



SSC CHSL 24 Jan 2017 Afternoon Shift

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- B LQV
- C QRS
- D RPN

Answer: B

Explanation:

Expression = EJO : FKP :: KPU : ?

The pattern followed is :

E (+1 letter) = F, J (+1 letter) = K, O (+1 letter) = P

Similarly, K (+1 letter) = L, P (+1 letter) = Q, U (+1 letter) = V

=> KPU : **LQV**

=> Ans - (B)

Question 4

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

13 : 48 :: 17 : ?

- A 68
- B 63
- C 64
- D 59

Answer: C

Explanation:

Expression = 13 : 48 :: 17 : ?

The pattern followed is = $x : 4(x - 1)$

Eg :- 13 : $4(13 - 1) = 13 : 48$

Similarly, $4(17 - 1) = 4 \times 16 = 64$

=> Ans - (C)

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Question 5

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

- A Meghalaya
- B Shillong
- C Dispur
- D Gangtok

Answer: A

Explanation:

Meghalaya is a state, others are capital cities, hence Meghalaya is the odd one out.

=> Ans - (A)

Question 6

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

- A HOC
- B IKB
- C FSA
- D PDW

Answer: D

Explanation:

Except PDW, all others have one vowel, hence PDW is the odd one out.

=> Ans - (D)

Question 7

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

- A 343
- B 357
- C 352
- D 371

Answer: C

Explanation:

Except for 352, other numbers are divisible by 7, hence 352 is the odd one out.

=> Ans - (C)

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Question 8

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

- A 2356
- B 1232
- C 4268
- D 2270

Answer: D

Explanation:

Except 2270 other three are divisible by 4, hence 2270 is the odd one out.

=> Ans - (D)

Question 9

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
Universe, Galaxy, Solar system, ?

- A World
- B India
- C Continent
- D Sub-continent

Answer: A

Explanation:

The series is given in decreasing order of size.

= Universe -> Galaxy -> Solar system -> World

=> Ans - (A)

Question 10

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
ADG, ILO, QTW, ?

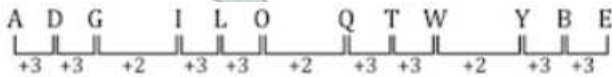
- A YBE
- B ZBD
- C PRT
- D BCD

Answer: A

Explanation:

Expression : ADG, ILO, QTW, ?

The pattern followed is :



Thus, missing term = YBE

=> Ans - (A)

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Question 11

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
BMX, DNW, FOV, ?

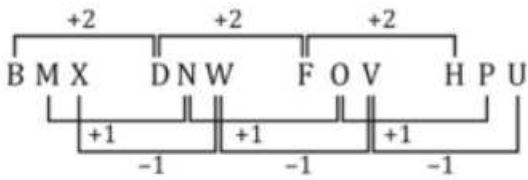
- A HPU
- B HPV
- C HIV
- D TPU

Answer: A

Explanation:

Expression : BMX, DNW, FOV, ?

The pattern followed is :



Thus, missing term = HPU

=> Ans - (A)

Question 12

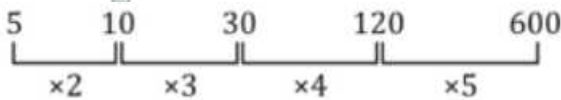
A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
5, 10, 30, 120, ?

- A 624
- B 600
- C 626
- D 670

Answer: B

Explanation:

The pattern followed is that consecutive natural numbers are added.



Thus, missing term = 600

=> Ans - (B)

Question 13

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

Statement:

- (I) Petrol prices are increasing in the economy.
- (II) The price of crude oil in international market has not shown reasonable increase.

Conclusions:

- (I) The inflation has hit various commodities like petrol in the country.
- (II) Demand for petrol is increasing but supply has not picked up with the same rate, hence resulting into hike in prices.

- A Only conclusion II follows
- B Conclusion I and II both follow
- C Neither I nor II follow
- D Only conclusion I follows

Answer: D

Explanation:

The main reason for the increase of price of goods and services is inflation. Since there is increase in price of petrol, inflation has hit the commodity like petrol in the country. Hence conclusion I follows the given statements.

Conclusion II is one of the reason for the increase in price of petrol but it is not the definite reason. Hence conclusion II do not follow the given statements.

∴ Only conclusion I follows the given statements.

Hence, the correct answer is Option D

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Question 14

A has more money than E but less than that of B. C has more money than D but less than that of E. Who among them is the richest?

