



SSC CHSL 2 Feb 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.

Frog : Amphibian :: Cobra : ?

- A Insect
- B Protozoa
- C Parasite
- D Reptiles

Answer: D

Explanation:

A frog lives both on land and water and thus is an amphibian, similarly a cobra crawls, and thus is a *reptile*.

=> Ans - (D)

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Question 2

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

EFGH: LNPR :: ABCD : ?

- A PQRS
- B HJLN
- C HIJK
- D EFGH

Answer: B

Explanation:

Expression = EFGH: LNPR :: ABCD : ?

The pattern followed is :

$$\begin{array}{cccc} +1 & +1 & +1 & \\ \hline E & F & G & H \end{array} \xrightarrow{+4} \begin{array}{cccc} +2 & +2 & +2 & \\ \hline L & N & P & R \end{array}$$

Similarly, for ABCD :

$$\begin{array}{cccc} +1 & +1 & +1 & \\ \hline A & B & C & D \end{array} \xrightarrow{+4} \begin{array}{cccc} +2 & +2 & +2 & \\ \hline H & J & L & N \end{array}$$

=> Ans - (B)

Question 3

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

JS : QH :: VW : ?

- A HM
- B PQ

Question 6

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

- A FLR
- B KQW
- C PIB
- D CIO

Answer: C

Explanation:

(A) : F (+6 letters) = L (+6 letters) = R

(B) : K (+6 letters) = Q (+6 letters) = W

(C) : P (-7 letters) = I (-7 letters) = B

(D) : C (+6 letters) = I (+6 letters) = O

=> Ans - (C)

Question 7

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

- A 6210
- B 7020
- C 1431
- D 1280

Answer: D

Explanation:

Except for 1280, sum of digits of all other numbers is 9, hence 1280 is the odd one out.

=> Ans - (D)

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Question 8

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

- A 86
- B 68
- C 136
- D 102

Answer: A

Explanation:

68, 136 and 102 are multiples of 17, hence 86 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.
RS, ZA, HI, ?

- A LM
- B KL
- C PQ
- D PR

Answer: C

Explanation:

Expression : RS, ZA, HI, ?

The pattern followed in each letter of the terms is :

1st letter : R (+8 letters) = Z (+8 letters) = H (+8 letters) = P

2nd letter : S (+8 letters) = A (+8 letters) = I (+8 letters) = Q

Thus, missing term = **PQ**

=> 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.
PON, LKJ, GFE, ?

- A ABC
- B EFG
- C AZY
- D DEA

Answer: C

Explanation:

Expression : PON, LKJ, GFE, ?

The pattern followed in each letter of the terms is :

1st letter : P (-4 letters) = L (-5 letter) = G (-6 letters) = A

2nd letter : O (-4 letters) = K (-5 letter) = F (-6 letters) = Z

3rd letter : N (-4 letters) = J (-5 letter) = E (-6 letters) = Y

Thus, missing term = **AZY**

=> Ans - (C)

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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.
250, 275, 301, ?

- A 396
- B 328

C 395

D 300

Answer: B

Explanation:

The pattern followed is :

$$250 + 25 = 275$$

$$275 + 26 = 301$$

$$301 + 27 = \mathbf{328}$$

=> Ans - (B)

Question 12

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) Children start writing with a pen in sixth standard.

(II) Ink pen is prescribed by most of the schools for school kids to write with as it maintains the handwriting and comfort of child.

Conclusions:

(I) Till fifth standard kids are unable to use pen on their own completely.

(II) Ink pen maintains a proper flow of ink on paper and takes less effort to put words on paper.

A Only conclusion II follows

B Conclusion I and II both follow

C Neither I nor II follow

D Only conclusion I follows

Answer: C

Explanation:

The given statements indicate that children start writing with a pen in sixth standard, and to maintain the handwriting and comfort, most schools prefer ink pens. This definitely does not mean that up until 5th standard, children are unable to use pens. Also, we cannot conclude whether ink pen maintains a proper flow of ink on paper or takes less effort to put words on paper.

Thus, neither I nor II follow.

=> Ans - (C)

Question 13

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

Millimetre, Micrometre, Nanometre, ?

A Picometre

B Kilometre

C Metre

D Centimetre

Answer: A

Explanation:

The given units are in decreasing order :

Millimetre -> Micrometre -> Nanometre -> Picometre

=> Ans - (A)

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Question 14

A, B, C, D and E are standing in a row. D is the immediate neighbour of A and E. B is at the immediate right of E and C is in the extreme right. Who is fourth to the left of C?

A B

B E

C C

D A

Answer: D

Explanation:

It is given that C is in the extreme right.

D is the immediate neighbour of A and E. B is at the immediate right of E.

=> D sits to the immediate left of E, and A sits second to the left of E.

Thus, Arrangement :

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

∴ A is fourth to the left of C.

=> Ans - (D)

Question 15

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

- i. Shortage
- ii. Shore
- iii. Shamelessly
- iv. Shadiness
- v. Shallow

A iii, iv, v, ii, i

B iv, iii, i, ii, v

C iv, v, iii, ii, i

D iii, iv, ii, i, v

Answer: C

Explanation:

As per the order of dictionary :

= Shadiness -> Shallow -> Shamelessly -> Shore -> Shortage

≡ iv, v, iii, ii, i

=> Ans - (C)

Question 16

In a certain code language, "SPARROW" is written as "1326654", and "RING" is written as "6978". How is "RAINS" written in that code language?

