



SSC CHSL 24 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.

School: Study :: Laboratory: ?

- A Play
- B Experiment
- C Solve
- D Pray

Answer: B

Explanation:

Expression = School: Study :: Laboratory: ?

Schools are used by students to study, similarly a laboratory is used by scientists to experiment.

=> Ans - (B)

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Question 2

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

COMMANDER : REDNAMMOC :: MANAGEMENT : ?

- A TNEMEGANAM
- B TNEMEGAMAN
- C TENMEGANAM
- D TNMEPANAM

Answer: A

Explanation:

Expression = COMMANDER : REDNAMMOC :: MANAGEMENT : ?

The pattern followed is that the second word is written in *reverse* order, i.e. first letter at the end, second at second last and so on.

Thus, reverse order of MANAGEMENT : **TNEMEGANAM**

=> Ans - (A)

Question 3

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

WEFHY : DVUSB :: SFCLD : ?

- A HUXOW
- B SUSWL
- C SUSLW

Question 6

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

- A XTD
- B TSE
- C MDI
- D SOD

Answer: A

Explanation:

Except XTD, other three contain one vowel, hence it is the odd one out.

=> Ans - (A)

Question 7

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

- A 1232
- B 1188
- C 1320
- D 2050

Answer: D

Explanation:

Except 2050, other three are divisible by 4, hence it 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 4832
- B 7855
- C 6742
- D 5735

Answer: B

Explanation:

The product of first two digits is equal to the last two digits, but $7 \times 8 \neq 55$, hence 7855 is the odd one out.

=> Ans - (B)

Question 9

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

Gamma rays, X-rays, Ultraviolet rays, ? , Infrared rays

- A Microwaves
- B Radio waves
- C Visible light
- D Sonic waves

Answer: C

Explanation:

Electromagnetic waves with frequencies in decreasing order.

= Gama rays -> X-rays -> Ultraviolet rays -> Visible light -> Infrared rays

=> 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.

XT, YU, BX, GC, ?

- A NO
- B NJ
- C NM
- D MN

Answer: B

Explanation:

Expression : XT, YU, BX, GC, ?

The pattern followed in each letter of the terms is :

1st letter : X (+1 letter) = Y (+3 letters) = B (+5 letters) = G (+7 letters) = N

2nd letter : T (+1 letter) = U (+3 letters) = X (+5 letters) = C (+7 letters) = J

Thus, missing term = **NJ**

=> Ans - (B)

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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.

OP, ST, XY, DE, ?

- A KN
- B KL
- C GI
- D WE

Answer: B

Explanation:

Expression : OP, ST, XY, DE, ?

The pattern followed in each letter of the terms is :

1st letter : O (+4 letters) = S (+5 letters) = X (+6 letters) = D (+7 letters) = K

2nd letter : P (+4 letters) = T (+5 letters) = Y (+6 letters) = E (+7 letters) = L

Thus, missing term = **KL**

=> Ans - (B)

Question 12

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

76, 38, 19, 9.5, ?

A 4.25

B 4.15

C 4.69

D 4.75

Answer: D

Explanation:

Each number is divided by 2

$$76 \div 2 = 38$$

$$38 \div 2 = 19$$

$$19 \div 2 = 9.5$$

$$9.5 \div 2 = 4.75$$

=> 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) In the GST Model in India, it would be dual tax (GST) with the center and states simultaneously levying tax on a common base tax.

(II) The central and state GST would be levied on every transaction of supply of goods and services simultaneously.

Conclusions:

(I) This new tax regime would benefit common man of country.

(II) There would be more clarity on state and central component.

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:

From the given statements, there is no information that the new tax regime would benefit common man of country. Hence conclusion I do not follow the given statements.

Similarly, there is no information about conclusion II which may or may not be true. Hence conclusion II do not follow the given statements.

∴ Neither conclusion I nor conclusion II follow the given statements.

Hence, the correct answer is Option C

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Question 14

Rajan and Manu went to a market. Rajan bought 3 erasers and 5 pens for Rs 105 and Manu bought 4 erasers and 6 pens for Rs 130. What is the price of one eraser?

A Rs 25

B Rs 20

C Rs 10

D Rs 19

Answer: C

Explanation:

Let price of 1 eraser = Rs. x and price of 1 pen = Rs. y

According to ques, $\Rightarrow 3x + 5y = 105$ -----(i)

and $4x + 6y = 130$

$\equiv 2x + 3y = 65$ -----(ii)

Now, multiplying equation (i) by 2 and equation (ii) by 3 and subtracting them : $2(i) - 3(ii)$

$\Rightarrow 10y - 9y = 210 - 195$

$\Rightarrow y = 15$

Substituting it in equation (ii), we get : $2x + 3(15) = 65$

$\Rightarrow 2x = 65 - 45 = 20$

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

Thus, price of 1 eraser is Rs. 10

\Rightarrow Ans - (C)

Question 15

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

i. Agent

ii. Argentine

iii. Assiduous

iv. Accentuate

A iii, ii, i, iv

B iv, iii, i, ii

C iv, ii, i, iii

D iv, i, ii, iii

Answer: D

Explanation:

As per the order of dictionary :

= Accentuate -> Agent -> Argentine -> Assiduous

≡ iv, i, ii, iii

=> Ans - (D)

Question 16

In a certain code language, "FIRST" is written as "@#\\$!?" and "EYE" is written as "A*^". How is "TYRE" written in that code language?