A B

B C

C D

D A

Answer: A

Explanation:

A has more money than E but less than that of B, $\Rightarrow B > A > E$.

C has more money than D but less than that of E, $\Rightarrow E > C > D$.

Combining above statements, we get : $B > A > E > C > D$

Thus, B is the richest.

\Rightarrow Ans - (A)

Question 15

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

i. Serious

ii. Senior

iii. Senate

iv. Statesman

A iii, ii, i, iv

B i, ii, iii, iv

C iv, i, ii, iii

D i, iii, ii, iv

Answer: A

Explanation:

As per the order of dictionary :

= Senate \rightarrow Senior \rightarrow Serious \rightarrow Statesman

\equiv iii, ii, i, iv

\Rightarrow Ans - (A)

Question 16

In a certain code language, "OCEAN" is written as "PEHES". How is "RIVER" written in that code language?

A SKIYW

B SKYIW

C SKYIV

D SKYEV

Answer: B

Explanation:

"OCEAN" is written as "PEHES"

The pattern followed is :

O	C	E	A	N
(+1)	(+2)	(+3)	(+4)	(+5)
P	E	H	E	S

Similarly, for RIVER :

R	I	V	E	R
(+1)	(+2)	(+3)	(+4)	(+5)
S	K	Y	I	W

=> Ans - (B)

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Question 17

If "+" means "minus", "x" means "divided by", "÷" means "plus" and "-" means "multiplied by", then $240 \times 12 - 6 + 29 \div 42 = ?$

A 133

B 147

C 154

D 176

Answer: A

Explanation:

Expression = $240 \times 12 - 6 + 29 \div 42 = ?$

$\equiv 240 \div 12 \times 6 - 29 + 42$

$= (20 \times 6) + 13$

$= 120 + 13 = 133$

=> Ans - (A)

Question 18

If "S" denotes "multiplied by", "V" denotes "subtracted from", "M" denotes "added to" and "L" denotes "divided by", then $36 \text{ L } 9 \text{ S } 8 \text{ V } 7 \text{ M } 5 = ?$

A 32

B 25

C 37

D 30

Answer: D

Explanation:

Expression = $36 \text{ L } 9 \text{ S } 8 \text{ V } 7 \text{ M } 5 = ?$

$\equiv 36 \div 9 \times 8 - 7 + 5$

$$= (4 \times 8) - 2$$

$$= 32 - 2 = 30$$

=> Ans - (D)

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?

b_a_c_bc_b_a

A baacc

B ababc

C cbaac

D cbaab

Answer: C

Explanation:

The pattern followed is that in groups of 3, the term 'bca' is repeated.

= bca bca bca bca

=> Ans - (C)

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Question 20

Vedit is facing the east. He turns right and walks for 50 m, then he again turns right and walks for 25 m, then walks 10 m to the north and from there again 20 m to the east. In which direction is he from his original position?

A Southeast

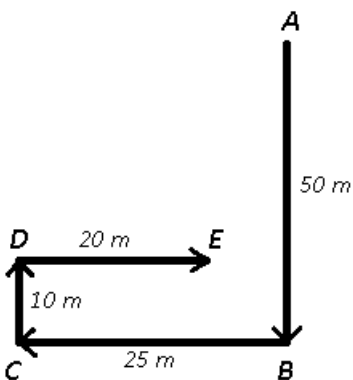
B Southwest

C East

D West

Answer: B

Explanation:



Let Vedit is at point A initially facing the east. He turns right and walks for 50 m southwards, then he again turns right and walks for 25 m towards west to reach C, then walks 10 m to the north and from D, 20 m to the east and finally stop at point E.

Thus, he is south-west of his original position.

=> Ans - (B)

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, 'G' can be represented by 76, 67 etc. and 'S' can be represented by 21, 32 etc. Similarly, you have to identify the set for the word 'BOARD'.

MATRIX 1:

	0	1	2	3	4
0	E	D	T	U	O
1	A	E	T	O	U
2	A	S	O	D	V
3	P	A	S	O	V
4	P	A	T	S	O

MATRIX 2:

	5	6	7	8	9
5	Q	Q	R	Y	Y
6	J	B	G	R	C
7	I	G	B	C	R
8	D	I	F	B	C
9	H	H	H	F	B

- A 66, 04, 12, 85, 23
- B 77, 13, 20, 57, 85
- C 89, 44, 31, 57, 01
- D 98, 44, 41, 68, 85

Answer: B

Explanation:

- (A) : 66, 04, 12, 85, 23 = BOTDD
- (B) : 77, 13, 20, 57, 85 = **BOARD**
- (C) : 89, 44, 31, 57, 01 = COARD
- (D) : 98, 44, 41, 68, 85 = FOARD

=> Ans - (B)

Question 22

Pointing to a photograph of a girl Rajesh says, "She is the only daughter of my father." How is Rajesh related to the girl?

