Rhombus ABCD, measure of angle CAB is 30° , what is the measure of angle ABC?

A 60°

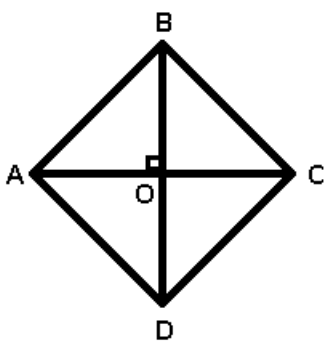
B 120°

C 90°

D 150°

Answer: B

Explanation:



Given : ABCD is a rhombus and $\angle CAB = 30^\circ$

To find : $\angle ABC = ?$

Solution : Diagonals of a rhombus bisect each other at 90° and also bisect the angles of the rhombus.

In $\triangle AOB$

$$\Rightarrow \angle AOB + \angle OBA + \angle BAO = 180^\circ$$

$$\Rightarrow 90^\circ + 30^\circ + \angle OBA = 180^\circ$$

$$\Rightarrow \angle OBA = 180^\circ - 120^\circ = 60^\circ$$

$$\therefore \angle ABC = 2 \times \angle OBA$$

$$= 2 \times 60 = 120^\circ$$

\Rightarrow Ans - (B)

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Question 95

In which of the following quadrilaterals only one pair of opposite angles is supplementary?

- A Isosceles Trapezium
- B Parallelogram
- C Cyclic quadrilateral
- D Rectangle

Answer: C

Explanation:

In rectangle, all angles are 90° and in a parallelogram, adjacent angles are supplementary while in a cyclic quadrilateral only one pair of opposite angles is supplementary.

\Rightarrow Ans - (C)

Question 96

What is the value of $\sqrt{\frac{1 + \sin A}{1 - \sin A}}$?

- A $\sec A - \tan A$
- B $\operatorname{cosec} A + \tan A$
- C $\sec A + \tan A$
- D $\operatorname{cosec} A - \tan A$

Answer: C

Explanation:

$$\text{Expression: } \sqrt{\frac{1 + \sin A}{1 - \sin A}}$$

Multiplying both numerator and denominator by $(\sqrt{1 + \sin A})$

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

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

$$= \frac{1 + \sin A}{\cos A} = \left(\frac{1}{\cos A} + \frac{\sin A}{\cos A} \right)$$

$$= \sec A + \tan A$$

\Rightarrow Ans - (C)

Question 97

Refer the below data table and answer the following question.

	Boys	Girls
Medical	25	70
Engineering	75	35

What percent students who chose Engineering are girls ?

- A 17.07
- B 33.33
- C 46.67
- D 31.82

Answer: D

Explanation:

Number of girls who chose engineering = 35

Total number of engineers = $75 + 35 = 110$

=> Percent of the girls who choose engineering = $\frac{35}{110} \times 100$

= $\frac{350}{11} \approx 31.82\%$

=> Ans - (D)

SSC CHSL Study Material

Question 98

Refer the below data table and answer the following question.

	Cumulative Production
January	600
February	1200
March	1900
April	2310
May	2860
June	3210

How many cars were manufactured in the month of April and May ?

- A 1110
- B 900
- C 960
- D 5170

Answer: C

Explanation:

Number of cars produced in :

January = 600

February = $1200 - 600 = 600$

March = $1900 - 1200 = 700$

April = 2310 - 1900 = 410

May = 2860 - 2310 = 550

June = 3210 - 2860 = 350

=> Number of cars that were manufactured in the month of the April and may = 410 + 550 = 960

=> Ans - (C)

Question 99

Refer the below data table and answer the following question.

Day of the Week	Distance Jogged (in Kms)
Monday	0.5
Tuesday	3
Wednesday	0.5
Thursday	2.5
Friday	2
Saturday	3.5
Sunday	1

If 400 calories are burned by jogging 5km, how many calories were burnt in the given week?

- A 990 calories
- B 1090 calories
- C 1040 calories
- D 940 calories

Answer: C

Explanation:

Total distance jogged in entire week

$$= 0.5 + 3 + 0.5 + 2.5 + 2 + 3.5 + 1 = 13 \text{ km}$$

Calories burned after jogging 5 km = 400 calories

$$\Rightarrow \text{Calories burned after jogging 13 km} = \frac{400}{5} \times 13$$

$$= 80 \times 13 = 1040 \text{ calories}$$

=> Ans - (C)

Question 100

Refer the below data table and answer the following question.

Items	Yearly Expense in Rs lakhs
Raw Materials	9
Labour	7
Rent	4
Interest	3
Taxes	3

Labour and Taxes are what percent of total expenses?

- A 45.71 percent
- B 31.21 percent
- C 23.96 percent
- D 38.46 percent

Answer: D

Explanation:

Yearly expense in labour and taxes (in lakhs) = 7 + 3 = 10

Total expenses (in lakhs) = 9 + 7 + 4 + 3 + 3 = 26

=> Required % = $\frac{10}{26} \times 100$

= $\frac{500}{13} \approx 38.46\%$

=> Ans - (D)

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