- A 62971
- B 62972
- C 62917
- D 62977

Answer: A

Explanation:

The code for each letter is given :

- R -> 6
- A -> 2
- I -> 9
- N -> 7
- S -> 1

Thus, RAINS : **62971**

=> Ans - (A)

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Question 17

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

36	44	32
72	88	64
54	66	?

- A 44
- B 48
- C 50
- D 64

Answer: B

Explanation:

In each column, the number at the end is the average of other two.

$$\text{Eg :- } \frac{(36+72)}{2} = \frac{108}{2} = 54$$

$$\frac{(44+88)}{2} = \frac{132}{2} = 66$$

$$\text{Similarly, } \frac{(32+64)}{2} = \frac{96}{2} = 48$$

=> Ans - (B)

Question 18

Which of the following interchanges in signs will make the given equation correct?

$$17 - 15 \times 5 = 250$$

- A = and x
- B x and -
- C = and -
- D None of the above.

Answer: B

Explanation:

Expression : $17 - 15 \times 5 = 250$

(A) : = and x

$$\equiv 17 - 15 = 5 \times 250$$

L.H.S. = $2 \neq 1250 =$ R.H.S.

(B) : x and -

$$\equiv 17 \times 15 - 5 = 250$$

L.H.S. = $255 - 5 = 250 =$ R.H.S.

=> Ans - (B)

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?
_k_m_kl_jk_m

- A jljlm
- B ljlm
- C jllmj
- D jllmm

Answer: B

Explanation:

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

= jklm jklm jklm

=> Ans - (B)

SSC CHSL Study Material

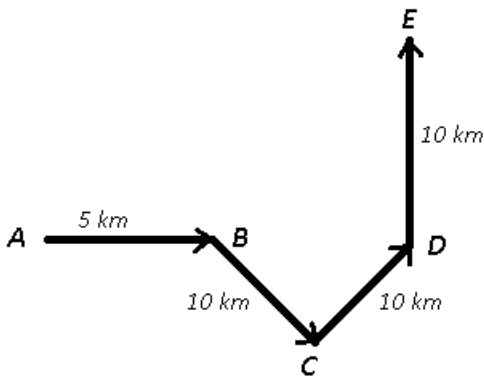
Question 20

Rahul leaves his home and walks 5 km towards east, turns in the south-east direction and walks for 10km, then he turns north-east and moves 10 km. Again, he moves towards the north for 10km. In which direction is he now from starting point?

- A West
- B East
- C North-east
- D North-west

Answer: C

Explanation:



Let Rahul starts from point A and walked 5 km towards east to reach B, then turned south-east and travelled for 10 km and from point C, he travelled another 10 km towards north-east. Finally he walked 10 km north to stop at point E.

Thus, he is in North-east direction from his starting point.

=> 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 S to 9. A letter from these matrices can be represented first by its row and next by its column, for example, 'I' can be represented by 20, 58 etc. and 'A' can be represented by 12, 69 etc. Similarly, you have to identify the set for the word 'ANIMAL'.

Matrix-I

	0	1	2	3	4
0	Y	L	U	A	L
1	K	S	A	O	L
2	J	L	N	L	T
3	V	L	E	F	U
4	D	K	D	U	A

Matrix-II

	5	6	7	8	9
5	Q	M	O	Y	S
6	F	O	D	Z	A
7	N	H	I	O	R
8	J	N	G	Q	O
9	O	R	T	H	I

A 69,22,99,56,23,03

B 69,22,99,56,03,23

C 69,22,98,56,03,23

D 69,22,99,65,03,23

Answer: B

Explanation:

(A) : 69,22,99,56,23,03 = ANIMLA

(B) : 69,22,99,56,03,23 = **ANIMAL**

(C) : 69,22,98,56,03,23 = ANHMAL

(D) : 69,22,99,65,03,23 = ANIFAL

=> Ans - (B)

Question 22

Introducing a boy, Ankit said, " He is the son of daughter of my grandfather's son". How is that boy related to Ankit?

- A Cousin
- B Brother
- C Father-in-law
- D Nephew

Answer: D

Explanation:

Ankit's grandfather's son = Ankit's father

Daughter of Ankit's father = Ankit's sister

Now, that boy is son of Ankit's sister, => Ankit is his uncle.

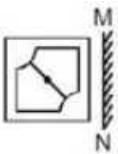
Thus, that boy is Ankit's nephew.

=> 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: B

Explanation:

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





So the left diagonal in the middle will be reversed, thus the third option will be eliminated.

Also, in the question figure, the arcs are at the diagonally opposite ends, hence it will appear same but the position will be reversed, hence second option is the right image.

=> Ans - (B)

Question 24

Identify the diagram that best represents the relationship among the given classes.
Sweets, Sugar, Salt, Jaggery

- A 
- B 
- C 
- D 

Answer: C

Explanation:

Jaggery is a type of sugar and sweets are also made of sugar. Also salt is completely opposite of sugar.

