



SSC CHSL 22 Jan 2017 Evening Shift

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Instructions

For the following questions answer them individually

Question 1

Select the synonym of pal

- A buddy
- B lad
- C foe
- D dude

Answer: A

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Question 2

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase. having a sensation of whirling and a tendency to fall or stagger

- A volatile
- B wild
- C reckless
- D giddy

Answer: D

Question 3

Improve the bracketed part of the sentence.
(It is no good to cry) over past failures.

- A It is of no good crying
- B It is of no good to cry
- C It is no good crying
- D no improvement

Answer: C

Question 4

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'.

Sairat is one of the latest(A)/in the list of contemporary Marathi movies(B)/which appeared in recent times.(C)/No error(D)

- A A
- B B
- C C

D D

Answer: C

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Question 5

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.

A month before he was scheduled to be hanged from the, the president granted him clemency.

A gallows

B balcony

C stands

D frame

Answer: A

Question 6

In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase. If you can't beat 'em, join 'em

A Many times those who fight eventually become best of friends

B If one has to give up fighting with some group because one can't win, band together with them

C Not to hurt others. Instead, be friends with them.

D To fight till you get acceptance to a group which does not initially accept you as a member

Answer: B

Question 7

Select the antonym of bequeath

A receive

B impart

C bestow

D entrust

Answer: A

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Question 8

Choose the antonym of stun

A petrify

B calm

C flabbergast

D stupefy

Answer: B

Question 9

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.

Preeti ran the race in record time.

A In record time Preeti ran the race.

B The race was run by Preeti in record time.

C The race was being run by Preeti in record time.

D The race had been ran by Preeti in record time.

Answer: B

Question 10

Improve the bracketed part of the sentence.

I went to sleep last night, (almost as soon as) my head hit the pillow.

A no sooner then

B as quickly as

C almost as quickly as

D no improvement

Answer: D

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Question 11

Select the word with the correct spelling.

A aplauds

B neonaetes

C bestiary

D pinnioned

Answer: C

Question 12

In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.
All good things must come to an end

A Even enjoyable experiences cannot last for ever

B A good story should always have a happy ending

- C The world will be destroyed one day
- D Only bad things can continue forever. Life of good things feel short.

Answer: A

Question 13

Select the synonym of to defile

- A to esteem
- B to besmirch
- C to elevate
- D to sanctify

Answer: B

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Question 14

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 better(A)/adapted to the(B)/climate than you.(C)/No error(D)

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

Answer: D

Question 15

Rearrange the parts of the sentence in correct order.

It is high time

Pabout the cost and

Qthe government started thinking

Rquality of power supply

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

Answer: C

Question 16

Rearrange the parts of the sentence in correct order.

For India, therefore,

Pa priority along with nuclear safety Qnuclear security is not a new objective, Rbut has always been

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

Answer: D

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Question 17

Select the word with the correct spelling.

- A frackture
- B thiners
- C aproved
- D divining

Answer: D

Question 18

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 researchers areinto the mode of life of diabetes patients as diabetes is a lifestyle ailment.

- A inspecting
- B investigating
- C observing
- D seeing

Answer: B

Question 19

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.

Puneet said, "I have been reading a story book".

- A Puneet said he has been reading a story book.
- B Puneet said that he had been reading a story book.
- C Puneet said that he has been reading a story book.
- D Puneet said that he had read a story book.

Answer: B

Question 20

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase. a person who is not accepted by a social group, especially because he or she is not liked, respected, or trusted

- A fugitive
- B vagrant
- C pariah
- D tramp

Answer: C

Instructions

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

The new claim thatout of misplaced confidence that all that is in education can beis that the 'per unit cost of outcome' is lower in private schools. Meaning that eventhe learning outcomes of private schools are not betterthe public schools, the costrunning private schools is much lower.

Question 21

The new claim thatout of misplaced

- A emerging
- B emerge
- C was emerged
- D emerged

Answer: D

Question 22

education can beis that the 'per unit cost of outcome' is lower in private schools.

- A quantified
- B counted
- C totalled
- D scored

Answer: A

Question 23

Meaning that eventhe learning outcomes of private schools

- A if
- B when
- C whereas

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D as

Answer: A

Question 24

betterthe public schools

A then

B than

C to

D as

Answer: B

Question 25

the costrunning private schools is much lower.

A for

B about

C of

D with

Answer: C

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Reasoning

Instructions

For the following questions answer them individually

Question 26

Select the related word/letters/number from the given alternatives. Intelligent : Dumb :: Inflate: ?

A Raise

B Deflate

C Degrade

D Aerated

Answer: B

Explanation:

Expression = Intelligent : Dumb :: Inflate: ?

Intelligent and dumb are antonyms, similarly opposite of inflate is *deflate*.

=> Ans - (B)

Question 27

Select the related word/letters/number from the given alternatives. FS: IT :: QT: ?