- A Son
- B Brother
- C Father
- D Uncle

Answer: B

Explanation:

Only daughter of Rajesh's father = Rajesh's sister
=> Rajesh is that girl's brother.

=> Ans - (B)

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Question 23

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

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

Answer: B

Question 24

Identify the diagram that best represents the relationship among the given classes.
Sports, Football, Baseball

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

Answer: A

Question 25

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

Answer: C

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General Awareness

Instructions

For the following questions answer them individually

Question 26

Khas Mahal and the Shish Mahal are built in which World Heritage Monument?

- A Humayun's Tomb
- B Mahabodhi Temple Complex
- C Qutub Minar

D Agra Fort

Answer: D

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Question 27

Bhalchandra Nemade won Jnanpith Award for work in which language?

A Gujarati

B Marathi

C Hindi

D Telugu

Answer: B

Question 28

Which of the following scientists is also known as the Father of Biology?

A Herbert Spencer

B Aristotle

C Lamarck

D Darwin

Answer: B

Question 29

Which cells give rise to various organs of the plant and keep the plant growing?

A Permanent

B Dermal

C Meristematic

D Mature

Answer: C

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Question 30

Rodentia Muridae is the scientific name of

A Mouse

B Squirrel

C Monkey

D Lizard

Answer: A

Question 31

The Chemical formula of Aluminium Chloride is

- A AlCl
- B AlCl₂
- C AlCl₃
- D Al₂Cl₃

Answer: C

Question 32

Plastic bottles are made of a polymer called PET. The expanded form of PET is

- A Polyethylene terephthalate
- B Polyethyl terelene
- C Polyethylene triphosphate
- D Polyethyl tetrachloride

Answer: A

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Question 33

HTTP in computer science stands for?

- A HyperText Transmission Protocol
- B HyperText Transfer Protocol
- C HyperText Technology Protocol
- D HyperText Total Protocol

Answer: B

Question 34

The leaning temple of Huma is dedicated to

- A Hanuman
- B Shiva
- C Rama
- D Krishna

Answer: B

Question 35

If the average total cost are Rs 2400, average variable cost is Rs 1700 and quantity produced is 75 units, find the total fixed costs of the firm?

- A Rs 52500
- B Rs 127500
- C Rs 180000
- D Rs 60000

Answer: A

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Question 36

What will follow if the Government monetized part of its deficit?

- A Money supply in the economy will increase.
- B Interest rate will increase.
- C Government revenue will decrease.
- D Government expenditure will increase.

Answer: A

Question 37

Nongreen plants lack which of the following?

- A Chlorophyll
- B Lycophyll
- C Cyanophyll
- D Phototropism

Answer: A

Question 38

Melghat Tiger Reserve is in which state?

- A Maharashtra
- B Rajasthan
- C Arunachal Pradesh
- D Uttarakhand

Answer: A

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Question 39

Which institution in India acts as 'lender of the last resort'?

- A Finance Ministry
- B Reserve Bank of India
- C Treasury
- D Currency Printing Presses

Answer: B

Question 40

Name the international treaty designed to protect the ozone layer from CFCs.

- A Sigma protocol
- B Montreal protocol
- C Ozone protocol
- D Green protocol

Answer: B

Question 41

..... is the time taken by the earth to return to a given point in its orbit with reference to a fixed star.

- A Lunar year
- B Sidereal year
- C Solar year
- D Tropical year

Answer: B

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Question 42

Who were the first among the following to establish trade relations with India?

- A Dutch
- B French
- C English
- D Portuguese

Answer: D

Question 43

Kargil War against Pakistan started in the year?

- A 1961
- B 1965
- C 1972
- D 1999

Answer: D

Question 44

Who Invented FM Radio?

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

Answer: A

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Question 45

..... refers to the superposing of two or more coherent waves to produce regions of maxima and minima in space, according to the principle of superposition.

- A Interference
- B Rectification
- C Intensity
- D Diffraction

Answer: A

Question 46

What is the value of acceleration due to gravity at the centre of earth?

- A 1
- B 0
- C 1
- D Infinity

Answer: B

Question 47

What is the full form of the Indian Political Party "CPIM"?

