



SSC CHSL 18 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.

RESISTANCE : OHM :: CURRENT : ?

- A Faraday
- B Radian
- C Ampere
- D Volt

Answer: C

Explanation:

Ohm is the S.I. unit of resistance, similarly *ampere* is the unit of measuring current.

=> Ans - (C)

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Question 2

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

UHCDN : VIDEO :: OKZXDQ : ?

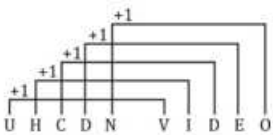
- A REPLAY
- B REPOSE
- C PLAYER
- D OPPOSE

Answer: C

Explanation:

Expression = UHCDN : VIDEO :: OKZXDQ : ?

The pattern followed is :



Thus, OKZXDQ : **PLAYER**

=> Ans - (C)

Question 3

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

64: 8 :: 289: ?

- A 17
- B 27
- C 26

D 19

Answer: A

Explanation:

Expression = $64 : 8 :: 289 : ?$

The pattern followed is $= x : \sqrt{x}$

Eg :- $64 : \sqrt{64} = 64 : 8$

Similarly, $\sqrt{289} = 17$

=> Ans - (A)

Question 4

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

13 : 156 :: 17 : ?

A 135

B 270

C 272

D 130

Answer: C

Explanation:

Expression = $13 : 156 :: 17 : ?$

The pattern followed is $= x : x(x - 1)$

Eg :- $13 : 13(13 - 1) = 13 : 156$

Similarly, $17 \times (17 - 1) = 17 \times 16 = 272$

=> Ans - (C)

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Question 5

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

A Islamabad

B Kabul

C Canberra

D Sydney

Answer: D

Explanation:

Islamabad is the capital of Pakistan, Kabul of Afghanistan and Canberra is capital of Australia, hence Sydney is the odd one out.

=> Ans - (D)

Question 6

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

A EG

- B EB
- C BY
- D GD

Answer: A

Explanation:

(A) : E (+2 letters) = G

(B) : E (-3 letters) = B

(C) : B (-3 letters) = Y

(D) : G (-3 letters) = D

=> Ans - (A)

Question 7

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

- A 2378
- B 7562
- C 6662
- D 1155

Answer: D

Explanation:

The sum of digits of first three numbers is 20, but $1 + 1 + 5 + 5 = 12$, hence 1155 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 149
- B 157
- C 199
- D 121

Answer: D

Explanation:

Among the given numbers, only $121 = (11)^2$ is a perfect square, hence it is the odd one out.

=> Ans - (D)

Question 9

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

Lieutenant, Captain, ? , Lieutenant colonel

- A Brigadier

- B Major
- C Sub lieutenant
- D Major general

Answer: B

Explanation:

Sequence of armed force ranking/designations.

= Lieutenant -> Captain -> Major -> Lieutenant colonel

=> Ans - (B)

Question 10

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.
?, LMN, RST, WXY

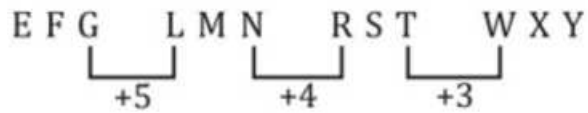
- A EGF
- B DFE
- C DEF
- D EFG

Answer: D

Explanation:

Expression : ?, LMN, RST, WXY

The pattern followed is :



Thus, missing term = EFG

=> Ans - (D)

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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.
TU, ?, NO, XY

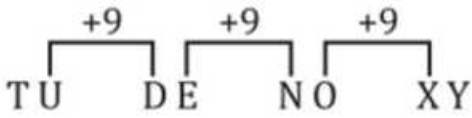
- A IJ
- B FG
- C DF
- D DE

Answer: D

Explanation:

Expression : TU, ?, NO, XY

The pattern followed is :



Thus, missing term = DE

=> Ans - (D)

Question 12

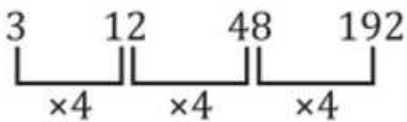
A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.
3, 12, 48, ?

- A 96
- B 184
- C 192
- D 384

Answer: C

Explanation:

All the numbers are multiplied by 4.



Thus, missing number = 192

=> Ans - (C)

Question 13

In the following question, two statements are given each followed by two conclusions I and II. You have to consider the statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.

Statements :

- (I) Some camels are ships.
- (II) No ship is a boat.

Conclusion :

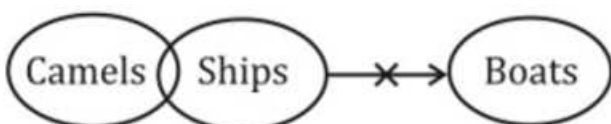
- (I) Some ships are camels.
- (II) Some camels are not boats.