A ?*\\$^

B ?*^\\$

C ?**^

D ?*^^

Answer: A

Explanation:

The codes for each letter is given :

T -> ?

Y -> *

R -> \\$

E -> ^

Thus, TYRE : ?*\\$^

=> Ans - (A)

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Question 17

Find the missing number as per given series in table ?

12	13	11
16	17	?
400	458	221

A 10

B 91

C 17

D 81

Answer: A

Explanation:

In each column, the number at the end is obtained by adding the squares of other two numbers.

$$\text{Eg :- } (12)^2 + (16)^2 = 144 + 256 = 400$$

$$(13)^2 + (17)^2 = 169 + 289 = 458$$

$$\text{Similarly, } (11)^2 + (x)^2 = 221$$

$$\Rightarrow x^2 = 221 - 121 = 100$$

$$\Rightarrow x = \sqrt{100} = 10$$

=> Ans - (A)

Question 18

If "A" means "subtraction", "B" means "division", "C" means "addition" and "D" means "multiplication", then

411 B 3 A 29 C 53 D 20 = ?

- A 1169
- B 1156
- C 1168
- D 1163

Answer: C

Explanation:

Expression = 411 B 3 A 29 C 53 D 20 = ?

$$\equiv 411 \div 3 - 29 + 53 \times 20$$

$$= 137 - 29 + 1060$$

$$= 108 + 1060 = 1168$$

=> 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?

PE_NP_ON_EO_

- A PEEN
- B OPEN
- C OEPN
- D OPNE

Answer: C

Explanation:

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

= PEON PEON PEON

=> Ans - (C)

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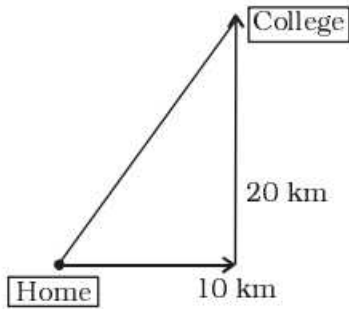
Question 20

Heera starts walking towards the east from her home to go to her college. She walks for 10 km in the east, takes a left turn, walks 20 km further and reaches her college. In which direction is her home with respect to her college?

- A North-West
- B West
- C North
- D South-West

Answer: D

Explanation:



Heera starts walking towards the east from her home for 10 km, then takes a left turn, walks 20 km further towards north and reaches her college.

Thus, her home is south-west of her college.

=> Ans - (D)

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, 'W' can be represented by 21, 23 etc. and 'I' can be represented by 79, 97 etc. Similarly, you have to identify the set for the word 'GERM'.

Matrix 1:

	0	1	2	3	4
0	M	A	R	E	G
1	G	E	M	Q	H
2	U	W	R	W	P
3	G	V	A	P	O
4	M	A	R	Y	I

Matrix 2:

	5	6	7	8	9
5	V	M	P	G	M
6	R	P	E	D	U
7	P	M	G	E	J
8	N	R	E	A	K
9	M	U	J	S	L

A 10, 11, 02, 59

B 04, 87, 31, 76

C 30, 67, 44, 40

D 77, 96, 12, 95

Answer: A

Explanation:

(A) : 10, 11, 02, 59 = GERM

(B) : 04, 87, 31, 76 = GEVM

(C) : 30, 67, 44, 40 = GEIM

(D) : 77, 96, 12, 95 = GUMM

=> Ans - (A)

Question 22

Introducing a girl, a boy says, "She is the daughter of my father's only brother-in-law". How is the girl related to the boy?

- A Sister-in-law
- B Granddaughter
- C Cousin
- D Daughter

Answer: C

Explanation:

Boy's father's only brother-in-law = Boy's maternal uncle

Daughter of boy's uncle = boy's cousin

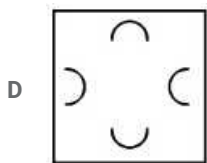
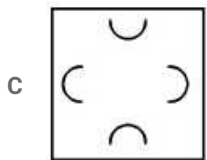
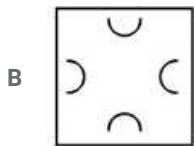
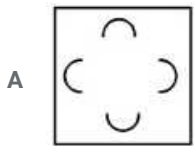
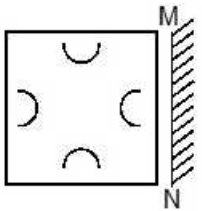
Thus, the girl is that boy's cousin.

=> Ans - (C)

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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?