- A Common Party of India (Marxist)

- B Common Party of India (Movement)
- C Communist Party of India (Movement)
- D Communist Party of India (Marxist)

Answer: D

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Question 48

Rajya Sabha is assisted by the Secretary General, who holds the rank equivalent to?

- A Cabinet Minister of the Government of India
- B Member of Parliament
- C Member of Legislature
- D Cabinet Secretary to the Government of India

Answer: D

Question 49

..... won the 2016 Formula One Rolex Australian Grand Prix.

- A Michael Phelps
- B Lewis Hamilton
- C Novak Djokovic
- D Nico Rosberg

Answer: D

Question 50

Who is the Author of the book "You are the Best Wife: A True Love Story"?

- A Durjoy Datta
- B Savi Sharma
- C Ajay K Pandey
- D Preeti Shenoy

Answer: C

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English

Instructions

For the following questions answer them individually

Question 51

Select the synonym of "meadow"

- A metro
- B pasture
- C borough
- D civic

Answer: B

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Question 52

Select the word with the correct spelling.

- A paginat
- B carosel
- C escalate
- D skewwered

Answer: C

Question 53

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.

People came out on the streets andfirecrackers to celebrate the victory.

- A burst
- B heated
- C burnt
- D ignited

Answer: A

Question 54

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 could scarcely think(A)/ what I was saying,(B)or what was being said to me.(C)/No error(D)

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

Answer: D

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Question 55

Rearrange the parts of the sentence in correct order.

However the major drawback

P -of this process is that

Q -there is no legally binding

R -outcome at the end of six years

A QRP

B RPQ

C PRQ

D PQR

Answer: D

Question 56

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'.

When you have(A)/gone through my notes, (B)/give the same to me.(C)/No error(D)

A A

B B

C C

D D

Answer: C

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.

I don't have a big budget, I just need a place which provides bed and

A drinks

B breakfast

C food

D eatables

Answer: B

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Question 58

Improve the bracketed part of the sentence. What time are we (going to leave) tomorrow?

A going to go to leave

B going to be leaving

C going to have left

D no improvement

Answer: D

Question 59

Select the synonym of "to superimpose"

A to overlap

B to adjoin

C to juxtapose

D to continue

Answer: A

Question 60

In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase. an arm and a leg

A a large, possibly exorbitant, amount of money

B a highly motivated person can succeed even with few resources

C one loves a person so much that one is willing to sacrifice his most precious things for them

D all children are equal for a mother. She can't sacrifice anyone.

Answer: A

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Question 61

Select the word with the correct spelling.

A tusocky

B lampereys

C rebeled

D atrocity

Answer: D

Question 62

In the following question, a sentence has been given in Active/Passive voice. Out of four alternatives suggested, select the one, which best expresses the same sentence in Passive/Active voice.

The professor always answers my questions.

A My questions were always answered by the professor.

B My questions are always answered by the professor.

C My questions were always being answered by the professor.

D My questions had always been answered by the professor.

Answer: B

Question 63

Select the antonym of "to inundate"

- A to underwhelm
- B to glut
- C to deluge
- D to engulf

Answer: A

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Question 64

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

- A preparing for a fight
- B to have a problem with something or someone
- C some important task to do
- D one's skill should always be practiced or their edge becomes blunt

Answer: B

Question 65

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase. a piece of living tissue that is transplanted surgically.

- A hybrid
- B bud
- C scion
- D graft

Answer: D

Question 66

Improve the bracketed part of the sentence.

When he arrived at the party, he (had been dressed) in a black suit.

- A dressed
- B had dressed
- C was dressed
- D no improvement

Answer: C

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Question 67

Select the antonym of "to reveal"

- A to concede
- B to repudiate
- C to avow
- D to divulge

Answer: B

Question 68

Rearrange the parts of the sentence in correct order.

No democracy

Pcan survive without the **Q**philosophical imagination **R**roots of such an ethical and

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

Answer: C

Question 69

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.

Anita said, "I bought a phone yesterday".

- A Anita said she had bought a phone the day before.
- B Anita said that she had bought a phone the day before.
- C Anita said she has bought a phone the day before.
- D Anita said she has bought a phone yesterday.

Answer: B

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Question 70

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase. to cut up (food, especially meat) into very small pieces

- A to crumble
- B to chop

C to mince

D to grind

Answer: C

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.

In its(1).....phase, the big telco monopolies tried to levy a "tax" on all Internet content(2)..... The Internet companies were then the new kids on the(3)..... They and the Internet user community fought back such attempts. This was the first net neutrality war, and it(4).....the principle of(5).....on the Internet between different types of content or sites.