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

Answer: D

Explanation:

The venn diagram for above statements is :



Conclusion :

- (I) Some ships are camels = true

(II) Some camels are not boats = true

Thus, both I and II follows

=> Ans - (D)

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Question 14

P, Q, R, S and T are sitting together. T is at one extreme end. P is the neighbour of T and is third to the left of Q. Who is fourth to the right of T?

A P

B T

C Q

D S

Answer: C

Explanation:

T is at one extreme end. P is the neighbour of T and is third to the left of Q.

=> T sits at extreme left end, and P sits to the immediate right of T. Also, Q sits at extreme right end.

Thus, arrangement :

T	P	R/S	S/R	Q
---	---	-----	-----	---

∴ Q is fourth to the right of T.

=> Ans - (C)

Question 15

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

- i. Joke
- ii. Jockey
- iii. Jocular
- iv. Jocund

A iv, ii, i, iii

B ii, iii, iv, i

C ii, iii, i, iv

D iv, ii, iii, i

Answer: B

Explanation:

As per the order of dictionary :

= Jockey -> Jocular -> Jocund -> Joke

≡ ii, iii, iv, i

=> Ans - (B)

Question 16

In a certain code language, "DANGER" is written as "145237" and "RANCOR" is written as "745967". How is "RAGE" written in that code language?

- A 7231
- B 7234
- C 7423
- D 7441

Answer: C

Explanation:

The codes for each letter is given :

- R -> 7
- A -> 4
- G -> 2
- E -> 3

Thus, RAGE : **7423**

=> Ans - (C)

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Question 17

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

5	6	7
4	5	6
9	11	?

- A 19
- B 1
- C 21
- D 13

Answer: D

Explanation:

The pattern followed is that in each column, the number at the end is obtained by adding the other two.

Eg :- $5 + 4 = 9$ and $6 + 5 = 11$

Similarly, $7 + 6 = 13$

=> Ans - (D)

Question 18

If "K" means "minus", "L" means "divided by", "M" means "plus" and "D" means "multiplied by", then $117 L 3 K 5 M 12 D 8 = ?$

- A 150
- B 125
- C 130
- D 145

Answer: C

Explanation:

Expression : $117 \div 3 - 5 + 12 \times 8 = ?$

$$\equiv 117 \div 3 - 5 + 12 \times 8$$

$$= \left(\frac{117}{3}\right) + (-5) + (12 \times 8)$$

$$= 39 - 5 + 96 = 130$$

=> 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?
P_R_S_QRR_

A QPRS

B QRPS

C QRPP

D QPSR

Answer: B

Explanation:

The pattern followed is that in groups of 5, the term 'PQRRS' is repeated.

= PQRRS PQRRS

=> Ans - (B)

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Question 20

Kajal left home for a hospital. She travelled 5 km towards east, then turned towards south-east to travel another 10 km, then again she turned towards north-east to travel 10 km and finally, she reached the hospital. In which direction is hospital with respect to her house?

A South

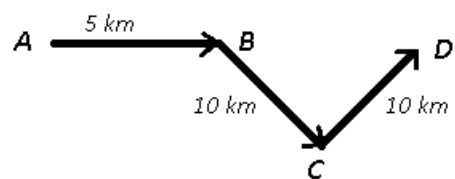
B North

C West

D East

Answer: D

Explanation:



Kajal started from point A and travelled 5 km east to reach B, then turned south-east and travelled for 10 km, from point C, again travelled 10 km towards north-east direction and reached the hospital at point D.

Thus, the hospital is east of her house.

=> 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, 'D' can be represented by 68, 10, etc., and 'R' can be represented by 34, 22, etc. Similarly, you have to identify the set for the word 'PIZZA'.

	0	1	2	3	4
0	I	P	I	M	R
1	D	I	W	R	W
2	S	H	R	B	E
3	F	R	E	P	R
4	R	E	P	C	F

	5	6	7	8	9
5	A	E	Z	A	Z
6	E	G	A	D	Y
7	K	A	X	G	M
8	A	B	C	A	W
9	Z	V	M	H	N

- A 33, 40, 85, 14, 20
- B 01, 02, 95, 66, 85
- C 42, 02, 57, 57, 10
- D 33, 11, 57, 95, 58

Answer: D

Explanation:

- (A) : 33, 40, 85, 14, 20 = PRAWS
- (B) : 01, 02, 95, 66, 85 = PIZGA
- (C) : 42, 02, 57, 57, 10 = PIZZD
- (D) : 33, 11, 57, 95, 58 = **PIZZA**

=> Ans - (D)

Question 22

Deepak has a brother named Aditya. Deepak is the son of Kuldeep. Bunty is Kuldeep's father. How is Aditya related to Bunty?