Answer: B

Explanation:

If a mirror is placed on the line MN,

The facing of the figure to the left and right direction changes to opposite direction in mirror image(right facing changes to left and vice versa)

The curve facing to the right faces left in the mirror image

The curve facing to the left faces right in the mirror image

∴ The mirror image of the given figure is

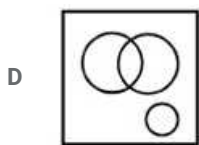
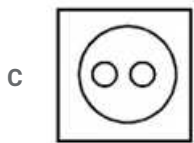
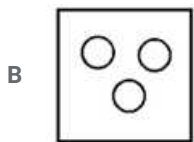
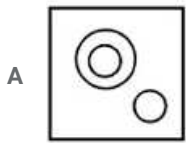


Hence, the correct answer is Option B

Question 24

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

Science, Physics, Chemistry

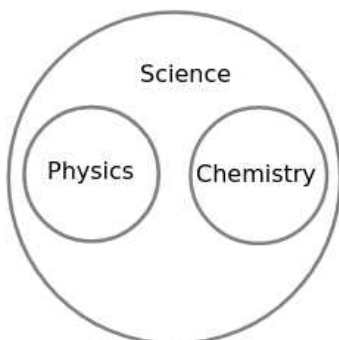


Answer: C

Explanation:

Physics and Chemistry are different subjects which come under Science

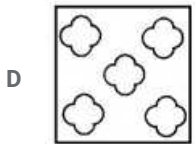
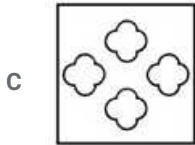
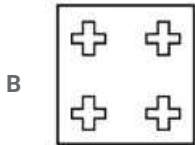
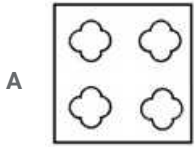
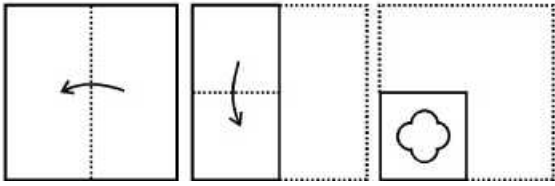
∴ The diagram that best represents the relationship between them is



Hence, the correct answer is Option C

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.



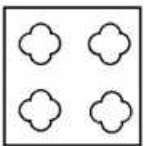
Answer: A

Explanation:

When the paper is unfolded first to the top, similar figure will appear at the top part.

When the paper is unfolded again to the right, two similar figures will appear one each at the top right and bottom right part of the paper.

∴ When the paper is opened 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

Diwane-i-khas is in which of these monuments?

A Humayun's Tomb

B Mahabodhi Temple Complex

- C Qutub Minar
- D Red Fort Complex

Answer: D

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Question 27

Who won the 2016 men's singles Wimbledon Championship?

- A Novak Djokovic
- B Andy Murray
- C Roger Federer
- D Milos Raonic

Answer: B

Question 28

Deficiency of which vitamin causes night blindness?

- A Vitamin K
- B Vitamin C
- C Vitamin B1
- D Vitamin A

Answer: D

Question 29

The flower with the world's largest bloom is ____.

- A Pando
- B Posidonia
- C Rafflesia arnoldii
- D Helianthus annuus

Answer: C

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Question 30

Name the scientist who proposed the cell theory

- A Schleiden and Schwann
- B Lamarck
- C Treviranus

D Whittaker and Stanley

Answer: A

Question 31

_____ decreases the rate of setting of cement.

A Alumina

B Silica

C Gypsum

D Magnesium oxide

Answer: C

Question 32

Alkenes were earlier known as _____.

A Paraffins

B Titoffins

C Olefins

D Meloffins

Answer: C

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Question 33

A language used to control the tasks of the computer itself, such as starting other programs, is _____.

A Command Language

B Machine Language

C Markup Language

D Style Sheet Language

Answer: A

Question 34

Munda is a folk dance of _____.

A Arunachal Pradesh

B Jharkhand

C Chhattisgarh

D Haryana

Answer: B

Question 35

In 2015, the nominal rate of interest in a country was 8% and the inflation rate then was 2.5%. So real rate of interest in 2015 was

- A 3.2 percent
- B 10.5 percent
- C 8 percent
- D 5.5 percent

Answer: D

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Question 36

Macro economics deals with

- A the circular flow of income
- B the decision making of a single economic variable like demand
- C resource allocation at firm level
- D equilibrium prices and quantities

Answer: A

Question 37

The Ozone layer is present in which atmospheric layer?

- A Lithosphere
- B Ionosphere
- C Stratosphere
- D Biosphere

Answer: C

Question 38

Organisms that use light to prepare food are known as ____.

- A Autotrophs
- B Heterotrophs
- C Omnivores
- D Decomposers

Answer: A

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Question 39

Which of the following will not be traded in a commodity market?

- A Crude oil
- B Silver
- C Currency
- D Gold

Answer: C

Question 40

Panaji is the capital of which Indian State?