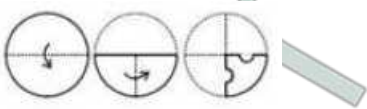
Thus, the venn diagram that best describes above relationship is :







=> Ans - (C)

Question 25

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



- A 
- B 
- C 
- D 

Answer: A

Explanation:

When the paper is unfolded first to the left, a circle will appear on the bottom side of the paper.

When the paper is unfolded again to the top, one circle each will appear on the left side, top side and right side of the paper.

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



Hence, the correct answer is Option A

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General Awareness

Instructions

For the following questions answer them individually

Question 26

is a drug or substance that makes you feel relaxed and makes your body work and react more slowly.

- A Antidote
- B Analgesic
- C Antihistamine
- D Depressant

Answer: D

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Question 27

Carica papaya is the scientific name of .

- A Peepal
- B Papaya
- C Tamarind
- D Drumstick

Answer: B

Question 28

Muscles get tired when there is shortfall of .

- A Lactic acid
- B Na⁺ ions
- C ATP
- D Sulphates

Answer: C

Question 29

The Chemical formula of Ammonium nitrate is .

- A (NH
- B 2NO_3
b: NH_4NO_3
- C $\text{NH}_4(\text{NO}_3)_2$
- D NH_2NO_3

Answer: B

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Question 30

Which of the following elements has the lowest melting point?

- A Xenon
- B Iodine
- C Barium
- D Magnesium

Answer: A

Question 31

Choose odd one out

- A Cyberspace
- B Internet
- C HTML
- D WWW

Answer: C

Question 32

Which of these is not an Indian Musical Instrument?

- A Sitar
- B Bansuri
- C Madal
- D Tanpura

Answer: C

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Question 33

If price of an article decreases from Rs 240 to Rs 220, when quantity demanded increases from 200 units to 210 units. Find point elasticity of demand?

- A 0.6
- B -1.8
- C -0.6
- D 1.8

Answer: C

Question 34

Match the characteristics with their market structure:

(a) Firm has control over quantity of output but it must take into account reactions of competitors. b) Firm will tend to set output so that it earns maximum profits.

- A (a) Oligopoly, (b) Pure competition
- B (a) Monopolistic competition, (b) Oligopoly
- C (a) Pure Monopoly, (b) Pure competition
- D (a) Oligopoly, (b) Pure Monopoly

Answer: D

Question 35

People in all the following countries had to be resettled after the 1986 Chernobyl nuclear disaster, except

- A Kazakhstan
- B Belarus
- C Russia
- D Ukraine

Answer: A

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Question 36

The outermost layer of the earth's atmosphere is .

- A stratosphere
- B troposphere
- C mesosphere
- D exosphere

Answer: D

Question 37

is the first Indian company to list on NASDAQ.

- A Industries Limited
- B Infosys
- C TCS
- D Bharti Airtel

Answer: B

Question 38

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

- A Bharuch
- B Bhopal
- C Nagpur
- D Kota

Answer: A

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Question 39

Which of these countries got Independence from United Kingdom?

- A Uzbekistan
- B Pakistan
- C Venezuela
- D South Korea

Answer: B

Question 40

Aurangzeb, the Mughal Emperor died in?

- A 1507
- B 1607
- C 1707
- D 1807

Answer: C

Question 41

Who Invented Induction Coil?

- A Edwin Howard Armstrong
- B John Barber
- C Edwin Beard Budding
- D Nicholas Callan

Answer: D

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Question 42

Find the power of a convex lens if the image formed is at a distance of 16 cm from the lens when the object is placed on the other side of the lens at 2 cm from the optical centre?

- A -3.75 diopters
- B -11.25 diopters
- C 3.75 diopters
- D 11.25 diopters

Answer: D

Question 43

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

- A weber
- B farad
- C henry
- D tesla

Answer: C

Question 44

In which form of government priests rule in the name of God?

- A Fascism
- B Monarchy
- C Theocracy
- D Oligarchy

Answer: C

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Question 45

Who was the first temporary chairman of the Constituent Assembly?

- A B R Ambedkar
- B Jawahar Lal Nehru
- C Rajendra Prasad
- D Dr. Sachchidananda Sinha

Answer: D

Question 46

Who won the first T-20 Cricket World Cup?

- A West Indies
- B India
- C Australia
- D New Zealand

Answer: B

Question 47

Who is the author of "Chokher

- A Rabindranath Tagore
- B Jhumpa Lahiri
- C Amish Tripathi
- D Chetan Bhagat

Answer: A

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Question 48

Shiva cave is located in .

- A Ajanta Caves
- B Ellora Caves
- C Elephanta Caves
- D Badami Caves

Answer: B

Question 49

Vikas Khanna is an award winning starred Indian chef.

- A Apollo
- B Michelin

C Goodyear

D Viking

Answer: B

Question 50

Triton is the moon of which planet?

A Neptune

B Uranus

C Saturn

D Venus

Answer: A

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Mathematics

Instructions

For the following questions answer them individually

Question 51

Which of the following is correct?