- A Uncle
- B Brother
- C Grandson
- D Grandfather

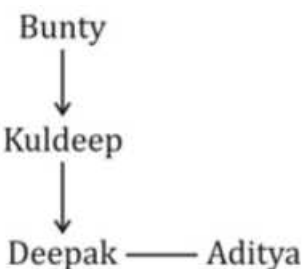
Answer: C

Explanation:

Deepak has a brother named Aditya. Deepak is the son of Kuldeep.

=> Kuldeep is the father of Deepak and Aditya.

Bunty is Kuldeep's father.



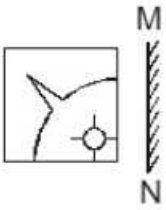
Thus, Aditya is Bunty's grandson.

=> 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: C

Explanation:

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

So the arrow pointing at top left in the middle will now face top right, thus the second and fourth options will be eliminated.

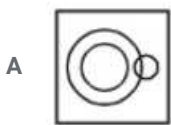
Also, in the question figure, the circle is inside the figure, so it will stay inside but its position will be reversed, hence third option is the right image.

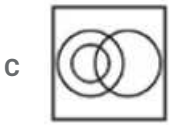
=> Ans - (C)

Question 24

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

Males, Doctors, Brothers

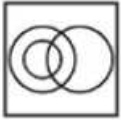




Answer: C

Explanation:

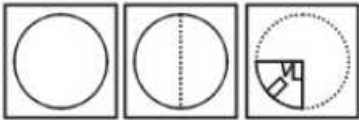
All brothers are males, and a doctor can be a brother or a male, hence the venn diagram that best describes above relation is :



=> Ans - (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: B

Explanation:

When the paper is unfolded, the pattern of cutting will be similar in four parts of the paper.

When the paper is unfolded first to the top, a rhombus will appear at the centre of the left part of paper.

When the paper is unfolded again to the right, a rectangle will form at the centre of the paper and a rhombus will appear similarly on the right part of the paper.

∴ When the opened it will appear as shown below



Hence, the correct answer is Option B

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General Awareness

Instructions

For the following questions answer them individually

Question 26

The Indian Parliament House was designed by _____

- A Alvar Aalto
- B Michael Graves
- C Edwin Lutyens
- D Renzo Piano

Answer: C

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Question 27

Raghuvver Chaudhari won Jnanpith Award for work in which language?

- A Gujarati
- B Marathi
- C Hindi
- D Telugu

Answer: A

Question 28

Which drug is used as an Antidepressant?

- A Oxybutynin
- B Tramadol
- C Sumatriptan
- D Bupropion

Answer: D

Question 29

The orange colour of carrot is because of

- A it grows in the soil.
- B Carotene
- C it is not exposed to sunlight.

D the entire plant is orange in colour.

Answer: B

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Question 30

Snake venom is highly modified saliva containing _____.

A prototoxins

B neurotoxins

C zootoxins

D electrotoxins

Answer: C

Question 31

What is Heavy water?

A Monoterium oxide

B Polyterium oxide

C Deuterium oxide

D Trisium oxide

Answer: C

Question 32

Which among the following elements has highest electronegativity?

A Gallium

B Sodium

C Arsenic

D Caesium

Answer: C

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Question 33

How many GB is equal to 1 TB?

A 128

B 256

C 512

D 1024

Answer: D

Question 34

Most airports in India are named after _____

- A Places
- B Festivals
- C Politicians
- D Animals

Answer: C

Question 35

Find arc elasticity of demand, if quantity demanded falls from 1050 to 950 when price of the item is increased from Rs 250 to Rs 290?

- A -0.68
- B -0.6
- C 0.68
- D 0.6

Answer: A

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Question 36

Suppose the equilibrium price for sugar is Rs 50/kg. If the government sets a price floor of Rs 70/kg then _____.

- A quantity of sugar demanded will be greater than the quantity demanded at equilibrium price
- B there will be a shortage of sugar in the market
- C there will be a surplus of sugar in the market.
- D quantity of sugar supplied will be less than what was supplied at the equilibrium price

Answer: C

Question 37

Madhya Pradesh has the highest number of reserves of which of the following animals?

- A Tiger
- B Lion
- C Peacock
- D Langur

Answer: A

Question 38

Which type of pathogen causes the water-borne disease Schistosomiasis ?

- A Parasitic
- B Protozoan
- C Bacterial
- D Viral

Answer: A

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Question 39

The highest airport in India is

- A Dharamshala airport
- B Pithoragarh airport
- C Leh airport
- D Dehradun airport

Answer: C

Question 40

World's longest land border is between which two countries?

- A Australia and New Zealand
- B India and China
- C Switzerland and Italy
- D Canada and USA

Answer: D

Question 41

Baghdad is the Capital City of _____.