- A Chattisgarh
- B Goa
- C Himachal Pradesh
- D Jharkhand

Answer: B

Question 41

Lucknow is the Capital City of _____.

- A Uttarakhand
- B Uttar Pradesh
- C Tripura
- D Arunachal Pradesh

Answer: B

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Question 42

During the Independence Movement, Subhash Chandra Bose revamped the Indian National _____.

- A Navy
- B Army
- C Defence
- D Air Force

Answer: B

Question 43

Aurangzeb was the son of _____.

- A Babur
- B Humayun
- C Akbar
- D Shah Jahan

Answer: D

Question 44

World Wide Web was invented by _____.

- A John Barber
- B Tim Berners-Lee
- C Alan Blumlein
- D David Brewster

Answer: B

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Question 45

Which among the following is false about viscosity?

- A Viscosity of gases is less than that of liquids
- B Viscosity of gases increases with rise in temperature
- C Viscosity of liquid decreases with rise in temperature
- D Viscosity of liquid decreases with increase in pressure

Answer: D

Question 46

Weight (W) of a body is derived from which formula ?

- A $W=mv$
- B $W=mf$
- C $W=ms$
- D $W=mg$

Answer: D

Question 47

Narendra Modi is the ___ Prime Minister of India.

- A 5th
- B 10th

C 14th

D 18th

Answer: C

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Question 48

Who was the first Speaker of Lok Sabha?

A G. V. Mavalankar

B Sarvepalli Radhakrishnan

C M. Ananthasayanam Ayyangar

D Dr P V Cherian

Answer: A

Question 49

Who is the winner of the first Indian Super League football?

A Atletico de Kolkata

B Kerala Blasters

C FC Goa

D Delhi Dynamos FC

Answer: A

Question 50

Who wrote the book "Walking with Lions"?

A K Natwar Singh

B Kapil Dev

C Kiran Bedi

D Sarojini Naidu

Answer: A

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English

Instructions

For the following questions answer them individually

Question 51

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 student body met the Principal to have their _____ heard.

- A griefs
- B disdain
- C woes
- D sorrows

Answer: C

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Question 52

Select the word with the correct spelling.

- A excusing
- B begared
- C redulent
- D imortal

Answer: A

Question 53

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

- A staying together is the secret to successfully navigating the ups and downs of life
- B In a group, one's situation is tied up with the situation of the rest.
- C There is false sense of safety in a large group
- D To be in the same unpleasant situation as other people

Answer: D

Question 54

Select the antonym of
antique

- A obsolote
- B superannuated
- C current
- D ancient

Answer: C

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Question 55

Select the word with the correct spelling.

- A feriest
- B meditate
- C diuratic
- D farments

Answer: B

Question 56

Select the antonym of void

- A destitute
- B scant
- C bereft
- D adequate

Answer: D

Question 57

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.

Nations work to expand justice in the society and provide infrastructure to _____ commerce.

- A pass
- B contribute
- C popularize
- D promote

Answer: D

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Question 58

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.

"Please give me something to eat. I am hungry" the beggar said to them.

- A The beggar requested them to give him something to eat and said that he was hungry.
- B The beggar requested them to give him something to eat and said he was hungry.

C The beggar while requesting them to give him something to eat and says he was hungry.

D The beggar while requesting them to give him something to eat and says he is hungry.

Answer: A

Question 59

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase. to make (someone) anxious or unsettled.

A to pester

B to perturb

C to bug

D to ruffle

Answer: B

Question 60

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'.

Had anybody(A)/ever told you(B)/that you're beautiful?(C)No error(D)

A A

B B

C C

D D

Answer: A

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Question 61

Select the synonym of to scam

A to cluster

B to array

C to convene

D to scoot

Answer: D

Question 62

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

A The new person in a group gets the most attention

- B Learning a new language is very difficult
- C Saying that one does not understand something that is said or written
- D Everything is new when one is in a new country

Answer: C

Question 63

Improve the bracketed part of the sentence.

There is no more (accommodation) for you in this bus.

- A room
- B seat
- C space
- D no improvement

Answer: B

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Question 64

**Select the synonym of
to gnaw**

- A to drool
- B to slaver
- C to nibble
- D to spit

Answer: C

Question 65

Rearrange the parts of the sentence in correct order.

Despite this high-level political

P-have achieved little

Q-these summits

R-attention, and fanfare,

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

Answer: B

Question 66

Improve the bracketed part of the sentence.

By the end of this decade, doctors surely (must have discover) a cure for cancer.

- A would have discovered
- B could discover
- C have discovered
- D no improvement

Answer: A

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Question 67

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase.
to depart from an established course

- A to deviate
- B to whirl
- C to err
- D to wander

Answer: A

Question 68

Rearrange the parts of the sentence in correct order:

They also need help
P-rains have failed, and
Q-agricultural production will fall drastically
R-just now, because

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

Answer: A

Question 69

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'.