A $(4x - 5y)^2 = 16x^2 - 20xy + 25y^2$

B $(4x - 5y)^2 = 16x^2 + 40xy - 25y^2$

C $(4x - 5y)^2 = 16x^2 - 40xy + 25y^2$

D $(4x - 5y)^2 = 16x^2 - 20xy - 25y^2$

Answer: C

Explanation:

Expression : $(4x - 5y)^2$

$= (4x)^2 + (-5y)^2 + (2 \times 4x \times -5y)$

$= 16x^2 + 25y^2 - 40xy$

=> Ans - (C)

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Question 52

If the radius of a circle is increased by 15% its area increases by .

A 30 percent

B 32.25 percent

C 15 percent

D 16.125 percent

Answer: B

Explanation:

Let radius = 10 cm

$$\Rightarrow \text{Area of circle} = \pi(10)^2 = 100\pi \text{ sq. cm}$$

$$\text{If radius is increased by 15\%, } \Rightarrow \text{New radius} = 10 + \frac{15}{100} \times 10 = 11.5 \text{ cm}$$

$$\text{New area} = \pi(11.5)^2 = 132.25\pi \text{ sq. cm}$$

$$\Rightarrow \% \text{ increase in area} = \frac{132.25 - 100}{100} \times 100$$

$$= 32.25\%$$

\Rightarrow Ans - (B)

Question 53

Ticket for an adult is Rs 1600 and a child is Rs 600. 1 child goes free with two adults. If a group has 17 adults and 7 children what is the discount the group gets?

A 13.37 percent

B 26.02 percent

C 24.41 percent

D 32.2 percent

Answer: A

Explanation:

Cost price of adult ticket = Rs. 1600 and child ticket = Rs. 600

$$\text{For 17 adults and 7 children, total cost} = (17 \times 1600) + (7 \times 600)$$

$$= \text{Rs. } (27,200 + 4,200) = \text{Rs. } 31,400$$

If one child goes free with two adults, \Rightarrow 7 children will go with 14 adults, thus all the children will go for free.

$$\text{Cost of 17 adults} = 17 \times 1600 = \text{Rs. } 27,200$$

$$\text{Discount \%} = \frac{31400 - 27200}{31400} \times 100$$

$$= \frac{4200}{314} = 13.37\%$$

\Rightarrow Ans - (A)

Question 54

When 0.090909.....is converted into a fraction, then the result is

A 1/33

B 1/11

C 2/33

D 6/11

Answer: B

Explanation:

Let $x = 0.090909\dots$ -----(i)

Multiplying both sides by 100

$$\Rightarrow 100x = 9.090909\dots \text{-----(ii)}$$

Subtracting equation (i) from (ii)

$$\Rightarrow 100x - x = (9.090909\dots) - (0.090909\dots)$$

$$\Rightarrow 99x = 9$$

$$\Rightarrow x = \frac{9}{99} = \frac{1}{11}$$

So, 0.090909... written in the form p/q is 1/11

\Rightarrow Ans - (B)

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Question 55

The bus fare between two cities is increased in the ratio 5:11. Find the increase in the fare, if the original fare is Rs. 275.

A Rs 605

B Rs 121

C Rs 330

D Rs 242

Answer: C

Explanation:

Let original fare = Rs. $5x$

\Rightarrow New fare = Rs. $11x$

Also, original fare = $275 = 5x$

$$\Rightarrow x = \frac{275}{5} = 55$$

\therefore Increase in fare = $11x - 5x = 6x$

$$= 6 \times 55 = \text{Rs. } 330$$

\Rightarrow Ans - (C)

Question 56

The difference between simple and compound interests compounded annually on a certain sum of money for 2 years at 9% per annum is Rs 405. The sum is .

A Rs 50000

B Rs 100000

C Rs 200000

D Rs 150000

Answer: A

Explanation:

Let the given sum = Rs. $100x$

Rate of interest = 9% and time period = 2 years

$$\text{Compound interest} = P \left[\left(1 + \frac{R}{100} \right)^T - 1 \right]$$

$$= 100x \left[\left(1 + \frac{9}{100} \right)^2 - 1 \right]$$

$$= 100x \left[\left(\frac{109}{100} \right)^2 - 1 \right] = 100x \left(\frac{11881 - 10000}{10000} \right)$$

$$= \frac{1881x}{100}$$

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

$$= \frac{100x \times 9 \times 2}{100} = 18x$$

$$\Rightarrow \text{Difference between simple and compound interests} = \frac{1881x}{100} - 18x = 405$$

$$\Rightarrow \frac{1881x - 1800x}{100} = 405$$

$$\Rightarrow 81x = 405 \times 100$$

$$\Rightarrow x = \frac{405 \times 100}{81} = 5 \times 100 = 500$$

\(\therefore\) Value of given sum = $100 \times 500 = \text{Rs.}50,000$

Question 57

Which of the following quadratic equations has real roots?