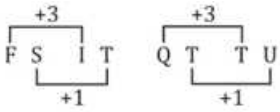
- A PR
- B TU
- C ST
- D TQ

Answer: B

Explanation:

Expression = FS: IT :: QT: ?

The pattern followed is :



Thus, QT : TU

=> Ans - (B)

Question 28

Select the related word/letters/number from the given alternatives. HI : 17 :: PQ : ?

- A 37
- B 24
- C 30
- D 33

Answer: D

Explanation:

Expression = HI : 17 :: PQ : ?

The numerical values of the alphabets are added.

Eg :- H = 8 , I = 9 \equiv 8 + 9 = 17

Similarly, P = 16 , Q = 17 \equiv 16 + 17 = 33

=> Ans - (D)

Question 29

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

4: 1024 :: 7 : ?

- A 343
- B 2401
- C 16807
- D 196

Answer: C

Explanation:

Expression = 4: 1024 :: 7 : ?

The pattern followed is = $x : x^5$

Eg :- $4 : 4^5 = 4 : 1024$

Similarly, $7^5 = 16807$

=> Ans - (C)

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Question 30

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

- A Xenon
- B Hydrogen
- C Argon
- D Helium

Answer: B

Explanation:

Except Hydrogen other three are noble gases, hence it is the odd one out.

=> Ans - (B)

Question 31

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

- A CLU
- B HQZ
- C AJS
- D OXF

Answer: D

Explanation:

(A) : C (+9 letters) = L (+9 letters) = U

(B) : H (+9 letters) = Q (+9 letters) = Z

(C) : A (+9 letters) = J (+9 letters) = S

(D) : O (+9 letters) = X (+8 letters) = F

=> Ans - (D)

Question 32

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

- A TSR
- B QPO
- C NML
- D ABC

Answer: D

Explanation:

Except for ABC, other letters are written in inverse order according to English alphabetical order, hence ABC is the odd one out.

=> Ans - (D)

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Question 33

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

A 7642

B 4520

C 3927

D 5841

Answer: D

Explanation:

The product of first two digits is equal to the last two digits, but $5 \times 8 \neq 41$, hence 5841 is the odd one out.

=> Ans - (D)

Question 34

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. Leaf, Caterpillar, Frog, ?

A Grasshopper

B Snake

C Cow

D Deer

Answer: B

Explanation:

A food chain is given, where a frog is eaten by a snake.

= Leaf -> Caterpillar -> Frog -> Snake

=> Ans - (B)

Question 35

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. CD, FA, IX, LU, ?

A TU

B RS

C OP

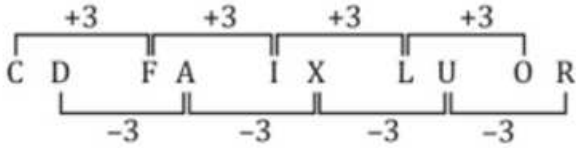
D OR

Answer: D

Explanation:

Expression : CD, FA, IX, LU, ?

The pattern followed is :



Thus, missing term = OR

=> Ans - (D)

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Question 36

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. RT, ?, ZB, DF

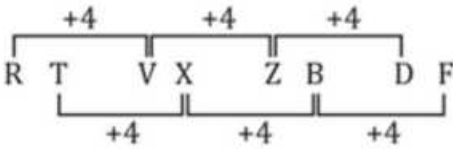
- A WX
- B VX
- C VY
- D UV

Answer: B

Explanation:

Expression : RT, ?, ZB, DF

The pattern followed is :



Thus, missing term = VX

=> Ans - (B)

Question 37

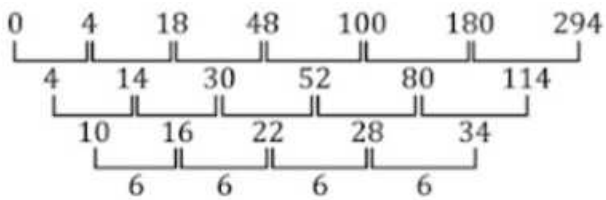
A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. 0, 4, 18, 48, 100, 180, ?

- A 294
- B 211
- C 186
- D 222

Answer: A

Explanation:

The pattern followed is :



Thus, missing term = 294

=> Ans - (A)

Question 38

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) All young girls are modern.

(II) No modern men are superstitious.

Conclusion:

(I) No girls are superstitious.

(II) No young men are superstitious.

- A Conclusion I follows
- B Conclusion II follows
- C Neither I nor II follows
- D Both I and II follows

Answer: C

Explanation:

(I) No girls are superstitious

From the statements, there is no relation between girls and superstitious. So we cannot say that no girls are superstitious. Hence conclusion I do not follow.

(II) No young men are superstitious

From the statement II, No modern men are superstitious. Young men may or may not be superstitious. Hence conclusion II do not follow.