Go up the beach and watch for tourists (A)/so you could warn anyone(B)/before they get to the water.(C)No error(D)

- A A
- B B

C C

D D

Answer: B

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Question 70

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.

My father decorated the entire house.

- A The entire house was decorated by my father.
- B The entire house was being decorated by my father.
- C The entire house has been decorated by my father.
- D The entire house had been decorated by my father.

Answer: A

Explanation:

Start Group:

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.

This argument is completely _____(1)_____ and shows very little understanding _____(2)_____ education. The costs quoted for private schools, one, have no reliable source of data and, _____(3)_____, they discount two kinds of hidden costs – to the family and _____(4)_____ the nation. Often the cost of education in private schools is _____(5)_____ with the fee per child.

Question 71

This argument is completely _____

- A incredible
- B spurious
- C amazing
- D inadequate

Answer: B

Question 72

shows very little understanding _____ education.

- A of
- B for
- C with
- D toward

Answer: A

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Question 73

one, have no reliable source of data and, _____, they discount two kinds of hidden costs

- A twice
- B both
- C two
- D secondly

Answer: C

Question 74

to the family and _____ the nation.

- A to
- B of
- C for
- D about

Answer: A

Question 75

Often the cost of education in private schools is _____ with the fee per child.

- A equation
- B equates
- C equating
- D equated

Answer: D

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Mathematics

Instructions

For the following questions answer them individually

Question 76

Of the 3 numbers whose average is 112, the first is $\frac{3}{13}$ times the sum of other 2. The first number is ____.

- A 63
- B 95
- C 42

D 126

Answer: A

Explanation:

Let the three numbers be x, y, z

$$\text{Sum of three numbers} = x + y + z = 112 \times 3 = 336$$

$$\text{According to ques, } \Rightarrow x = \frac{3}{13} \times (y + z)$$

$$\Rightarrow x = \frac{3}{13} \times (336 - x)$$

$$\Rightarrow 13x = 1008 - 3x$$

$$\Rightarrow 13x + 3x = 16x = 1008$$

$$\Rightarrow x = \frac{1008}{16} = 63$$

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Question 77

If a merchant offers a discount of 20% on the list price, then he makes a loss of 10%. What % profit or % loss will she make if he sells at a discount of 5% of the list price?

A 6.875 percent profit

B 20 percent profit

C 14 percent profit

D 30 percent loss

Answer: A

Explanation:

Let list price = Rs. $100x$

$$\text{After 20\% discount, selling price} = \frac{80}{100} \times 100x = \text{Rs. } 80x$$

Let Cost price = Rs. y

$$\Rightarrow \text{Loss \%} = \frac{y - 80x}{y} \times 100 = 10$$

$$\Rightarrow \frac{y - 80x}{y} = \frac{10}{100} = \frac{1}{10}$$

$$\Rightarrow 10y - 800x = y$$

$$\Rightarrow 10y - y = 800x$$

$$\Rightarrow y = \frac{800x}{9} = 88.89x$$

$$\text{If discount} = 5\%, \Rightarrow \text{Selling price} = \frac{95}{100} \times 100x = \text{Rs. } 95x$$

$$\therefore \text{Profit \%} = \frac{95x - 88.89x}{88.89x} \times 100$$

$$\approx 6.875\%$$

Question 78

Coefficient of x in $(x + 11)(3 - 5x)$ is ____.

A 33

B -5

C 3

D -52

Answer: D

Explanation:

Expression : $(x + 11)(3 - 5x)$

$$= 3x - 5x^2 + 33 - 55x$$

$$= -5x^2 - 52x + 33$$

∴ Coefficient of x in above equation = -52

⇒ Ans - (D)

Question 79

A does 80% of a work in 20 days. He then calls in B and they together finish the remaining work in 3 days. How long B alone would take to do the whole work?

A 75 days

B 37.5 days

C 17.5 days

D 35 days

Answer: B

Explanation:

$$\text{Work done by A in 20 days} = \frac{80}{100} = \frac{4}{5}$$

$$\text{Work done by A in 1 day} = \frac{\frac{4}{5}}{20} = \frac{4}{100} = \frac{1}{25}$$

$$\text{Work done by A and B in 3 days} = \frac{20}{100} = \frac{1}{5} \text{ (Because remaining 20\% is done in 3 days by A and B)}$$

$$\text{Work done by A and B in 1 day} = \frac{1}{15}$$

$$\text{Work done by B in 1 day} = \frac{1}{15} - \frac{1}{25} = \frac{2}{75}$$

$$\Rightarrow \text{B can complete the work in } \frac{75}{2} \text{ days} = 37.5 \text{ days}$$

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Question 80

What is the HCF (highest common factor) of 77 and 275?

A 12

B 11

C 7

D 25

Answer: B

Explanation:

Factors of : 77 = 1, 7, 11, 77

275 = 1, 5, 11, 25, 55, 275

The common factors are 1 and 11

and HCF = 11

=> Ans - (B)

Question 81

To travel 648 km, an Express train takes 12 hours more than Rajdhani. If however, the speed of the Express train is doubled, it takes 6 hours less than Rajdhani. The speed of Rajdhani is _____.