A $4x^2 - 7x + 5 = 0$

B $5x^2 - 11x + 7 = 0$

C $5x^2 - 11x + 8 = 0$

D $2x^2 - 7x + 5 = 0$

Answer: D

Explanation:

A quadratic equation : $ax^2 + bx + c = 0$ has real roots iff Discriminant, $D = b^2 - 4ac \geq 0$

(A) : $4x^2 - 7x + 5 = 0$

$$\Rightarrow D = (-7)^2 - 4(4)(5) = 49 - 80 = -31$$

(B) : $5x^2 - 11x + 7 = 0$

$$\Rightarrow D = (-11)^2 - 4(5)(7) = 121 - 140 = -19$$

(C) : $5x^2 - 11x + 8 = 0$

$$\Rightarrow D = (-11)^2 - 4(5)(8) = 121 - 160 = -39$$

(D) : $2x^2 - 7x + 5 = 0$

$$\Rightarrow D = (-7)^2 - 4(2)(5) = 49 - 40 = 9$$

Thus, the equation : $2x^2 - 7x + 5 = 0$ has real roots.

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Question 58

If $5x + 5 > 2 + 2x$ and $5x + 3 \leq 4x + 5$; then x can take which of the following values?

A 3

B -2

C -3

D 1

Answer: D

Explanation:

Expression 1 : $5x + 5 > 2 + 2x$

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

$\Rightarrow 3x > -3$

$\Rightarrow x > -1$ -----(i)

Expression 2 : $5x + 3 \leq 4x + 5$

$\Rightarrow 5x - 4x \leq 5 - 3$

$\Rightarrow x \leq 2$ -----(ii)

Combining inequalities (i) and (ii), $\Rightarrow -1 < x \leq 2$

Thus, the values that x can take = 0 , 1 , 2

\Rightarrow Ans - (D)

Question 59

The 4th term of an arithmetic progression is 15, 15th term is -29, find the 10th term?

A -5

B -13

C -17

D -9

Answer: D

Explanation:

The n^{th} term of an A.P. = $a + (n - 1)d$, where 'a' is the first term , 'n' is the number of terms and 'd' is the common difference.

4th term, $A_4 = a + (4 - 1)d = 15$

$\Rightarrow a + 3d = 15$ -----(i)

Similarly, 15th term, $A_{15} = a + 14d = -29$ -----(ii)

Subtracting equation (i) from (ii), we get :

$\Rightarrow (14d - 3d) = -29 - 15$

$\Rightarrow d = \frac{-44}{11} = -4$

Substituting it in equation (i), $\Rightarrow a - 12 = 15$

$\Rightarrow a = 15 + 12 = 27$

\therefore 10th term, $A_{10} = a + (10 - 1)d$

$= 27 + (9 \times -4) = 27 - 36 = -9$

\Rightarrow Ans - (D)

Question 60

In what ratio is the segment joining (-1,-12) and (3,4) divided by the x-axis?

A 1:3

B 3:2

C 3:1

D 2:3

Answer: C

Explanation:

Using section formula, the coordinates of point that divides line joining $A = (x_1, y_1)$ and $B = (x_2, y_2)$ in the ratio $a : b$

$$= \left(\frac{ax_2 + bx_1}{a+b}, \frac{ay_2 + by_1}{a+b} \right)$$

Let the ratio in which the segment joining $(-1, -12)$ and $(3, 4)$ divided by the x-axis = $k : 1$

Since, the line segment is divided by x-axis, thus y coordinate of the point will be zero, let the point of intersection = $(x, 0)$

Now, point P $(x, 0)$ divides $(-1, -12)$ and $(3, 4)$ in ratio = $k : 1$

$$\Rightarrow 0 = \frac{(4 \times k) + (-12 \times 1)}{k+1}$$

$$\Rightarrow 4k - 12 = 0$$

$$\Rightarrow k = \frac{12}{4} = 3$$

\therefore Required ratio = $3 : 1$

\Rightarrow Ans - (C)

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Question 61

A can do a work in 20 days and B in 50 days. If they work on it together for 5 days, then what fraction of work is left?

A 13/20

B 1/3

C 1/6

D 2/9

Answer: A

Explanation:

Let total work to be done = 100 units

$$\text{A's efficiency} = \frac{100}{20} = 5 \text{ units/day}$$

$$\text{B's efficiency} = \frac{100}{50} = 2 \text{ units/day}$$

$(A + B)$'s 1 day's work together = $5 + 2 = 7$ units/day

Now, work done by them together in 5 days = $5 \times 7 = 35$ units

\Rightarrow Work left = $100 - 35 = 65$ units

$$\therefore \text{Fraction of work that is left} = \frac{65}{100} = \frac{13}{20}$$

\Rightarrow Ans - (A)

Question 62

At what point does the line $4x - 3y = -6$ intercept the y-axis?

A (0,2)

B $(0, \frac{3}{2})$

C (2,0)

D (3/2,0)

Answer: A

Explanation:

When a line intercepts y-axis at a point, then x-coordinate of that point is 0.

Let the line intercepts y-axis at $(0, y)$

Equation of line = $4x - 3y = -6$

Putting $x = 0$ in above equation, we get :

$$\Rightarrow (4 \times 0) - 3y = -6$$

$$\Rightarrow 3y = 6$$

$$\Rightarrow y = \frac{6}{3} = 2$$

\therefore The line $4x - 3y = -6$ will intercept the y-axis at $(0, 2)$

\Rightarrow Ans - (A)

Question 63

In $\triangle DEF$, G and H are points on side DE and DF respectively. GH is parallel to EF. If G divides DE in the ratio 1:3 and HF is 7.2 cm, find length of DF?