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

Hence, the correct answer is Option C

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Question 39

If the age of Rahul is 5 years more than his friend Ajay's age and the age of Rahul's wife is 6 years less than Rahul, and Ajay's wife is 1 year older than Rahul's wife, then which of the following statements is true?

- A Rahul's age and Ajay's wife's age is same.
- B Ajay's wife's age and Ajay's age is same.
- C Rahul and Ajay are of the same age.
- D Rahul and Ajay's age difference is 3 years.

Answer: B

Explanation:

Let Ajay's age = x years

=> Rahul's age = $(x + 5)$ years

=> Rahul's wife's age = $(x + 5) - 6 = (x - 1)$ years

∴ Ajay's wife's age = $(x - 1) + 1 = x$ years

Thus, Ajay's wife's age and Ajay's age is same.

=> Ans - (B)

Question 40

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

i. Forbes

ii. Forest

iii. Forensic

iv. Formation

A iii, ii, iv, i

B iv, iii, ii, i

C i, ii, iii, iv

D i, iii, ii, iv

Answer: D

Explanation:

As per the order of dictionary :

= Forbes -> Forensic -> Forest -> Formation

≡ i, iii, ii, iv

=> Ans - (D)

Question 41

In a certain code language, "STATION" is written as "5313462" and "RED" is written as "789". How is "TRAIN" written in that code language?

A 73241

B 37421

C 37142

D 37412

Answer: C

Explanation:

The codes for each letter is given :

T -> 3

R -> 7

A -> 1

I -> 4

N -> 2

Thus, TRAIN : **37142**

=> Ans - (C)

Question 42

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

6	16	?
7	23	17
8	9	30

- A 27
- B 25
- C 12
- D 14

Answer: B

Explanation:

The sum of each row is same.

$$\text{Eg :- } 7 + 23 + 17 = 47$$

$$\text{and } 8 + 9 + 30 = 47$$

$$\text{Similarly, } 6 + 16 + x = 47$$

$$\Rightarrow x = 47 - 22 = 25$$

\Rightarrow Ans - (B)

Question 43

If "S" denotes "multiplied by", "V" denotes "subtracted from", "M" denotes "added to" and "L" denotes "divided by", then
72 L 24 S 3 V 7 M 2 =?

- A 4
- B 6
- C 8
- D 10

Answer: A

Explanation:

Expression : $72 \text{ L } 24 \text{ S } 3 \text{ V } 7 \text{ M } 2 = ?$

$$\equiv 72 \div 24 \times 3 - 7 + 2$$

$$= (3 \times 3) - 5$$

$$= 9 - 5 = 4$$

\Rightarrow Ans - (A)

Question 44

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

- A badd
- B ddba
- C bcda

D dbac

Answer: A

Explanation:

The pattern followed is that the term 'abd' is repeated with d's increasing after each term

= abd abdd abddd

=> Ans - (A)

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Question 45

Mohan is chasing a bike which is moving in the southwest direction. In which direction is Mohan moving?

A North

B East

C Northeast

D Southwest

Answer: D

Explanation:

If Mohan is chasing a bike, then Mohan is also moving in the direction of the bike, i.e. South-west direction.

=> Ans - (D)

Question 46

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, 'K' can be represented by 22, 04, etc., and 'P' can be represented by 77, 98, etc. Similarly, you have to identify the set for the word 'STRAIN'.

Matrix - I

	0	1	2	3	4
0	L	D	S	G	K
1	L	R	S	I	F
2	L	I	K	R	F
3	I	K	S	Z	R
4	C	K	Y	R	Y

Matrix - II

	5	6	7	8	9
5	A	N	X	X	K
6	Q	T	T	T	K
7	U	A	P	N	A
8	U	V	A	T	N
9	U	V	W	P	A

A 12, 88, 43, 76, 21, 78

B 87, 66, 11, 79, 13, 33

C 32, 68, 43, 85, 97, 56

D 02, 65, 97, 34, 79, 44

Answer: A

Explanation:

(A) : 12, 88, 43, 76, 21, 78 = **STRAIN**

(B) : 87, 66, 11, 79, 13, 33 = ATRAIZ

(C) : 32, 68, 43, 85, 97, 56 = STRUWN

(D) : 02, 65, 97, 34, 79, 44 = SQWRAY

=> Ans - (A)

Question 47

Abhishek is Byomkesh's brother and Vimal is Jackie's father. Ella is Byomkesh's mother. Abhishek and Jackie are brothers. How is Ella related to Vimal?

- A Wife
- B Daughter
- C Mother
- D Sister

Answer: A

Explanation:

Abhishek is Byomkesh's brother and Abhishek and Jackie are brothers.

Vimal is Jackie's father, => Vimal is the father of Abhishek, Byomkesh and Jackie.

Ella is Byomkesh's mother, => Ella and Vimal are married.