Question 71

In its phase

A nascent

B potential

C fresh

D promising

Answer: A

Question 72

all Internet content

A stakeholders

B providers

C manufacturers

D coders

Answer: B

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Question 73

The Internet companies were then the new kids on the

A slab

B bar

C block

D square

Answer: C

Question 74

This was the first net neutrality war, and it

- A established
- B establishes
- C was establishing
- D were establishing

Answer: A

Question 75

the principle of on the Internet between different types of content or sites.

- A suffrage
- B quota
- C nonalignment
- D nondiscrimination

Answer: D

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Mathematics

Instructions

For the following questions answer them individually

Question 76

A factory buys 8 machines. 3 MachineA, 4 MachineB and rest MachineC. Prices of the machines are Rs 45000, Rs 25000 and Rs 35000 respectively. Calculate the average cost (in Rs) of these machines?

- A 33750
- B 35000
- C 36250
- D 32250

Answer: A

Explanation:

Cost of machines A, B and C respectively are : Rs. 45000 , 25000 and 35000

Number of machines A, B and C respectively are : 3 , 4 , 1

$$\Rightarrow \text{Total cost} = (3 \times 45000) + (4 \times 25000) + (1 \times 35000)$$

$$= 135000 + 100000 + 35000 = \text{Rs. } 2,70,000$$

$$\therefore \text{Average cost} = \frac{2,70,000}{8} = \text{Rs. } 33,750$$

\Rightarrow Ans - (A)

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Question 77

The ratio of present ages of Rangitha and Shaheen is 6:5. After 12 years the ratio of their ages will be 7:6. What is Rangitha's present age?

- A 60
- B 55
- C 72
- D 28

Answer: C

Explanation:

Let present age of Rangitha = $6x$ years

=> Present age of Shaheen = $5x$ years

According to question, => $\frac{6x+12}{5x+12} = \frac{7}{6}$

$$\Rightarrow 36x + 72 = 35x + 84$$

$$\Rightarrow x = 84 - 72 = 12$$

∴ Rangitha's present age = $6 \times 12 = 72$ years

Question 78

If $\operatorname{cosec} 240^\circ = x$, then the value of x is

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

Answer: C

Explanation:

Expression : $\operatorname{cosec} 240^\circ$

$$= \operatorname{cosec} (180^\circ + 60^\circ) = -\operatorname{cosec} 60^\circ$$

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

=> Ans - (C)

Question 79

$2*[0.3(1.3 + 3.7)]$ of $0.8 = ?$

- A 1.92
- B 0.72
- C 2.16
- D 2.4

Answer: D

Explanation:

Expression : $2 \times [0.3(1.3 + 3.7)]$ of $0.8 = ?$

$$= 2 \times (0.3 \times 5) \times 0.8$$

$$= 10 \times 0.24 = 2.4$$

=> Ans - (D)

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Question 80

9 hrs after a goods train passed a station, another train travelling at a speed of 72 km/hr following that goods train passed through that station. If after passing the station the train overtakes the goods train in 3 hours. What is the speed of the goods train?

A 21.6 km/hr

B 27 km/hr

C 18 km/hr

D 14.4 km/hr

Answer: C

Explanation:

Let the speed of goods train = x km/hr

Speed of another train = 72 km/hr

Distance between the two trains = $72 \times 9 = 648$ km

The trains are moving in same direction, => Relative speed = $(72 - x)$ km/hr

Time = $9 + 3 = 12$ hours

=> speed = distance/time

$$\Rightarrow 72 - x = \frac{648}{12} = 54$$

$$\Rightarrow x = 72 - 54 = 18 \text{ km/hr}$$

Question 81

A shopkeeper, sold cocoa seeds at the rate Rs 1,230 a kg and bears a loss of 5%. Now if he decides to sell it at Rs 1,353 per kg, what will be the result?