A 36 km/hr

B 18 km/hr

C 45 km/hr

D 27 km/hr

Answer: D

Explanation:

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

Using, time = distance/speed

$$\text{Acc. to ques, } \Rightarrow \frac{648}{y} - \frac{648}{x} = 12$$

$$\Rightarrow \frac{1}{y} - \frac{1}{x} = \frac{12}{648} = \frac{1}{54} \text{ -----(i)}$$

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

$$\Rightarrow \frac{648}{x} - \frac{648}{2y} = 6$$

$$\Rightarrow \frac{1}{x} - \frac{1}{2y} = \frac{6}{648} = \frac{1}{108} \text{ -----(ii)}$$

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

$$\Rightarrow \frac{1}{y} - \frac{1}{2y} = \frac{1}{54} + \frac{1}{108}$$

$$\Rightarrow \frac{1}{2y} = \frac{3}{108}$$

$$\Rightarrow y = \frac{108}{6} = 18 \text{ km/hr}$$

$$\therefore \text{Speed of Rajdhani} = \frac{1}{x} = \frac{1}{18} - \frac{1}{54}$$

$$\Rightarrow \frac{1}{x} = \frac{2}{54} = \frac{1}{27}$$

$$\Rightarrow x = 27 \text{ km/hr}$$

Question 82

A trader had 16 quintals of wheat. He sold a part of it at 17% profit and the rest at 27% profit, so that he made a total profit of 21%. How much wheat did he sell at 27% profit?

A 960 kg

B 640 kg

C 320 kg

D 1280 kg

Answer: B

Explanation:

1 quintal = 100 kg => 16 quintals = 1600 kg

Let the part he sold at 27% profit = x kg

=> Part he sold at 17% profit = $(1600 - x)$ kg

Total profit made by the trader = 21%

=> $27x + 17(1600 - x) = 21 \times 1600$

=> $27x + (17 \times 1600) - 17x = 21 \times 1600$

=> $10x = 1600 \times (21 - 17)$

=> $x = 160 \times 4 = 640$ kg

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Question 83

The brother is elder to his sister by 6 years. Seven years ago the product of their ages was 72. What is the age of the brother?

A 13 years

B 12 years

C 6 years

D 19 years

Answer: D

Explanation:

Let age of brother = x years

=> Age of sister = $(x - 6)$ years

Product of their ages 7 years ago = $(x - 7) \times (x - 13) = 72$

=> $x^2 - 13x - 7x + 91 - 72 = 0$

=> $x^2 - 20x + 19 = 0$

=> $x^2 - x - 19x + 19 = 0$

=> $x(x - 1) - 19(x - 1) = 0$

=> $(x - 1)(x - 19) = 0$

=> $x = 1, 19$

Since, $x \neq 1$, => Age of brother = 19 years

Question 84

If Girish's salary is $\frac{4}{9}$ times of Harishankar's and Shirish's salary is $\frac{5}{6}$ times of Harishankar's, what is the ratio of Girish's salary to Shirish's.

A 27:10

B 10:27

C 8:15

D 15:8

Answer: C

Explanation:

Let Harishankar's salary = $18x$

$$\Rightarrow \text{Girish's salary} = \frac{4}{9} \times 18x = 8x$$

$$\Rightarrow \text{Shirish's salary} = \frac{5}{6} \times 18x = 15x$$

$$\therefore \text{Ratio of Girish's salary to Shirish's} = \frac{8x}{15x}$$

$$= 8 : 15$$

Question 85

If $5 - x > 1 + 3x$ and $5 + 5x \geq 2 + 2x$; then x can take which of the following values?

A 2

B -2

C 3

D 0

Answer: D

Explanation:

Expression (i) : $5 - x > 1 + 3x$

$$\Rightarrow 3x + x < 5 - 1, \Rightarrow 4x < 4$$

$$\Rightarrow x < 1$$

Expression (ii) : $5 + 5x \geq 2 + 2x$

$$\Rightarrow 5x - 2x \geq 2 - 5, \Rightarrow 3x \geq -3$$

$$\Rightarrow x \geq -1$$

Combining above equations, we get $-1 \leq x < 1$

Thus, x can be either -1 or 0

\Rightarrow Ans - (D)

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Question 86

Find the value of p , if $2x - 4$, $4x + p$ and $6x - 12$ are in arithmetic progression.