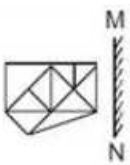
Thus, Ella is the wife of Vimal.

=> Ans - (A)

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Question 48

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



- A
- B
- C
- D

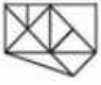
Answer: C

Explanation:

If a mirror is placed on the line MN,

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

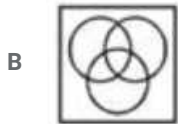
∴ The mirror image of the given figure is



Hence, the correct answer is Option C

Question 49

Identify the diagram that best represents the relationship among the given classes. Sweets, Ladoo, Jalebi



Answer: C

Explanation:

Ladoo and Jalebi are both different types of sweets, hence the venn diagram that best describes above relation is :

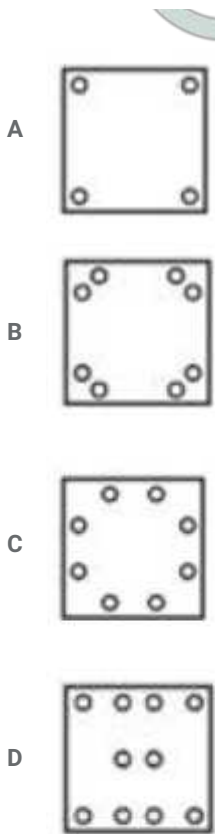


=> Ans - (C)

Question 50

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





Answer: C

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General Awareness

Instructions

For the following questions answer them individually

Question 51

Which of these railway stations is a World Heritage Site?

- A Kharagpur Railway Station
- B Howrah Station
- C Chhatrapati Shivaji Terminus
- D Kanpur Central

Answer: C

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Question 52

Name the first female Nobel Prize winner from India.

- A Indira Gandhi
- B Mother Teresa
- C Kavitha Krishnan

D Sarojini Naidu

Answer: B

Question 53

Intestinal bacteria synthesizes which vitamin in the human body?

A Vitamin K

B Proteins

C Fats

D Vitamin D

Answer: A

Question 54

.....is the study of the physical form and external structure of plants.

A Physiology

B Anatomy

C Phytomorphology

D Cytology

Answer: C

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Question 55

Which is a structural and functional unit of kidneys?

A Renette Cells

B Flame Cells

C Nephrites

D Nephrons

Answer: D

Question 56

The Chemical formula of Acetic acid is

A CH_3COH

B CH_3COOH

C CH_3COCH_3

D CH_2COOH

Answer: B

Question 57

The common name of sodium tetraborate decahydrate is

- A epsom salt
- B gypsum
- C Borax
- D galena

Answer: C

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Question 58

ASP in computer science stands for?

- A Abstract Service Provider
- B Application Service Provider
- C Application Signal Provider
- D Abstract Syntax Provider

Answer: B

Question 59

Giddha is a folk dance of which state?

- A Rajasthan
- B Uttar Pradesh
- C Punjab
- D Bihar

Answer: C

Question 60

A manufacturer faces price elasticity of demand of a 1.25 for its product. If it lowers its price by 6.4%, the increase in quantity sold will be

- A 5.15 percent
- B 7.65 percent
- C 8 percent
- D 5.12 percent

Answer: C

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Question 61

If Money supply growth is faster than real GDP growth, it results in

- A Inflation
- B deflation
- C budget surplus
- D budget deficit

Answer: A

Question 62

Algae belongs to which of the following levels of the ecosystem?

- A Decomposers
- B Destructors
- C Producers
- D Consumers

Answer: C

Question 63

Which park also shares its boundaries with Bangladesh?

- A Sundarbans National Park
- B Kaziranga National Park
- C Kanchendzonga National Park
- D Panna National Park

Answer: A

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Question 64

ATM stands for

- A Any Time Money
- B Auto Technology Money
- C Automated Teller Machine
- D Automatic Transaction Machinery

Answer: C

Question 65

In terms of size, Neptune ranks no. in our Solar System.

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

Answer: D

Question 66

Abu Dhabi is the Capital City of

- A United Arab Emirates
- B Netherlands
- C South Korea
- D Italy

Answer: A

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Question 67

In Akbar's regime,was the military head.

- A Sultan Ahmed Fawad
- B Suri Moja
- C Mir Khaas
- D Mir Bakshi

Answer: D

Question 68

Who pioneered the guerrilla warfare methods?

- A Babur
- B Akbar
- C Shivaji
- D Bajirao Peshwa

Answer: C

Question 69

Who Invented Universal Standard Time?

- A Enrico Fermi
- B Adolf Gaston Eugen Fick

- C Sandford Fleming
- D Benoit Fourneyron

Answer: C

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Question 70

Which law states that the total current entering a junction is equal to the total current leaving the junction?