A 2.4 cm

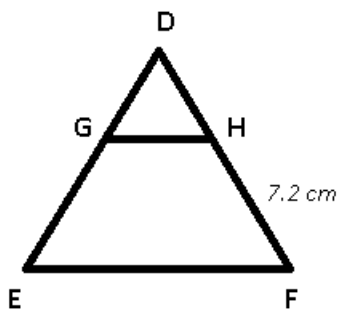
B 4.8 cm

C 3.6 cm

D 9.6 cm

Answer: D

Explanation:



GH is parallel to EF and G divides DE in the ratio 1:3

Let $DG = x$ cm and $GE = 3x$ cm and $HF = 7.2$ cm

$$\Rightarrow \frac{DG}{GE} = \frac{DH}{HF}$$

$$\Rightarrow \frac{x}{3x} = \frac{DH}{7.2}$$

$$\Rightarrow DH = \frac{7.2}{3} = 2.4 \text{ cm}$$

\therefore $DF = DH + HF = 2.4 + 7.2 = 9.6$ cm

\Rightarrow Ans - (D)

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Question 64

The mean of marks secured by 65 students in division A of class X is 54, 30 students of division B is 50 and that of 55 students of division C is 48. Find the mean of marks of the students of three divisions of Class X.

- A 50.3
- B 49.6
- C 51
- D 52.4

Answer: C

Explanation:

Total marks secured by 65 students in division A = $65 \times 54 = 3510$

Total marks secured by 30 students in division B = $30 \times 50 = 1500$

Total marks secured by 55 students in division C = $55 \times 48 = 2640$

=> Mean of marks of the students of three divisions of Class X = $\frac{(3510+1500+2640)}{(65+30+55)}$

$$= \frac{7650}{150} = 51$$

=> Ans - (C)

Question 65

In a triangle the length of the side opposite the right angle is $9\sqrt{3}$ cm, what is the length of the side opposite to the angle which measures 30 degree?

- A 9 cm
- B $3\sqrt{3}$ cm
- C 6 cm
- D $(9\sqrt{3})/2$ cm

Answer: D

Explanation:

In the given triangle, two angles are 30° and 90° , => Third angle = 60°

In a 30-60-90 triangle, the hypotenuse is always twice as long as the side opposite the 30° angle and the side opposite the 60° angle is $\sqrt{3}$ times as long as the side opposite the 30° angle.

The ratio of sides opposite 30° , 60° and 90° angles = $1 : \sqrt{3} : 2$

Length of the side opposite the 90° angle = $9\sqrt{3}$ cm

=> Length of side opposite the 30° angle = $\frac{9\sqrt{3}}{2}$ cm

=> Ans - (D)

Question 66

Two cars travel from city A to city B at a speed of 30 and 44 km/hr respectively. If one car takes 3.5 hours lesser time than the other car for the journey, then the distance between City A and City B is

- A 330 km
- B 396 km

C 495 km

D 264 km

Answer: A

Explanation:

Let the distance between City A and City B = d km

Speed of first car = 30 km/hr and speed of second car = 44 km/hr

Let time taken by first car = t hrs and time taken by second car = $(t - 3.5)$ hrs

Using, speed = distance/time for first car :

$$\Rightarrow \frac{d}{t} = 30$$

$$\Rightarrow d = 30t \text{-----(i)}$$

$$\text{For second car, } \Rightarrow \frac{d}{t-3.5} = 44$$

Substituting value of d from equation (i), we get :

$$\Rightarrow 30t = 44t - 154$$

$$\Rightarrow 44t - 30t = 14t = 154$$

$$\Rightarrow t = \frac{154}{14} = 11 \text{ hrs}$$

$$\text{From equation (i), } \Rightarrow d = 30 \times 11 = 330 \text{ km}$$

\Rightarrow Ans - (A)

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Question 67

Rajeev sells a machine for Rs 55 lakhs at a loss. Had he sold it for Rs 67 lakh, his gain would have been 5 times the former loss. Find the cost price of the machine.

A Rs 65 lakhs

B Rs 57 lakhs

C Rs 78 lakhs

D Rs 49 lakhs

Answer: B

Explanation:

Let cost price of the machine = Rs. x lakhs

When selling price = Rs. 55 lakhs

$$\Rightarrow \text{Loss} = \text{Rs. } (x - 55) \text{ lakhs}$$

If selling price = Rs. 67 lakhs

$$\Rightarrow \text{Profit} = \text{Rs. } (67 - x) \text{ lakhs}$$

According to ques, Profit = $5 \times$ loss

$$\Rightarrow (67 - x) = 5 \times (x - 55)$$

$$\Rightarrow 67 - x = 5x - 275$$

$$\Rightarrow 5x + x = 275 + 67 = 342$$

$$\Rightarrow x = \frac{342}{6} = \text{Rs. } 57 \text{ lakhs}$$

=> Ans - (B)

Question 68

Curved surface area of a cylinder is 528 sq cm. If circumference of its base is 44 cm, find the height of the cylinder?