A -9

B -10

C -11

D -8

Answer: D

Explanation:

Terms in arithmetic progression : $(2x - 4)$, $(4x + p)$, $(6x - 12)$

\Rightarrow Difference between first two terms is equal to the difference between last two terms

$$\Rightarrow (4x + p) - (2x - 4) = (6x - 12) - (4x + p)$$

$$\Rightarrow 2x + p + 4 = 2x - 12 - p$$

$$\Rightarrow 2p = -12 - 4 = -16$$

$$\Rightarrow p = \frac{-16}{2} = -8$$

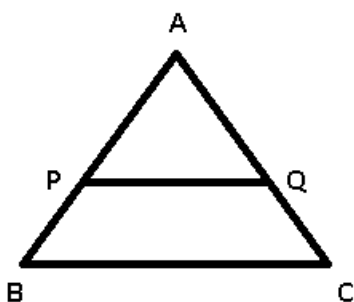
Question 87

Points P and Q lie on side AB and AC of triangle ABC respectively such that segment PQ is parallel to side BC. If the ratio of areas of triangle APQ: triangle ABC is 16:25. Then the ratio of AP:PB is?

- A 4:5
- B 1:4
- C 5:1
- D 4:1

Answer: D

Explanation:



PQ is parallel to BC angle A is common, thus $\triangle APQ \sim \triangle ABC$

In two similar triangles, the ratio of their areas is equal to the square of the ratio of their sides.

$$\Rightarrow \left(\frac{AP}{AB}\right)^2 = \frac{ar(\triangle APQ)}{ar(\triangle ABC)}$$

$$\Rightarrow \frac{AP}{AB} = \sqrt{\frac{16}{25}} = \frac{4}{5}$$

Also, $PB = AB - AP = 5 - 4 = 1$

$$\Rightarrow \frac{AP}{PB} = \frac{4}{1} = 4:1$$

Question 88

Which of the following points lies on the line $3x - 4y = -13$?

- A (-5,-7)
- B (5,7)
- C (-5,7)
- D (5,-7)

Answer: B

Explanation:

The point that satisfies the equation $3x - 4y = -13$ lies on it

$$(A) : (-5,-7) : (3 \times -5) - (4 \times -7) = 13$$

$$(B) : (5,7) : (3 \times 5) - (4 \times 7) = -13 = \text{R.H.S.}$$

$$(C) : (-5,7) : (3 \times -5) - (4 \times 7) = -43$$

$$(D) : (5,-7) : (3 \times 5) - (4 \times -7) = 43$$

\Rightarrow Ans - (B)

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Question 89

A man spends 59% of his income and saves the rest. What percentage of his expenditure does he save?

- A 72.57 percent
- B 83.19 percent
- C 89.09 percent
- D 69.49 percent

Answer: D

Explanation:

Let total income of man = $Rs.100x$

Amount spent = $\frac{59}{100} \times 100x = Rs.59x$

\Rightarrow Money saved = $100x - 59x = 41x$

\therefore Percentage of his expenditure that he saves = $\frac{41x}{59x} \times 100$

= 69.49 %

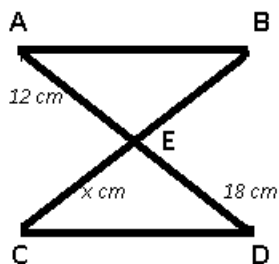
Question 90

Line segment AB is parallel to line segment CD. AD intersects BC in E. If lengths of AE, BC and ED are 12 cm, 12 cm and 18 cm respectively, what is the length of EC?

- A 4.8 cm
- B 9.3 cm
- C 8.1 cm
- D 7.2 cm

Answer: D

Explanation:



$BC = 12 \text{ cm}, \Rightarrow BE = (12 - x) \text{ cm}$

AB is parallel to CD, $\Rightarrow \angle BAE = \angle CDE$ and $\angle ABE = \angle DCE$

$\Rightarrow \triangle ABE \sim \triangle CDE$

$\Rightarrow \frac{AE}{DE} = \frac{BE}{CE}$

$\Rightarrow 12 = \frac{12-x}{x}$

$\Rightarrow 3 = \frac{12-x}{x}$

$\Rightarrow 2x = 36 - 3x$

$$\Rightarrow x = \frac{36}{5} = 7.2 \text{ cm}$$

Question 91

In a triangle the length of the side opposite the angle which measures 60° is 15 cm, what is the length of the side opposite to the angle which measures 90° ?

- A 15 cm
- B $15\sqrt{2}$ cm
- C $10\sqrt{3}$ cm
- D 10 cm

Answer: C

Explanation:

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

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 60° angle = 15 cm

\Rightarrow Length of side opposite the 90° angle = $\frac{2}{\sqrt{3}} \times 15 = 10\sqrt{3}$ cm

\Rightarrow Ans - (C)

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Question 92

A sum fetched a total simple interest of Rs 5320 at the rate of 7% per year in 5 years. What is the sum?

- A Rs 18240
- B Rs 12160
- C Rs 15200
- D Rs 9120

Answer: C

Explanation:

Let the sum = Rs. x

Rate of interest = 7% and time = 5 years

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

$$\Rightarrow \frac{x \times 7 \times 5}{100} = 5320$$

$$\Rightarrow x = 5320 \times \frac{20}{7}$$

$$\Rightarrow x = 760 \times 20 = \text{Rs. } 15,200$$

Question 93

Curved surface area of a cylinder is 660 sq cm. If circumference of its base is 44 cm, find the volume of the cylinder?

