



SSC CHSL 22 Jan 2017 Morning Shift

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Instructions

For the following questions answer them individually

Question 1

Improve the bracketed part of the sentence.

Let us hurry, or else the bus (will be leaving) the stop by the time we reach there.

- A will leave
- B will have left
- C would have left
- D no improvement

Answer: B

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Question 2

Improve the bracketed part of the sentence.

I won't be able to leave for office until they (arrive).

- A have arrived
- B had arrived
- C will have arrived
- D no improvement

Answer: A

Question 3

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.

"O, what a beautiful lake that is!" said she.

- A She exclaimed joyfully that that was a very beautiful lake.
- B She exclaimed joyfully it was a very beautiful lake.
- C She exclaimed joyfully that was a very beautiful lake.
- D She exclaimed joyfully that it was a very beautiful lake.

Answer: A

Question 4

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

X marks the spot

- A A very popular place

- B Not to tell others of a fantastic discovery
- C The exact location
- D A secret hideout

Answer: C

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Question 5

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase. to use for the first time

- A paten
- B smitten
- C begotten
- D christen

Answer: D

Question 6

Select the synonym of synchronicity

- A conformity
- B conflict
- C vendetta
- D altercation

Answer: A

Question 7

Rearrange the parts of the sentence in correct order.

The atmosphere

P-is against them, but there appears

Q-in their administrations

R-to be fight left

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

Answer: C

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Question 8

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 weather disrupted the final match.

- A The final match has been disrupted by the weather.
- B The final match had been disrupted by the weather.
- C The final match was disrupted by the weather.
- D The final match was being disrupted by the weather.

Answer: C

Question 9

Select the word with the correct spelling.

- A fibrossis
- B quaries
- C arobics
- D homilies

Answer: D

Question 10

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase. to expel large quantities of (something) rapidly and forcibly

- A to irrupt
- B to puke
- C to spew
- D to spritz

Answer: C

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Question 11

Select the synonym of accolade

- A bungle
- B performance
- C fiasco
- D distinction

Answer: D

Question 12

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'.

One of the state(A)/in which there was a severe drought(B)/last year is Maharashtra.(C)/No error(D)

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

Answer: A

Question 13

Select the word with the correct spelling.

- A leukeamia
- B steeplees
- C feminism
- D mendril

Answer: C

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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'.

The stock was (A)/divided among(B)/the two brothers.(C)No error(D)

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

Answer: B

Question 15

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. Please be patient. All your grievances will be _____.

- A settled
- B satisfied
- C solved
- D attended

Answer: A

Question 16

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 _____ my black leather shoes till they shine.

- A scrub
- B rub
- C brush
- D polish

Answer: D

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Question 17

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

You can say that again

- A To challenge someone
- B To express agreement
- C To politely ask someone to repeat
- D A favourite story

Answer: B

Question 18

Select the antonym of astringe

- A liberate
- B constringe
- C circumscribe
- D tauten

Answer: A

Question 19

Rearrange the parts of the sentence in correct order.

The idea was

P-to spend as little money

Q-while avoiding loss of lives

R-as possible

- A RPQ
- B QPR

C QRP

D PQR

Answer: D

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Question 20

Select the antonym of abdicate

A forgo

B usurp

C waive

D cede

Answer: B

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.

We now have a peculiar combination _____ the economic policy of India: a declared attempt at fiscal consolidation, combined with a _____ to do what it takes to raise tax revenues. This unfortunate _____ has meant a squeeze _____ Central government expenditures, and particularly those relating to social spending that directly _____ most people in the country.

Question 21

We now have a peculiar combination _____ the economic policy of India

A into

B in

C of

D about

Answer: B

Question 22

combined with a _____ to do what it takes to raise tax revenues.

A doubt

B objection

C questioning

D reluctance

Answer: D

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Question 23

This unfortunate _____ has meant a squeeze

- A juxtaposition
- B nearness
- C contact
- D proximity

Answer: A

Question 24

_____ Central government expenditures

- A onto
- B on
- C upon
- D for

Answer: B

Question 25

social spending that directly _____ most people in the country.

- A effects
- B affected
- C affects
- D affect

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.

Doctor : Patient :: Shopkeeper : ?

- A Products
- B Customer
- C Retailer
- D Games

Answer: B

Explanation:

Professional relationship between two parties is given. Doctor deals with patients, similarly a shopkeeper deals with customers.

=> Ans - (B)

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Question 27

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

EF : GH :: IJ : ?