- A Lenz's Law
- B Hooke's Law
- C Ohm's Law
- D Kirchhoff's First Law

Answer: D

Question 71

Acceleration due to gravity on a planet decreases with

- A decrease in radius of the planet
- B increase in mass of the planet
- C decrease in mass of the body
- D increase in altitude from surface of the planet

Answer: D

Question 72

Who is the Chairman of NITI Aayog?

- A President
- B RBI Governor
- C Finance Secretary
- D Prime Minister

Answer: D

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Question 73

Who is the Chairman of the Rajya Sabha?

- A President of India
- B Prime Minister of India
- C Vice President of India

D Speaker of Lok Sabha

Answer: C

Question 74

Shiva Thapa is related to

A Badminton

B Lawn tennis

C Boxing

D Cricket

Answer: C

Question 75

Who is the author of the book "My Truth".

A Khuswant Singh

B Kiran Bedi

C Narendra Modi

D Indira Gandhi

Answer: D

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Mathematics

Instructions

For the following questions answer them individually

Question 76

P and Q can do a project in 12 and 12 days respectively. In how many days can they complete 50% of the project if they work together?

A 6 days

B 3 days

C 18 days

D 1.5 days

Answer: B

Explanation:

Let total work to be done = 12 units

P can complete the work alone in 12 days

$$\Rightarrow \text{P's efficiency} = \frac{12}{12} = 1 \text{ unit/day}$$

Q can complete the work alone in 12 days

$$\Rightarrow \text{Q's efficiency} = \frac{12}{12} = 1 \text{ unit/day}$$

(P + Q)'s 1 day's work = 1 + 1 = 2 units/day

=> 50% of the work = $\frac{50}{100} \times 12 = 6$ units

∴ Time taken by them together to complete 50% of the work = $\frac{6}{2} = 3$ days

=> Ans - (B)

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Question 77

If $4(x + 5) - 3 > 6 - 4x \geq x - 5$; then the value of x is

A -2

B 1

C 3

D 4

Answer: B

Explanation:

Expression 1 : $4(x + 5) - 3 > 6 - 4x$

=> $4x + 20 - 3 > 6 - 4x$

=> $4x + 4x > 6 - 17$

=> $8x > -11$

=> $x > \frac{-11}{8}$ -----(i)

Expression 2 : $6 - 4x \geq x - 5$

=> $x + 4x \leq 6 + 5$

=> $5x \leq 11$

=> $x \leq \frac{11}{5}$ -----(ii)

Combining inequalities (i) and (ii), we get : $\frac{-11}{8} < x \leq \frac{11}{5}$

The only value that x can take among the options = 1

=> Ans - (B)

Question 78

The point $R(a,b)$ is first reflected in origin to R_1 and R_1 is reflected in x-axis to $(4,2)$. The coordinates of point R are

A (4,2)

B (4,-2)

C (-4,2)

D (-4,-2)

Answer: C

Explanation:

$R(a,b)$ after reflection at the origin = $(-a,-b)$

Reflection of point $(-a,-b)$ in the x-axis is $(-a,b)$

According to ques,

$$\Rightarrow (-a, b) = (4, 2)$$

$$\Rightarrow a = -4 \text{ and } b = 2$$

\therefore Coordinates of Point R = (-4,2)

\Rightarrow Ans - (C)

Question 79

For triangle PQR, find equation of altitude PS if coordinates of P, Q and R are (1,2), (2,1) and (0,5) respectively?

A $x - 3y = 7$

B $x + 3y = 5$

C $x - 2y = -3$

D $x + 3y = 7$

Answer: C

Explanation:

Coordinates of P(1,2), Q(2,1) and R(0,5)

$$\text{Slope of QR} = \frac{5-1}{0-2} = \frac{4}{-2} = -2$$

PS is perpendicular to QR, thus product of their slopes is -1

Let slope of PS = m

$$\Rightarrow m \times (-2) = -1$$

$$\Rightarrow m = \frac{1}{2}$$

Now, equation of PS having slope, $m = \frac{1}{2}$ and passing through P(1,2)

$$\Rightarrow (y - 2) = \frac{1}{2}(x - 1)$$

$$\Rightarrow 2y - 4 = x - 1$$

$$\Rightarrow x - 2y = -4 + 1 = -3$$

\Rightarrow Ans - (C)

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Question 80

If $\sec 300^\circ = x$, then value of x is

A $\sqrt{2}$

B $1/\sqrt{3}$

C 2

D 1

Answer: C

Explanation:

Expression : $\sec 300^\circ = x$

$$= \sec(360 - 60)$$

$$= \sec(60)$$

= 2

=> Ans - (C)

Question 81

To cover a distance of 225 km in 2.5 hours what should be the average speed of the car in meters/second?