- A Iraq
- B Thailand
- C China
- D Russia

Answer: A

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Question 42

The Bibi Ka Maqbara is a tomb located in _____. It was built by Azam Shah, son of Aurangzeb, in 1678.

- A Hyderabad
- B Aurangabad
- C Lucknow
- D Allahabad

Answer: B

Question 43

Battle of Kanauj was fought in which year?

- A 1764
- B 1526
- C 1540
- D 1857

Answer: C

Question 44

Which company developed Java?

- A Microsoft
- B Sun
- C Novell
- D Oracle

Answer: B

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Question 45

Who established the foundations of the Quantum theory?

- A Max Planck
- B Mark Nicholas
- C Albert Einstein
- D Alfred Hitchcock

Answer: A

Question 46

If in a motion, the axis of the rotation passes through an object, then the motion is called _____.

- A Orbital motion
- B Circulatory motion
- C Spin motion
- D Oscillatory motion

Answer: C

Question 47

Call sign of any aircraft carrying the Indian President is

- A Air India One
- B Airforce One
- C Code Eagle
- D Flight 101

Answer: A

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Question 48

Article 32 of the Indian Constitution "Remedies for enforcement of rights conferred by this Part" deals with?

- A the Union Government
- B the State Government
- C the fundamental rights of the Indian Citizen
- D the directive principles of state policy

Answer: C

Question 49

First indian sportsperson to win an individual Olympics silver for India is

- A Sushil Kumar
- B Rajyavardhan Singh
- C Abhinav Bindra
- D Dhyanchand

Answer: B

Question 50

Who wrote the Harry Potter series?

- A J.R.R.Tolkins
- B George R.R. Martin

- C J.K.Rowling
- D Stephen King

Answer: C

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English

Instructions

For the following questions answer them individually

Question 51

Select the antonym of to entrust

- A to confer
- B to allot
- C to rely
- D to deny

Answer: D

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Question 52

Select the word with the correct spelling.

- A chaastity
- B collapse
- C radialy
- D scansione

Answer: B

Question 53

Select the synonym of subsidy

- A endowment
- B forfeit
- C mulct
- D reward

Answer: A

Question 54

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase.
liquids forming a homogeneous mixture when added together

- A irascible
- B crucible
- C miscible
- D risible

Answer: C

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Question 55

Improve the bracketed part of the sentence.

It is wishful thinking that you can improve the situation by doing (with) such people.

- A away of
- B away with
- C from
- D no improvement

Answer: B

Question 56

Rearrange the parts of the sentence in correct order.

It is not uncommon

P-to push for public expenditure

Q-at a time

R-when private investment sentiment is weak

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

Answer: B

Question 57

Select the synonym of digress

- A sojourn
- B meander
- C tarriance
- D regress

Answer: B

Question 58

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.

Can we send this container by ship?

- A Can this container be sent by ship?
- B Could this container be sent by ship by us?
- C Could have we sent this container by ship?
- D This container can be sent by ship. Can we?

Answer: A

Question 59

In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase. Shooting fish in a barrel

- A To do random acts of stupidity
- B To behave in a cruel manner
- C Ridiculously easy
- D To escape through a narrow opening

Answer: C

Question 60

Select the word with the correct spelling.

- A brunete
- B nemonic
- C abhorred
- D carammels

Answer: C

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Question 61

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.

"How often do you go to the gym?" said Deepak to Juned.

- A Deepak asked Juned that how often he goes to the gym.
- B Deepak asked Juned that how often he has been going to the gym.
- C Deepak asked Juned how often he went to the gym.
- D Deepak asked Juned that how often he went to the gym.

Answer: C

Question 62

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'.

Although of good(A)/rains the production(B)/of food grains fell.(C)/No error(D)

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

Answer: A

Question 63

Rearrange the parts of the sentence in correct order.

District judges

P-in far-flung districts

Q-and gag orders

R-have been authorising mass blocking of online content

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

Answer: A

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Question 64

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.

State laws _____ the sale of alcoholic beverages inside the stadium.

- A freeze
- B inhibit
- C prohibit
- D impede

Answer: C

Question 65

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase. to free someone or something from a constraint or difficulty

- A to exterminate
- B to expurgate

C to intricate

D to extricate

Answer: D

Question 66

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 security for the Prime Minister has been _____ up following the shoot out.

A secured

B fortified

C strengthened

D beefed

Answer: D

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Question 67

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'.

In summer, the ponds(A)/just dry down(B)/in the scorching heat(C)/No error(D)

A A

B B

C C

D D

Answer: B

Question 68

Select the antonym of prestige

A eminence

B cachet

C insignificance

D kudos

Answer: C

Question 69

In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase. To sleep with the fishes

A Always be in a dream world

B To make absurd excuses

C To sleep peacefully

D To be dead

Answer: D

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Question 70

Improve the bracketed part of the sentence.