- A 12 cm
- B 24 cm
- C 36 cm
- D 6 cm

Answer: A

Explanation:

Let radius of base of cylinder = r cm and height = h cm

Circumference of base = $2\pi r = 44$

$$\Rightarrow 2 \times \frac{22}{7} \times r = 44$$

$$\Rightarrow r = 44 \times \frac{7}{44} = 7 \text{ cm}$$

Curved surface area of cylinder = $2\pi rh = 528$

$$\Rightarrow 2 \times \frac{22}{7} \times 7 \times h = 528$$

$$\Rightarrow h = \frac{528}{44} = 12 \text{ cm}$$

=> Ans - (A)

Question 69

What is the value of $\sin 5\pi/3$?

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

Answer: A

Explanation:

Expression : $\sin 5\pi/3$

$$= \sin\left(2\pi - \frac{\pi}{3}\right)$$

$$= -\sin\left(\frac{\pi}{3}\right)$$

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

=> Ans - (A)

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Question 70

$\cos 3A$ is equal to

- A $\cos^3 A - 3\sin^2 \cos A$

B $\cos^3 A + 4\sin^2 \cos A$

C $\cos^3 A + 3\sin^2 \cos A$

D $\cos^3 A - 4\sin^2 \cos A$

Answer: A

Explanation:

Using triple angle formula, we know that : $\cos(3A) = 4\cos^3 A - 3\cos A$

$$= \cos^3 A + (3\cos^3 A - 3\cos A)$$

$$= \cos^3 A + 3\cos A(\cos^2 A - 1)$$

$$= \cos^3 A - 3\cos A(1 - \cos^2 A)$$

$$= \cos^3 A - 3\sin^2 A \cos A$$

=> Ans - (A)

Question 71

2 $\sec^2 A$ is equal to

A $(1 - \tan A)^2 - (1 + \tan A)^2$

B $\sqrt{[(1 - \tan A)^2 + (1 + \tan A)^2]}$

C $\sqrt{[(1 - \tan A)^2 - (1 + \tan A)^2]}$

D $(1 - \tan A)^2 + (1 + \tan A)^2$

Answer: D

Explanation:

Expression : $2 \sec^2 A$

$$= \sec^2 A + \sec^2 A$$

Using, $\sec^2 A = 1 + \tan^2 A$

$$= (1 + \tan^2 A) + (1 + \tan^2 A)$$

Adding and subtracting $2\tan A$

$$= (1 + \tan^2 A - 2\tan A) + (1 + \tan^2 A + 2\tan A)$$

$$= (1 - \tan A)^2 + (1 + \tan A)^2$$

=> Ans - (D)

Question 72

Read the below data table and answer the following questions

	Weight	Height in meter
Anita	56	1.71
Anjali	64	1.52
Anjalika	51	1.72
Anjana	52	1.59

Who has the least weight to height ratio ?

A Anita

B Anjali

- C Anjalika
 D Anjana

Answer: C

Explanation:

Ratio of weight to height

$$\text{Anita} : \frac{56}{1.71} = 32.7$$

$$\text{Anjali} : \frac{64}{1.52} = 42.1$$

$$\text{Anjalika} : \frac{51}{1.72} = 29.6 \quad \text{[LEAST]}$$

$$\text{Anjana} : \frac{52}{1.59} = 32.7$$

=> Ans - (C)

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Question 73

Read the below data table and answer the following questions

Year	Company's % Profit
2011	5
2012	10
2013	20
2014	25
2015	15

What was the revenue of the company if its expenditure was Rs 450 crore in the year when its % profit was the least

- A 472.5
 B 495
 C 517.5
 D 450

Answer: A

Explanation:

Profit % was least in 2011 = 5%

Let revenue = Rs. x crore and expenditure = Rs. 450 crore

$$\Rightarrow \text{Profit \%} = \frac{x-450}{450} \times 100 = 5$$

$$\Rightarrow \frac{x-450}{450} = \frac{5}{100} = \frac{1}{20}$$

$$\Rightarrow x - 450 = \frac{450}{20} = 22.5$$

$$\Rightarrow x = 450 + 22.5 = 472.5 \text{ crore}$$

=> Ans - (A)

Question 74

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

Number of children	Number of houses
0	7
1	9
2	20
3	3

What is the average number of children per house

- A 1.74
- B 1.99
- C 1.24
- D 1.49

Answer: D

Explanation:

Total number of houses = $7 + 9 + 20 + 3 = 39$

Total children = $(0 \times 7) + (1 \times 9) + (2 \times 20) + (3 \times 3)$

= $9 + 40 + 9 = 58$

\therefore Average number of children per house = $\frac{58}{39} = 1.49$

=> Ans - (D)

Question 75

Read the below data table and answer the following question

Partners	Present % share
Anand	5
Basu	10
Chinmay	30
Dhiraj	5
Ejaz	50

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

- A 300000 shares
- B 315000 shares
- C 330000 shares
- D 285000 shares

Answer: B

Explanation:

Total shares = 6,00,000

Original shares with Ejaz = $\frac{50}{100} \times 600000 = 3,00,000$

If Babu offers to sell 15,000 of his shares to Ejaz,

=> Shares with Ejaz = $3,00,000 + 15,000 = 3,15,000$

=> Ans - (B)

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English

Instructions

For the following questions answer them individually

Question 76

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 recession is going to cause times for families who are already struggling to pay their bills.

- A furious
- B agitated
- C turbulent
- D wild

Answer: C

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Question 77

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, "Lie down, Arjun."