- A 90 m/s
- B 45 m/s
- C 50 m/s
- D 25 m/s

Answer: D

Explanation:

The car covers 225 km in 2.5 hours

$$\text{Speed of car (in km/h)} = \frac{225}{2.5} = 90 \text{ km/hr}$$

$$\Rightarrow \text{Speed of car (in m/s)} = 90 \times \frac{5}{18}$$

$$= 5 \times 5 = 25 \text{ m/s}$$

=> Ans - (D)

Question 82

An angle is greater than its complementary angle by 30° . Find the measure of the angle?

- A 30°
- B 90°
- C 60°
- D 120°

Answer: C

Explanation:

Let the angle = θ

Its complementary angle = $(\theta - 30^\circ)$

Sum of an angle and its complementary angle = 90°

$$\Rightarrow \theta + (\theta - 30^\circ) = 90^\circ$$

$$\Rightarrow 2\theta = 90^\circ + 30^\circ = 120^\circ$$

$$\Rightarrow \theta = \frac{120}{2} = 60^\circ$$

=> Ans - (C)

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Question 83

A rice trader buys 8 quintals of rice for Rs 3,600. 10% rice is lost in transportation. At what rate should he sell to earn 15% profit?

- A Rs 352.1 per quintal
- B Rs 517.5 per quintal

- C Rs 575 per quintal
- D Rs 582.3 per quintal

Answer: C

Explanation:

Cost price = Rs. 3600 for 8 quintals

$$\begin{aligned} \text{Quantity of rice with the trader after transportation lost} &= \frac{100-10}{100} \times 8 \\ &= \frac{36}{5} = 7.2 \text{ quintals} \end{aligned}$$

$$\begin{aligned} \text{To have 15\% profit, total selling price of the trader should be} &= (100+15)\% \text{ of } 3600 = \frac{115}{100} \times 3600 \\ &= \text{Rs. } 4140 \end{aligned}$$

$$\therefore \text{Selling price per quintal} = \frac{4140}{7.2} = \text{Rs. } 575$$

=> Ans - (C)

Question 84

What is the value of $(\frac{3}{5} + \frac{7}{9})$?

- A $\frac{62}{45}$
- B $\frac{31}{28}$
- C $\frac{5}{7}$
- D $\frac{1}{7}$

Answer: A

Explanation:

$$\text{Expression : } \frac{3}{5} + \frac{7}{9}$$

$$= \frac{3(9)+7(5)}{45}$$

$$= \frac{27+35}{45} = \frac{62}{45}$$

=> Ans - (A)

Question 85

Marked price of an item is Rs 200. On purchase of 1 item discount is 5%, on purchase of 2 items discount is 14%. Rajeshri buys 3 items, what is the effective discount?

- A 37 percent
- B 26.25 percent
- C 11 percent
- D 30.2 percent

Answer: C

Explanation:

Marked price of item = Rs. 200

$$\text{Amount saved on buying 1 item} = \frac{5}{100} \times 200 = \text{Rs. } 10$$

$$\text{Marked price of 2 items} = 2 \times 200 = \text{Rs. } 400$$

$$\text{Amount saved on buying 2 items} = \frac{14}{100} \times 400 = \text{Rs. } 56$$

Thus, on buying 3 items, total amount saved = $10 + 56 = \text{Rs. } 66$

Total marked price of 3 items = $3 \times 200 = \text{Rs. } 600$

\therefore Effective discount = $\frac{66}{600} \times 100$

$$= \frac{66}{6} = 11\%$$

=> Ans - (C)

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Question 86

If the radius of a circle is increased by 16%, its area increases by

A 34.56 percent

B 32 percent

C 16 percent

D 17.28 percent

Answer: A

Explanation:

Let radius = 10 cm

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

If radius is increased by 16%, \Rightarrow New radius = 11.6 cm

$$\text{New area} = \pi(11.6)^2 = 134.56\pi \text{ sq. cm}$$

$$\Rightarrow \% \text{ increase in area} = \frac{134.56 - 100}{100} \times 100$$

$$= 34.56\%$$

=> Ans - (A)

Question 87

Expand and simplify $(x + 4)^2 + (x - 2)^2$

A $2(x^2 + 2x + 10)$

B $2(x^2 + 2x - 10)$

C $2(x^2 - 2x + 10)$

D $2(x^2 - 2x - 10)$

Answer: A

Explanation:

$$\text{Expression : } (x + 4)^2 + (x - 2)^2$$

$$= (x^2 + 16 + 8x) + (x^2 + 4 - 4x)$$

$$= 2x^2 + 4x + 20$$

$$= 2(x^2 + 2x + 10)$$

=> Ans - (A)

Question 88

A cone is hollowed out of a solid wooden cube of side 6 cm. The diameter and height of the cone is same as the side of the cube. What is the volume of the remaining cube?