Don't step near the cliff's edge, else your life (might be thrown into) great peril.

A will be in

B will face

C would be placed in

D no improvement

Answer: A

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 is a question that _____ (1) _____ beyond rights and democracy. It plunges _____ (2) _____ into the basics of what constitutes that which is social. Is not the primordialism and the _____ (3) _____ of violence being used to construct a new kind of social? Are the current strategies of law enough to ponder _____ (4) _____ and _____ (5) _____ about such events?

Question 71

(1)

A goes

B went

C has gone

D is going

Answer: A

Question 72

(2)

A far

B deep

C wide

D low

Answer: B

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Question 73

(3)

- A tact
- B finesse
- C elegance
- D banality

Answer: D

Question 74

(4)

- A over
- B on
- C upon
- D about

Answer: A

Question 75

(5)

- A strategise
- B plan
- C philosophise
- D brood

Answer: C

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Mathematics

Instructions

For the following questions answer them individually

Question 76

If $3x + 5(4 - 3x) > 2 - 4x < 3x - \frac{x}{3}$; then the value of x is

- A 3
- B 0
- C 2
- D -1

Answer: C

Explanation:

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

$$\Rightarrow 3x + 20 - 15x > 2 - 4x$$

$$\Rightarrow 12x - 4x < 20 - 2$$

$$\Rightarrow 8x < 18$$

$$\Rightarrow x < \frac{9}{4} \text{ -----(i)}$$

Expression 2 : $2 - 4x < 3x - x/3$

$$\Rightarrow 4x + 3x - \frac{x}{3} > 2$$

$$\Rightarrow \frac{20x}{3} > 2$$

$$\Rightarrow x > \frac{3}{10} \text{ -----(ii)}$$

Combining inequalities (i) and (ii), we get : $\frac{3}{10} < x < \frac{9}{4}$

The only value that x can take among the options = 2

\Rightarrow Ans - (C)

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Question 77

At 9% discount the selling price of a washing machine is Rs 14000, what is the selling price if the discount is 22%?

- A Rs 12000
- B Rs 9360
- C Rs 10202.4
- D Rs 13322.4

Answer: A

Explanation:

Let Marked Price of the machine = $Rs.100x$

If discount is 9%, Selling price = $\frac{100-9}{100} \times 100x = 91x$

According to ques, $\Rightarrow 91x = 14000$

$$\Rightarrow x = \frac{14000}{91} = \frac{2000}{13}$$

If discount is 22%, selling price = $\frac{100-22}{100} \times 100x = 78x$

$$= 78 \times \frac{2000}{13} = Rs.12,000$$

\Rightarrow Ans - (A)

Question 78

A rice trader buys 22 quintals of rice for Rs 3,344. 24% rice is lost in transportation. At what rate should he sell to earn 30% profit?

- A Rs 88.86 per quintal
- B Rs 197.6 per quintal
- C Rs 269.2 per quintal
- D Rs 260 per quintal

Answer: D

Explanation:

Cost price = Rs. 3344 for 22 quintals

$$\begin{aligned} \text{Quantity of rice left with the trader after transportation lost} &= \frac{100-24}{100} \times 22 \\ &= \frac{19}{25} \times 22 = 16.72 \text{ quintals} \end{aligned}$$

$$\begin{aligned} \text{To have 30\% profit, total selling price of the trader should be} &= \frac{130}{100} \times 3344 \\ &= \text{Rs. } 4347.2 \end{aligned}$$

$$\therefore \text{Selling price per quintal} = \frac{4347.2}{16.72} = \text{Rs. } 260$$

=> Ans - (D)

Question 79

Which of the following is correct?

A $(4x - 3y)^2 = 16x^2 - 12xy + 9y^2$

B $(4x - 3y)^2 = 16x^2 + 24xy - 9y^2$

C $(4x - 3y)^2 = 16x^2 + 12xy - 9y^2$

D $(4x - 3y)^2 = 16x^2 - 24xy + 9y^2$

Answer: D

Explanation:

Expression : $(4x - 3y)^2$

$$= (4x)^2 + (-3y)^2 + 2(4x)(-3y)$$

$$= 16x^2 + 9y^2 - 24xy$$

=> Ans - (D)

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Question 80

The point P(a,b) is first reflected in origin to P1, and P1 is reflected in y-axis to (5,-4). The co-ordinates of point P are

A (-5,-4)

B (-5,4)

C (5,4)

D (5,-4)

Answer: C

Explanation:

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

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

According to ques,

$$\Rightarrow (a, -b) = (5, -4)$$

$$\Rightarrow a = 5 \text{ and } -b = -4$$

∴ Coordinates of Point P = (5,4)

⇒ Ans - (C)

Question 81

A missile travels at 1350 km/h. How many metres does it travel in one second?