A 4.5 percent gain

B 9 percent gain

C 4.5 percent loss

D 9 percent loss

Answer: A

Explanation:

Let Cost price = Rs. x

Selling price = Rs. 1230

$$\Rightarrow \text{Loss \%} = \frac{x - 1230}{x} \times 100 = 5$$

$$\Rightarrow \frac{x-1230}{x} = \frac{5}{100} = \frac{1}{20}$$

$$\Rightarrow 20x - 24600 = x$$

$$\Rightarrow x = \frac{24600}{19} = 1294.73$$

If selling price = Rs. 1353

$$\Rightarrow \text{Profit \%} = \frac{1353-1294.73}{1294.73} \times 100 \approx 4.5\%$$

Question 82

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

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

Answer: C

Explanation:

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

We know that, $(1 - \sin^2 A) = \cos^2 A$

$$\text{Taking square root on both sides, } \Rightarrow \sqrt{1 - \sin^2 A} = \sqrt{\cos^2 A} = \cos A$$

Substituting it in above equation, we get

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

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Question 83

A can do a work in 15 days and B in 20 days. If they work on it together for 6 days, then what fraction of work is left?

- A $1/4$
- B $2/9$
- C $1/5$
- D $3/10$

Answer: D

Explanation:

Let total work to be done = 60 units

$$\text{A's efficiency} = \frac{60}{15} = 4 \text{ units/day}$$

$$\text{B's efficiency} = \frac{60}{20} = 3 \text{ units/day}$$

$$\Rightarrow (\text{A} + \text{B})\text{'s 1 day's work} = 4 + 3 = 7 \text{ units/day}$$

$$\text{Work done by A and B together in 6 days} = 6 \times 7 = 42 \text{ units}$$

$$\Rightarrow \text{Work left} = 60 - 42 = 18 \text{ units}$$

$$\therefore \text{Fraction of work that is left} = \frac{18}{60} = \frac{3}{10}$$

Question 84

What is the value of $(1+\cos A)/(1-\cos A)$?

- A $(\operatorname{cosec} A - \cot A)^2$
- B $(\operatorname{cosec} A + \cot A)^2$
- C $(\sec A + \cot A)^2$
- D $(\sec A - \cot A)^2$

Answer: B

Explanation:

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

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

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

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

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

$$= (\operatorname{cosec} A + \cot A)^2$$

Question 85

What are the coordinates of the mid point of the segment joining points C(5,2) and D(-1,-8).

- A (2, 3)
- B (2, -3)
- C (-2, -3)
- D (-2, 3)

Answer: B

Explanation:

Coordinates of the mid point of the segment joining points (x_1, y_1) and $(x_2, y_2) = \left(\frac{x_1+x_2}{2}, \frac{y_1+y_2}{2} \right)$

Thus, coordinates of the mid point of the segment joining points C(5,2) and D(-1,-8)

$$= \left(\frac{5-1}{2}, \frac{2-8}{2} \right)$$

$$= \left(\frac{4}{2}, \frac{-6}{2} \right)$$

$$= (2, -3)$$

=> Ans - (B)

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Question 86

The line passing through (3,1) and (0,2) is perpendicular to the line passing through (5,7) and (4,x). What is the value of x?

- A 4
- B 1

C 2

D 3

Answer: A

Explanation:

$$\text{Slope of line passing through } (3,1) \text{ and } (0,2) = \frac{(2-1)}{(0-3)} = \frac{-1}{3}$$

$$\text{Slope of line passing through } (5,7) \text{ and } (4,x) = \frac{(x-7)}{(4-5)} = -(x-7)$$

Also, product of slopes of line which are perpendicular to each other = -1

$$\Rightarrow -(x-7) \times \frac{-1}{3} = -1$$

$$\Rightarrow (x-7) = -3$$

$$\Rightarrow x = 7 - 3 = 4$$

Question 87

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

A 2

B 5

C 4

D -5

Answer: A

Explanation:

$$\text{Expression 1 : } 2(3x-4) - 2 < 4x - 2$$

$$\Rightarrow 6x - 8 - 2 < 4x - 2$$

$$\Rightarrow 6x - 4x < -2 + 10$$

$$\Rightarrow 2x < 8$$

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

$$\text{Expression 2 : } 4x - 2 \geq 2x - 4$$

$$\Rightarrow 4x - 2x \geq -4 + 2$$

$$\Rightarrow 2x \geq -2$$

$$\Rightarrow x \geq -1 \text{ -----(ii)}$$

Combining inequalities (i) and (ii), we get : $-1 \leq x < 4$

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

\Rightarrow Ans - (A)

Question 88

Expand and simplify expand and simplify : $(3x+2)^2 \times (4x-3) - (2x^3 - 9x^2 + 12x - 24)$

A $34x^3 + 30x^2 - 32x - 12$

B $34x^3 + 30x^2 - 32x + 12$

C $34x^3 - 30x^2 - 32x + 12$

D $34x^3 - 30x^2 + 32x - 12$

Answer: B

Explanation:

Expression : $(3x + 2)^2 \times (4x - 3) - (2x^3 - 9x^2 + 12x - 24)$

= $[(9x^2 + 4 + 12x) \times (4x - 3)] + (-2x^3 + 9x^2 - 12x + 24)$

= $(36x^3 - 27x^2) + (16x - 12) + (48x^2 - 36x) + (-2x^3 + 9x^2 - 12x + 24)$

= $(36x^3 - 2x^3) + (-27x^2 + 48x^2 + 9x^2) + (16x - 36x - 12x) + (-12 + 24)$

= $34x^3 + 30x^2 - 32x + 12$

=> Ans - (B)

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Question 89

An angle is smaller than its supplementary angle by 50° . What is the measure of the angle?

A 115°

B 60°

C 30°

D 65°

Answer: D

Explanation:

Let the angle = θ

Its supplementary angle = $(\theta + 50^\circ)$

Sum of an angle and its supplementary angle = 180°

=> $\theta + (\theta + 50^\circ) = 180^\circ$

=> $2\theta = 180^\circ - 50^\circ = 130^\circ$

=> $\theta = \frac{130}{2} = 65^\circ$

Question 90

A bank offers 10% compound interest per half year. A customer deposits Rs. 2000 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 1240

B Rs 310

C Rs 155

D Rs 305

Answer: D

Explanation:

Principal = Rs. 2000 and Rate = 10 %

Amount on half yearly basis = $P(1 + \frac{R}{2 \times 100})^{2 \times T}$

= $[2000(1 + \frac{10}{2 \times 100})^{2 \times 1}] + [2000(1 + \frac{10}{2 \times 100})^{2 \times \frac{1}{2}}]$

$$= [2000 \times (\frac{21}{20})^2] + [2000 \times \frac{21}{20}]$$

$$= [5 \times 441] + [100 \times 21]$$

$$= 2205 + 2100 = \text{Rs. } 4,305$$

∴ Compound Interest = Rs.(4305 - 4000) = Rs. 305

Question 91

A cylindrical vessel of radius 7 cm is partially filled with water. By how much will the water level rise if a sphere of radius 6 cm is completely immersed in this water?

A 11.76 cm

B 17.64 cm

C 23.52 cm

D 5.88 cm

Answer: D

Explanation:

Radius of sphere, $R = 6$ cm

Radius of cylinder, $r = 7$ cm and height of cylinder = h cm

The rise in water level is equal to the height of cylinder when volumes of both solids is equal.

⇒ Volume of cylinder = Volume of sphere

$$\Rightarrow \pi r^2 h = \frac{4}{3} \pi R^3$$

$$\Rightarrow (7)^2 \times h = \frac{4}{3} \times (6)^3$$

$$\Rightarrow h = \frac{4 \times 72}{49} = 5.88 \text{ cm}$$

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Question 92

In a rhombus

A Diagonals are equal and perpendicular

B Consecutive angles are equal

C Consecutive angles are supplementary

D Adjacent sides are not equal

Answer: C

Explanation:

In a rhombus, all sides are equal and diagonals are not equal. Also, opposite angles are equal and thus consecutive angles are supplementary.

⇒ Ans - (C)

Question 93

If $a - b = 3$ and $ab = 28$, then $a^3 - b^3$ is

A 279

B 387

C 513

D 91

Answer: A

Explanation:

Equation 1 : $a - b = 3$

$\Rightarrow a = 3 + b$

Equation 2 : $a \times b = 28$

Substituting value of 'a' in equation 2, we get :

$\Rightarrow (3 + b)b = 28$

$\Rightarrow 3b + b^2 = 28$

$\Rightarrow b^2 + 3b - 28 = 0$

$\Rightarrow b^2 - 4b + 7b - 28 = 0$

$\Rightarrow b(b - 4) + 7(b - 4) = 0$

$\Rightarrow (b - 4)(b + 7) = 0$

$\Rightarrow b = 4, -7$

$\Rightarrow a = 7, -4$

$\therefore a^3 - b^3 = (7)^3 - (4)^3$ (or) $(-4)^3 - (-7)^3$

$= 343 - 64 = 279$

Question 94

Daily local train ticket costs Rs 30 and Monthly Pass costs Rs 670.8. If I buy the Monthly Pass and travel for 26 days in a month than I save?