- A 159.42 cubic cms
- B 323.15 cubic cms
- C 106.33 cubic cms
- D 210.66 cubic cms

Answer: A

Explanation:

Side of cube = 6 cm

Height of cone = 6 cm and radius of cone = $\frac{6}{2} = 3$ cm

Volume of remaining cube = Volume of cube - Volume of cone

$$= (a)^3 - \frac{1}{3}\pi r^2 h$$

$$= (6)^3 - \left[\frac{1}{3} \times \frac{22}{7} \times (3)^2 \times 6 \right]$$

$$= 216 - \left(\frac{22 \times 18}{7} \right)$$

$$= 216 - 56.58$$

$$= 159.42 \text{ cm}^3$$

=> Ans - (A)

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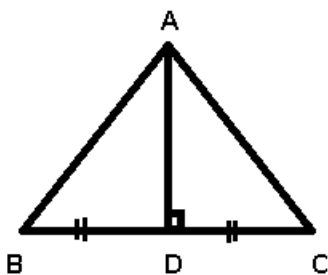
Question 89

In ΔABC , the median AD is 7 cm and CB is 14 cm, measure of $\angle CAB$ is

- A 30°
- B 60°
- C 90°
- D 120°

Answer: C

Explanation:



$AD = 7$ cm and $BC = 14$ cm

Since, AD is the median, => $BD = DC = 7$ cm

In ΔADC , => $AD = CD = 7$ cm

$$\Rightarrow \angle DCA = \angle DAC = 45^\circ$$

Similarly, in $\triangle ADB \Rightarrow \angle DAB = 45^\circ$

$$\therefore \angle CAB = \angle DAC + \angle DAB = 45^\circ + 45^\circ = 90^\circ$$

\Rightarrow Ans - (C)

Question 90

Among three numbers, the first is twice the second and thrice the third. If the average of three numbers is 198, then what is the difference between the first and the third number?

A 216

B 297

C 661

D 431

Answer: A

Explanation:

Let the first number be $6x$

\Rightarrow Second number = $3x$ and third number = $2x$

$$\text{Average of the three numbers} = \frac{6x+3x+2x}{3} = 198$$

$$\Rightarrow 11x = 198 \times 3 = 594$$

$$\Rightarrow x = \frac{594}{11} = 54$$

$$\therefore \text{Difference between the first and the third number} = 6x - 2x = 4x$$

$$= 4 \times 54 = 216$$

\Rightarrow Ans - (A)

Question 91

If $\sec A / \sqrt{\sec^2 A - 1} = x$, then value of x is

A $\tan A$

B $\operatorname{cosec} A$

C $\sin A$

D $\cos A$

Answer: B

Explanation:

$$\text{Expression : } \frac{\sec A}{\sqrt{\sec^2 A - 1}}$$

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

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

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

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

$$= \frac{1}{\sin A} = \operatorname{cosec} A$$

\Rightarrow Ans - (B)

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Question 92

If Gangadhar's salary is $\frac{3}{11}$ times of Hari's and Shambhu's is $\frac{3}{4}$ times of Hari's, what is the ratio of Gangadhar's salary to Shambhu's?

- A 44:9
- B 4:11
- C 9:44
- D 11:4

Answer: B

Explanation:

Let Hari's salary = $44x$

$$\Rightarrow \text{Gangadhar's salary} = \frac{3}{11} \times 44x = 12x$$

$$\Rightarrow \text{Shambhu's salary} = \frac{3}{4} \times 44x = 33x$$

$$\therefore \text{Ratio of Gangadhar's salary to Shambhu's} = \frac{12x}{33x}$$

$$= 4 : 11$$

\Rightarrow Ans - (B)

Question 93

If $a+b = 8$ and $ab = 15$, then $a^3 + b^3$ is

- A 224
- B 244
- C 152
- D 128

Answer: C

Explanation:

It is given that : $(a + b) = 8$ and $ab = 15$

$$\text{Using the expression, } (a^3 + b^3) = (a + b)(a^2 + b^2 - ab)$$

$$= (8)(a^2 + b^2 - 15)$$

$$\text{Also, } (a^2 + b^2) = (a + b)^2 - 2ab$$

$$= 8[(a + b)^2 - 2ab - 15]$$

$$= 8[(8^2 - (2 \times 15)) - 15]$$

$$= 8(64 - 30 - 15) = 8 \times 19$$

$$= 152$$

\Rightarrow Ans - (C)

Question 94

What is the value of $(1 + \cot A)^2 + (1 - \cot A)^2$?

- A $2\operatorname{cosec}^2 A$
- B $2\sec^2 A$
- C $1 - 2\operatorname{cosec}^2 A$
- D $1 - 2\sec^2 A$

Answer: A

Explanation:

$$\begin{aligned} \text{Expression : } & (1 + \cot A)^2 + (1 - \cot A)^2 \\ &= (1 + \cot^2 A + 2\cot A) + (1 + \cot^2 A - 2\cot A) \\ &= 2 + 2\cot^2 A = 2(1 + \cot^2 A) \\ \therefore (\operatorname{cosec}^2 A - \cot^2 A &= 1) \\ &= 2\operatorname{cosec}^2 A \\ \Rightarrow \text{Ans - (A)} \end{aligned}$$

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Question 95

The sum of twice a number and thrice its reciprocal is $\frac{25}{2}$. What is the number?