- A 369 metres
- B 375 metres
- C 356 metres
- D 337 metres

Answer: B

Explanation:

Speed of missile = 1350 km/hr

⇒ Speed in m/s = $1350 \times \frac{5}{18}$

= $5 \times 75 = 375$ m/s

∴ In 1 second, it travels 375 metres

⇒ Ans - (B)

Question 82

If $\tan 330^\circ = x$, then the value of x is

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

Answer: A

Explanation:

Expression : $\tan 330^\circ = x$

= $\tan(360 - 30)$

= $-\tan(30)$

= $-\frac{1}{\sqrt{3}}$

⇒ Ans - (A)

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Question 83

What is the value of $\frac{3}{4} + \frac{8}{9}$?

- A $\frac{57}{27}$
- B $\frac{11}{13}$
- C $\frac{11}{27}$
- D $\frac{11}{27}$

C $\frac{59}{36}$

D $\frac{11}{9}$

Answer: C

Explanation:

Expression : $\frac{3}{4} + \frac{8}{9}$

$$= \frac{3(9)+8(4)}{36}$$

$$= \frac{27+32}{36} = \frac{59}{36}$$

=> Ans - (C)

Question 84

If $\sqrt{\frac{\sin A}{1-\sin^2 A}} = x$, then the value of x is

A $\tan A$

B $\cot A$

C $\operatorname{cosec} A$

D $\cos A$

Answer: A

Explanation:

Expression : $\sqrt{\frac{\sin A}{1-\sin^2 A}} = x$

$$\because (\sin^2 A + \cos^2 A = 1)$$

$$= \frac{\sin A}{\sqrt{\cos^2 A}} = \frac{\sin A}{\cos A}$$

$$= \tan A$$

=> Ans - (A)

Question 85

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

A $\frac{\sin A}{(1-\cos A)}$

B $\frac{\sin A}{(1+\cos A)}$

C $\frac{\tan A}{(1+\cos A)}$

D $\frac{\tan A}{(1-\cos A)}$

Answer: B

Explanation:

Expression : $\sqrt{\frac{(1-\cos A)}{(1+\cos A)}}$

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

$$\frac{(1-\cos A)\sqrt{1+\cos A}}{(1+\cos A)\sqrt{1+\cos A}}$$

$$\begin{aligned}
 &= \sqrt{\frac{1-\cos A}{1+\cos A}} \times \sqrt{\frac{1+\cos A}{1+\cos A}} \\
 &= \sqrt{\frac{1-\cos^2 A}{(1+\cos A)^2}} = \sqrt{\frac{\sin^2 A}{(1+\cos A)^2}} \\
 &= \frac{\sin A}{1+\cos A} \\
 &\Rightarrow \text{Ans - (B)}
 \end{aligned}$$

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Question 86

The slopes of two lines are 1 and $\frac{1}{\sqrt{3}}$. What is the angle between these two lines?

- A 15°
- B 30°
- C 45°
- D 60°

Answer: A

Explanation:

Slope of the two lines, $m_1 = 1$ and $m_2 = \frac{1}{\sqrt{3}}$

Let angle between them = θ

Then, $\tan(\theta) = \left| \frac{m_1 - m_2}{1 + m_1 m_2} \right|$

$$\Rightarrow \tan(\theta) = \frac{1 - \frac{1}{\sqrt{3}}}{1 + \frac{1}{\sqrt{3}}}$$

$$\Rightarrow \tan(\theta) = \frac{\tan(45) - \tan(30)}{1 + \tan(45)\tan(30)}$$

$$\Rightarrow \tan(\theta) = \tan(45 - 30) \quad \because [\tan(A - B) = \frac{\tan A - \tan B}{1 + \tan A \tan B}]$$

$$\Rightarrow \theta = 15^\circ$$

\Rightarrow Ans - (A)

Question 87

What are the roots of the quadratic equation $21x^2 - 37x - 28 = 0$?

- A $\frac{-7}{3}, \frac{4}{7}$
- B $\frac{3}{7}, \frac{-7}{4}$
- C $\frac{7}{3}, \frac{-4}{7}$
- D $\frac{-3}{7}, \frac{7}{4}$

Answer: C

Explanation:

$$\text{Equation : } 21x^2 - 37x - 28 = 0$$

$$\Rightarrow 21x^2 - 49x + 12x - 28 = 0$$

$$\Rightarrow 7x(3x - 7) + 4(3x - 7) = 0$$

$$\Rightarrow (7x + 4)(3x - 7) = 0$$

$$\Rightarrow x = \frac{-4}{7}, \frac{7}{3}$$

\Rightarrow Ans - (C)

Question 88

A rectangular swimming pool of length 25 m and breadth 12 m has a uniformly sloping floor. It is 2 m in depth on one end of its length and 3 m at the other. How much water is needed to completely fill this pool?