- A 4620 cubic cm

- B 2310 cubic cm
- C 6930 cubic cm
- D 1155 cubic cm

Answer: B

Explanation:

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

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

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

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

Curved surface area of cylinder = $2\pi rh = 660$

$$\Rightarrow 2 \times \frac{22}{7} \times 7 \times h = 660$$

$$\Rightarrow 2 \times 22h = 660$$

$$\Rightarrow h = \frac{660}{44} = 15 \text{ cm}$$

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

$$= \frac{22}{7} \times (7)^2 \times 15$$

$$= 22 \times 7 \times 15 = 2310 \text{ cm}^3$$

Question 94

What is the value of $\cos 11\pi/6$?

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

Answer: D

Explanation:

Expression : $\cos 11\pi/6$

$$= \cos(2\pi - \frac{\pi}{6})$$

$$= \cos \frac{\pi}{6} = \frac{\sqrt{3}}{2}$$

\Rightarrow Ans - (D)

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Question 95

$\cos 3A$ is equal to

- A $4\cos^3 A + 3\cos A$
- B $4\cos^3 A - 3\cos A$
- C $3\cos^3 A - 4\cos A$

D $3\cos^3 A + 4\cos A$

Answer: B

Explanation:

We know that $\cos(x + y) = \cos x \cdot \cos y - \sin x \cdot \sin y$

Also, $\cos 2x = 2\cos^2 x - 1$ and $\sin 2x = 2\sin x \cdot \cos x$

Expression : $\cos 3A = \cos(2A + A)$

$$= \cos 2A \cdot \cos A - \sin 2A \cdot \sin A$$

$$= (2\cos^2 A - 1)\cos A - (2\sin A \cdot \cos A)\sin A$$

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

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

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

$$= 4\cos^3 A - 3\cos A$$

Question 96

$\cos A / (1 - \sin A)$ is equal to

A $(\sec A - \tan A)$

B $(\sec A + \tan A)$

C $\sqrt{(\sec A + \tan A)}$

D $\sqrt{(\sec A - \tan A)}$

Answer: B

Explanation:

Expression : $\cos A / (1 - \sin A)$

Multiplying numerator and denominator by $(1 + \sin A)$

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

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

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

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

Question 97

Read the data and answer the given questions

	Weight	Height in Meters
Sunit	60	1.5
Anjali	55	1.2
Vimala	75	1.6
Preeti	70	1.4

Who was the least weight to height ratio ?

A Sunita

B Anjali

C Vimla

D Preeti

Answer: A

Explanation:

Ratio of weight to height

$$\text{Sunita} : 1.5 = \frac{60}{1.5} = 40 \quad \text{[LEAST]}$$

$$\text{Anjali} : 1.2 = \frac{55}{1.2} = 45.83$$

$$\text{Vimala} : 1.6 = \frac{75}{1.6} = 46.875$$

$$\text{Preeti} : 1.4 = \frac{70}{1.4} = 50$$

=> Ans - (A)

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Question 98

Read the table and answer the given Questions

Years	Company's Profit
2011	5
2012	15
2013	25
2014	10
2015	10

What was the Revenue of the company if its Expenditure was Rs 200 crore in the year when its % profit was the least?

A 210

B 220

C 230

D 200

Answer: A

Explanation:

Profit % was least in 2011 = 5%

Let revenue = Rs. x crore and expenditure = Rs. 200 crore

$$\Rightarrow \text{Profit \%} = \frac{x-200}{200} \times 100 = 5$$

$$\Rightarrow \frac{x-200}{200} = \frac{5}{100} = \frac{1}{20}$$

$$\Rightarrow x - 200 = \frac{200}{20} = 10$$

$$\Rightarrow x = 200 + 10 = 210 \text{ crore}$$

=> Ans - (A)

Question 99

Read the data and answer the given questions

No of Children	No of Houses
0	3
1	13
2	18
3	3

What average number of children per house?

- A 2.07
- B 1.82
- C 1.57
- D 1.32

Answer: C

Explanation:

Total number of houses = $3 + 13 + 18 + 3 = 37$

Total children = $(0 \times 3) + (1 \times 13) + (2 \times 18) + (3 \times 3)$
 $= 13 + 36 + 9 = 58$

\therefore Average number of children per house = $\frac{58}{37} = 1.57$

=> Ans - (C)

Question 100

Read the data and answer the given Questions ?

Partners	Present % Share
Anand	25
Basu	5
Chinmay	25
Dhiraj	20
Ejaz	25

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

- A 165000 shares
- B 150000 shares
- C 180000 shares
- D 135000 shares

Answer: A

Explanation:

Total shares = 6,00,000

Original shares with Ejaz = $\frac{25}{100} \times 600000 = 1,50,000$

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

=> Shares with Ejaz = $1,50,000 + 15,000 = 1,65,000$

=> Ans - (A)

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