- A Mother told lie down Arjun.
- B Mother told Arjun for lying down.
- C Mother asked Arjun to lie down.
- D Mother asked Arjun to be lied down.

Answer: C

Question 78

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

- A a social revolution where negative aspects of a culture are removed
- B to perform mass religious conversions
- C the mass killing of members of one ethnic group
- D removal of all signs of culture from a society

Answer: C

Question 79

Improve the bracketed part of the sentence. I don't want an award (for help to you).

- A to have helped you

- B for helping you
- C for helping to you
- D no improvement

Answer: B

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Question 80

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase. Very rude or coarse; vulgar.

- A gross
- B adipose
- C porcine
- D corpulent

Answer: A

Question 81

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase. To stop doing something; cease or abstain.

- A to endure
- B to desist
- C to persevere
- D to dismay

Answer: B

Question 82

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 have sign over(A)/the cheque, you can(B)/collect it tomorrow.(C)/No error(D)

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

Answer: A

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Question 83

In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.
every cloud has a silver lining

- A no bad situation is permanent
- B if one wants rain then one has to bear with dark clouds
- C every blessing comes with a hidden curse
- D every bad situation has some good aspects to it

Answer: D

Question 84

Rearrange the parts of the sentence in correct order.

It is a crisis which

P-unless policymakers

Q-exercise some intelligence

R-will get even worse

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

Answer: A

Question 85

Improve the bracketed part of the sentence.

Shouts of the crowd cheering the home team now (stuff) the air.

- A fill
- B occupy
- C infest
- D no improvement

Answer: A

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Question 86

Select the word with the correct spelling.

- A dementia
- B quaterain
- C necrosys
- D frenetec

Answer: A

Question 87

Rearrange the parts of the sentence in correct order.

In Tamil nadu,

P-cows and bulls are worshipped and celebrated

Q-on Maattu Pongal,

R-and the finale is Jallikattu

A QRP

B QPR

C PRQ

D RPQ

Answer: B

Question 88

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 seawater eventually corroded the pillars of the bridge.

A Eventually the pillars of the bridge are being corroded by the seawater.

B Eventually the pillars of the bridge have been corroded by the seawater.

C The pillars of the bridge were eventually corroded by the seawater.

D The pillars of the bridge have been eventually corroded by the seawater.

Answer: C

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Question 89

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.

On the trip, we needed a guide to the foreign language for us.

A describe

B illustrate

C mimic

D interpret

Answer: D

Question 90

Select the antonym of to remand

A to filibuster

B to tarry

C to expedite

D to adjourn

Answer: C

Question 91

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'.

He told me the same(A)/story which he told(B)/you yesterday.(C)/No error(D)

A A

B B

C C

D D

Answer: B

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Question 92

Select the synonym of proximal

A frontier

B obscure

C remote

D adjacent

Answer: D

Question 93

Select the antonym of eternity

A perpetuity

B yonder

C aeon

D ephemeral

Answer: D

Question 94

Select the synonym of to alight

A to escalate

B to clamber

C to disembark

D to astride

Answer: C

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Question 95

Select the word with the correct spelling.

A prophesey

B nihilism

C aesthet

D avulusion

Answer: B

Question 96

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 answer to the third question is ----- answered; State leaders-----great willingness to play into the hands of the Central government, presumably for a price.-----the process, representatives have forgotten the history of their own societies. But they fail to-----that history cannot be disremembered, it constantly nudges us to recollect past struggles-----injustice in these States.

The answer to the third question is -----answered

A easily

B easy to

C easy for

D so easy

Answer: A

Question 97

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 answer to the third question is ----- answered; State leaders-----great willingness to play into the hands of the Central government, presumably for a price.-----the process, representatives have forgotten the history of their own societies. But they fail to-----that history cannot be disremembered, it constantly nudges us to recollect past struggles-----injustice in these States.

State leaders-----great willingness to play into the hands of the Central government

A is showing

B have shown

C to show

D have showed

Answer: B

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Question 98

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 answer to the third question is ----- answered; State leaders-----great willingness to play into the hands of the Central government, presumably for a price.-----the process, representatives have forgotten the history of their own societies. But they fail to-----that history cannot be disremembered, it constantly nudges us to recollect past struggles-----injustice in these States.

----- the process, representatives have forgotten the history of their own societies.

- A As
- B So
- C Into
- D In

Answer: D

Question 99

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 answer to the third question is ----- answered; State leaders-----great willingness to play into the hands of the Central government, presumably for a price.-----the process, representatives have forgotten the history of their own societies. But they fail to-----that history cannot be disremembered, it constantly nudges us to recollect past struggles-----injustice in these States.

But they fail to -----that history cannot be disremembered,

- A forget
- B memorize
- C recall
- D by heart

Answer: C

Question 100

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 answer to the third question is ----- answered; State leaders-----great willingness to play into the hands of the Central government, presumably for a price.-----the process, representatives have forgotten the history of their own societies. But they fail to-----that history cannot be disremembered, it constantly nudges us to recollect past struggles-----injustice in these States.

it constantly nudges us to recollect past struggles-----injustice in these States.

- A against
- B for
- C to
- D from

Answer: A

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