A 1500 cubic mts

B 2250 cubic mts

C 3000 cubic mts

D 750 cubic mts

Answer: D

Explanation:

The pool is 2 m in depth on one end of its length and 3 m at the other, thus the pool is in the shape of a trapezium whose volume will be equal to the product of area of trapezium and the width.

Length = 25 m and breadth = 12 m

$$\Rightarrow \text{Volume} = \left(\frac{1}{2} \times (2 + 3) \times 25\right) \times 12$$

$$= 125 \times 6 = 750 \text{ m}^3$$

\Rightarrow Ans - (D)

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Question 89

Peeyush has done $\frac{1}{3}$ rd of a job in 30 days, Sanjiv completes the rest of the job in 60 days. In how many days can they together do the job?

A 15 days

B 45 days

C 30 days

D 10 days

Answer: B

Explanation:

Let total work to be done = 90 units

$$\text{Work done by Peeyush in 30 days} = \frac{1}{3} \times 90 = 30 \text{ units}$$

$$\text{Peeyush's efficiency} = \frac{30}{30} = 1 \text{ unit/day}$$

Remaining work = $90 - 30 = 60$ units

Sanjiv completes 60 units in 60 days

$$\Rightarrow \text{Sanjiv's efficiency} = \frac{60}{60} = 1 \text{ unit/day}$$

(Peeyush + Sanjiv)'s 1 day's work = $1 + 1 = 2$ units/day

∴ Time taken by them together to do the job = $\frac{90}{2} = 45$ days

⇒ Ans - (B)

Question 90

An angle is twice its complementary angle. What is the measure of the angle?

- A 30°
- B 90°
- C 60°
- D 120°

Answer: C

Explanation:

Let the angle = θ

Its complementary angle = (2θ)

Sum of an angle and its complementary angle = 90°

$$\Rightarrow \theta + (2\theta) = 90^\circ$$

$$\Rightarrow 3\theta = 90^\circ$$

$$\Rightarrow \theta = \frac{90}{3} = 30^\circ$$

∴ Measure of the angle = $2 \times 30 = 60^\circ$

⇒ Ans - (C)

Question 91

The first and last terms of an arithmetic progression are 33 and -57. What is the sum of the series if it has 16 terms?

- A -135
- B -192
- C -207
- D -165

Answer: B

Explanation:

In an arithmetic progression with first term, $a = 33$, last term, $l = -57$

Number of terms = $n = 16$

$$\therefore \text{Sum of A.P.} = \frac{n}{2}(a + l)$$

$$= \frac{16}{2}(33 - 57)$$

$$= 8 \times (-24) = -192$$

⇒ Ans - (B)

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Question 92

27 is 3.6% of?

- A 750
- B 75
- C 1500
- D 1875

Answer: A

Explanation:

Let the number be x

According to ques, 3.6% of $x = 27$

$$\Rightarrow \frac{3.6}{100} \times x = 27$$

$$\Rightarrow x = \frac{2700}{3.6} = 300 \times 0.4$$

$$\Rightarrow x = 750$$

\Rightarrow Ans - (A)

Question 93

In a Kite _____.

- A Two pairs of consecutive sides are congruent
- B Diagonals are perpendicular bisectors of each other
- C Both diagonals form two congruent triangles
- D Adjacent angles are supplementary

Answer: A

Explanation:

In a kite two pairs of consecutive sides are congruent i.e. equal in length. Diagonals are perpendicular to each other but do not bisect. Also, adjacent angles are not supplementary.

\Rightarrow Ans - (A)

Question 94

The average weight of Sopan, Guruprasad and Rima is 65 kg. If the average weight of Sopan and Guruprasad be 67 kg and that of Guruprasad and Rima be 57 kg, then the weight of Guruprasad is

- A 60
- B 53
- C 58
- D 63

Answer: B

Explanation:

Let respective weights of Sopan, Guruprasad and Rima is s, g, r kg

$$\text{Average weight of the three} = \frac{s+g+r}{3} = 65$$

$$\Rightarrow s + g + r = 65 \times 3 = 195 \text{ kg} \text{ -----(i)}$$

$$\text{Similarly, Total weight of Sopan and Guruprasad} = s + g = 67 \times 2 = 134 \text{ kg} \text{ -----(ii)}$$

Total weight of Guruprasad and Rima = $g + r = 57 \times 2 = 114$ kg -----(iii)

Adding equations(ii) and (iii), $\Rightarrow s + 2g + r = 134 + 114 = 248$ -----(iv)