A 12 percent

B 14 percent

C 25 percent

D 10 percent

Answer: B

Explanation:

Train ticket cost for 1 day = Rs. 30

\Rightarrow Cost for 26 days = $26 \times 30 =$ Rs. 780

Cost of monthly pass = Rs. 670.8

\Rightarrow Money saved = $780 - 670.8 =$ Rs. 109.2

\therefore Required % = $\frac{109.2}{780} \times 100 = 14\%$

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Question 95

When a number is increased by 18, it becomes 106% of itself. What is the number?

- A 300
- B 216
- C 270
- D 162

Answer: A

Explanation:

Let the number be $100x$

$$\text{According to ques, } \Rightarrow 100x + 18 = \frac{106}{100} \times 100x$$

$$\Rightarrow 100x + 18 = 106x$$

$$\Rightarrow 106x - 100x = 18$$

$$\Rightarrow x = \frac{18}{6} = 3$$

$$\therefore \text{Number} = 100 \times 3 = 300$$

\Rightarrow Ans - (A)

Question 96

Two fractions are such that their product is $\frac{2}{5}$ and sum is $\frac{19}{15}$. What are the two fractions.

- A $\frac{4}{3}, \frac{3}{10}$
- B $\frac{2}{7}, \frac{7}{5}$
- C $\frac{4}{7}, \frac{7}{10}$
- D $\frac{2}{3}, \frac{3}{5}$

Answer: D

Explanation:

Let the two numbers be x and y

$$\Rightarrow x + y = \frac{19}{15} \text{ and } x.y = \frac{2}{5}$$

$$\Rightarrow x\left(\frac{19}{15} - x\right) = \frac{2}{5}$$

$$\Rightarrow x\left(\frac{19-15x}{15}\right) = \frac{2}{5}$$

$$\Rightarrow 19x - 15x^2 = 6$$

$$\Rightarrow 15x^2 - 19x + 6 = 0$$

$$\Rightarrow 15x^2 - 10x - 9x + 6 = 0$$

$$\Rightarrow 5x(3x - 2) - 3(3x - 2) = 0$$

$$\Rightarrow (5x - 3)(3x - 2) = 0$$

$$\Rightarrow x = \frac{3}{5}, \frac{2}{3}$$

Question 97

Read the table and answer the given question

	No of Employees	Annual salary	Bonus Percent of salary
Mnager	2	60	50%
Executive	8	20	20%
Trainee	4	4	10%

What is the total bonus in rupees ?

- A 9359994
- B 668571
- C 280000
- D 344000

Answer: B

Explanation:

Total bonus of managers (in lakh) = $2 \times 60 \times \frac{50}{100} = 60$ lakhs

Total bonus of executive (in lakh) = $8 \times 20 \times \frac{20}{100} = 32$ lakhs

Total bonus of trainee (in lakh) = $4 \times 4 \times \frac{10}{100} = 1.6$ lakhs

=> Average bonus in rupees = $\frac{(60+32+1.6)}{(2+8+4)}$

= $\frac{93.6}{14} = 6.68571$ lakhs = 6,68,571

=> Ans - (B)

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Question 98

Read the given data and answer the questions

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

For which of the following pairs of years the total exports from the three Companies together are equal?

- A 2011 & 2013
- B 2013 & 2014
- C 2011 & 2012
- D 2014 & 2015

Answer: B

Explanation:

Total exports from the three companies together in :

2011 = 2000 + 5000 + 1000 = 8000

2012 = 5000 + 2000 + 4000 = 11000

2013 = 4000 + 3000 + 3000 = 10000

$$2014 = 4000 + 2000 + 4000 = 10000$$

$$2015 = 4000 + 5000 + 4000 = 13000$$

Clearly, total exports in 2013 and 2014 are equal to 10000

=> Ans - (B)

Question 99

Read the table and answer the Questions

Years	Profit/(-loss) in crores
2011	5
2012	-15
2013	-15
2014	15
2015	-10

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

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

Answer: B

Explanation:

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

$$= 5 - 15 - 15 + 15 - 10$$

$$= 5 - 25 = -20$$

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

=> Ans - (B)

Question 100

Read the data and answer the given questions

India's Exports in 2015	Value in Million US \$
Jewellery	750
Softyware	725
Cotton	700
Steel	700
Electronics	725

Steel was what percent of the exports?

- A 24.44 percent
- B 21.94 percent
- C 19.44 percent
- D 16.94 percent

Answer: C

Explanation:

Value in millions of Steel = 700

Total exports = 750 + 725 + 700 + 700 + 725 = 3600

=> % of Steel in total exports = $\frac{700}{3600} \times 100$

= $\frac{700}{36} = 19.44\%$

=> Ans - (C)

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