- A 7
- B 6
- C 5
- D 4

Answer: B

Explanation:

Let the number be x

$$\text{According to ques, } \Rightarrow 2x + \frac{3}{x} = \frac{25}{2}$$

$$\Rightarrow \frac{2x^2 + 3}{x} = \frac{25}{2}$$

$$\Rightarrow 4x^2 + 6 = 25x$$

$$\Rightarrow 4x^2 - 25x + 6 = 0$$

$$\Rightarrow 4x^2 - 24x - x + 6 = 0$$

$$\Rightarrow 4x(x - 6) - 1(x - 6) = 0$$

$$\Rightarrow (4x - 1)(x - 6) = 0$$

$$\Rightarrow x = 6, \frac{1}{4}$$

\Rightarrow Ans - (B)

Question 96

A sum fetched a total simple interest of Rs. 7728 at the rate of 7% per year in 8 years. What is the sum?

- A Rs 13800

B Rs 16560

C Rs 11040

D Rs 8280

Answer: A

Explanation:

Let the sum = Rs. $100x$

Rate = 7% under simple interest and time = 8 years

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

$$\Rightarrow \frac{100x \times 7 \times 8}{100} = 7728$$

$$\Rightarrow 56x = 7728$$

$$\Rightarrow x = \frac{7728}{56} = 138$$

$$\therefore \text{Sum} = 100 \times 138 = \text{Rs } 13,800$$

\Rightarrow Ans - (A)

Question 97

Refer the below data table and the following question.

	Number of Employees	Annual Salary	Bonus as percent of annual salary
Manager	3	60	30%
Executive	6	12	30%
Trainee	4	40	20%

What is the average bonus in rupees ?

A 827692

B 7880002

C 253333

D 224000

Answer: A

Explanation:

$$\text{Total bonus of managers (in lakh)} = 3 \times 60 \times \frac{30}{100} = 54 \text{ lakhs}$$

$$\text{Total bonus of executive (in lakh)} = 6 \times 12 \times \frac{30}{100} = 21.6 \text{ lakhs}$$

$$\text{Total bonus of trainee (in lakh)} = 4 \times 40 \times \frac{20}{100} = 32 \text{ lakhs}$$

$$\Rightarrow \text{Average bonus in rupees} = \frac{(54+21.6+32)}{(3+6+4)}$$

$$= \frac{107.6}{13} = 8.27692 \text{ lakhs} = 8,27,692$$

\Rightarrow Ans - (A)

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Question 98

Refer the below data table and the following question.

	2011	2012	2013	2014	2015
Company A	3000	3000	1000	2000	2000
Company B	5000	4000	2000	3000	4000
Company C	3000	5000	3000	4000	5000

For which of the following pairs of years the total exports from the three Companies together are equal? (Note: Figures given are in lakh rupees)

- A 2011 & 2013
- B 2013 & 2015
- C 2011 & 2015
- D 2014 & 2015

Answer: C

Explanation:

Total exports from the three companies together in :

$$2011 = 3000 + 5000 + 3000 = 11000$$

$$2012 = 3000 + 4000 + 5000 = 12000$$

$$2013 = 1000 + 2000 + 3000 = 6000$$

$$2014 = 2000 + 3000 + 4000 = 9000$$

$$2015 = 2000 + 4000 + 5000 = 11000$$

Clearly, total exports in 2011 and 2015 are equal to 11000

=> Ans - (C)

Question 99

Refer the below data table and the following question.

Year	Profit or Loss
2011	5
2012	15
2013	-20
2014	-15
2015	-5

What was the total profit or loss of the company in last 5 years ?

- A Profit of Rs 20 crores
- B Loss of Rs 30 crores
- C Loss of Rs 20 crores
- D Profit of Rs 30 crores

Answer: C

Explanation:

Total profit or loss in Rs. crore in last 5 years

$$= 5 + 15 - 20 - 15 - 5$$

$$= -20$$

Since, it is negative, thus loss of Rs. 20 crore

=> Ans - (C)

Question 100

Refer the below data table and the following question.

India's Exports in 2015	Value in millions US\$
Jewellery	550
Software	700
Cotton	875
Steel	775
Electronics	550

Software was what percent of total exports ?

- A 20.29 percent
- B 22.79 percent
- C 25.29 percent
- D 17.79 percent

Answer: A

Explanation:

Value in millions of Software = 700

Total exports = 550 + 700 + 875 + 775 + 550 = 3450

=> % of Software in total exports = $\frac{700}{3450} \times 100$

= $\frac{1400}{69} = 20.289 \approx 20.29\%$

=> Ans - (A)

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