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

$\Rightarrow g = 248 - 195 = 53$ kg

\Rightarrow Ans - (B)

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Question 95

A bank offers 5% compound interest per half year. A customer deposits Rs. 9600 each on 1st January and 1st July of a year. At the end of the year, the amount he would have gained by way of interest is:

- A Rs 2928
- B Rs 1464
- C Rs 732
- D Rs 366

Answer: B

Explanation:

The interest earned on 9600 from Jan to July will be $9600 \times 5 \times \frac{1}{100}$ (Since rate of interest is 5 % per 6 months)
 $= 96 \times 5 = 480$

Hence, 9600 will amount to 10,080. He adds another 9600 to this. So the net amount becomes $9600 + 10080 = 19680$.

Now interest earned on this amount in a period of 6 months will be $19680 \times 5 \times \frac{1}{100} = 984$

So the final amount will be $19680 + 984 = 20664$

Total money he deposited = $9600 + 9600 = 19200$

Hence, amount earned via interest = $20664 - 19200 = \text{Rs } 1464$

\Rightarrow Ans - (B)

Question 96

By increasing the price of entry ticket to a fair in the ratio 3:5, the number of visitors to the fair has decreased in the ratio 7:2. In what ratio has the total collection increased or decreased?

- A increased in the ratio 10:21
- B increased in the ratio 6:35
- C decreased in the ratio 21:10
- D decreased in the ratio 35:6

Answer: C

Explanation:

Let cost of original ticket = Rs 3 and number of visitors = 70

\Rightarrow Original revenue = $3 \times 70 = \text{Rs } 210$

After increase in cost of ticket

New cost of ticket = Rs 5 and number of visitors = 20

\Rightarrow New Revenue = $5 \times 20 = \text{Rs } 100$

Since, new revenue is smaller than original revenue, thus total collection has decreased.

∴ Decrease in total collection ratio = $\frac{210}{100} = 21 : 10$

⇒ Ans - (C)

Question 97

Refer the below data table and answer the following Question.

Division / Standard	Boys	Girls
Division A / Standard 5	30	30
Division B / Standard 5	20	35
Division C / Standard 5	40	35
Division A / Standard 6	35	15
Division B / Standard 6	10	10
Division C / Standard 6	35	40

What is the ratio of boys to girls?

A 36 : 35

B 33 : 34

C 34 : 33

D 35 : 36

Answer: C

Explanation:

Total number of boys = $30 + 20 + 40 + 35 + 10 + 35 = 170$

Total number of girls = $30 + 35 + 35 + 15 + 10 + 40 = 165$

⇒ Required ratio = $\frac{170}{165}$

= 34 : 33

⇒ Ans - (C)

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Question 98

Refer the below data table and answer the following Question.

Marks	Number of students
40 and above	21
30 and above	39
20 and above	67
10 and above	92
0 and above	108

How many students have scored marks 20 or more but less than 40?

A 67

B 39

C 106

D 46

Answer: D

Explanation:

Number of students who scored :

40 and above = 21

30 and above = 39 - 21 = 18

20 and above = 67 - 39 = 28

10 and above = 92 - 67 = 25

0 and above = 108 - 92 = 16

=> Students who have scored marks 20 or more but less than 40 = 28 + 18 = 46

=> Ans - (D)

Question 99

Refer the below data table and answer the following Question.

Year	GDP growth rate for the year (in %)
2011	7
2012	6
2013	-6
2014	-8
2015	-6

If the GDP of the country was \$8 trillion at the end of 2013, what was it at the beginning of 2015?

A \$7.36 trillion

B \$8.48 trillion

C \$7.52 trillion

D \$7.84 trillion

Answer: A

Explanation:

GDP at the beginning of 2015 is equal to the GDP at the end of 2014

=> GDP growth rate in 2014 = -8%

GDP at the end of 2013 = GDP at the beginning of 2014 = \$8 trillion

$$\therefore \text{GDP at the beginning of 2015} = \frac{100-8}{100} \times 8 \text{ trillion}$$

$$= \frac{184}{25} = \$7.36 \text{ trillion}$$

=> Ans - (A)

Question 100

Refer the below data table and answer the following Question.

Subjects	Marks Scored
English	80
Hindi	45
Math	55
Science	60
Arts	65

Five points are to be deducted from this students average of marks scored because of poor attendance. What will be this student's net average marks scored ?

- A 51
- B 46
- C 61
- D 56

Answer: D

Explanation:

Total marks scored by the student = $80 + 45 + 55 + 60 + 65 = 305$

$$\Rightarrow \text{Average marks} = \frac{305}{5} = 61$$

But due to poor attendance, 5 marks are deducted

$$\therefore \text{Net average} = 61 - 5 = 56$$

\Rightarrow Ans - (D)

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