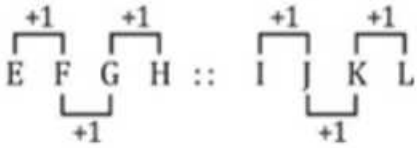
- A MN
- B LK
- C KL
- D GH

Answer: C

Explanation:

Expression = EF : GH :: IJ : ?

The pattern followed is :



Thus, IJ : KL

=> Ans - (C)

Question 28

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

AE : FJ :: ? : PT

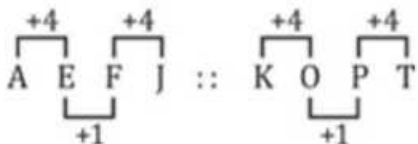
- A OK
- B KO
- C DE
- D FG

Answer: B

Explanation:

Expression = AE : FJ :: ? : PT

The pattern followed is :



Thus, KO : PT

=> Ans - (B)

Question 29

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

96 : 54 :: 89 : ?

A 76

B 72

C 67

D 64

Answer: B

Explanation:

Expression = 96 : 54 :: 89 : ?

The second number is the product of digits of first number.

Eg :- $9 \times 6 = 54$

Similarly, $8 \times 9 = 72$

=> Ans - (B)

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Question 30

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

A Magenta

B Maroon

C Turquoise

D Picasa

Answer: D

Explanation:

Except Picasa, other three are colors, hence it is the odd one out.

=> Ans - (D)

Question 31

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

A AI

B OU

C AD

D IO

Answer: C

Explanation:

Except AD other three are pair of vowels, hence it is the odd one out.

=> Ans - (C)

Question 32

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

A 3

B 2

C 5

D 1

Answer: D

Explanation:

Except 1 other three are prime numbers, hence it 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 525

B 745

C 636

D 416

Answer: B

Explanation:

The last two digits is the square of the first digit.

$$6^2 = 36, 5^2 = 25, 4^2 = 16$$

$$\text{But } 7^2 = 49 \neq 45$$

=> Ans - (B)

Question 34

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

Nitrogen fixation, Ammonification, Nitrification, ?

A Denitrification

B Nitrate

C Decomposer

D Fossil Fuel

Answer: A

Explanation:

Steps in Nitrogen cycle are given.

= Nitrogen fixation -> Ammonification -> Nitrification -> Denitrification

=> Ans - (A)

Question 35

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

CEA, GIE, KMI, ?

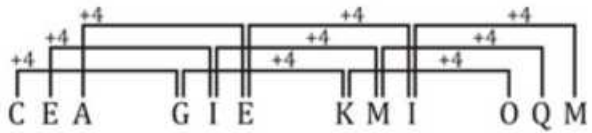
- A NOP
- B OPM
- C OQM
- D LMN

Answer: C

Explanation:

Expression : CEA, GIE, KMI, ?

The pattern followed is that :



Thus, missing term = OQM

=> Ans - (C)

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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.

CD, XW, GH, TS, KL, ?

- A QP
- B PO
- C OP
- D PQ

Answer: B

Explanation:

Expression : CD, XW, GH, TS, KL, ?

Odd terms : Consecutive pairs of English alphabets are written after a gap of two letters.

Eg :- CD (+3 letters) = GH (+3 letters) = KL

Similarly for even terms, pairs are written in inverse order.

= XW (-3 letters) = TS (-3 letters) = PO

=> 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.

9, 26, 60, 111, ?

- A 128
- B 179
- C 162
- D 145

Answer: B

Explanation:

Multiples of 17 are added.

$$9 + 17 = 26$$

$$26 + 34 = 60$$

$$60 + 51 = 111$$

$$111 + 68 = \mathbf{179}$$

=> Ans - (B)

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 dogs are rats.

(II) Some rats are lizards.

Conclusion:

(I) Some dogs are lizards.

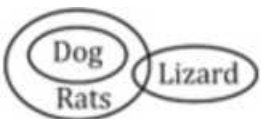
(II) Some lizards are dogs.

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

Answer: C

Explanation:

The venn diagram for above statements is :



Conclusion:

(I) Some dogs are lizards = false

(II) Some lizards are dogs = false

Thus, neither I nor II follows

=> Ans - (C)

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Question 39

In a family, Virendra's weight is more than Parminder's weight. Parminder's weight is less than Kuldeep's weight but more than Gurjeet's weight. The sum of Kuldeep's weight and Tommy's weight is equal to the weight of Virendra. Who is the heaviest in the family?

- A Virendra
- B Kuldeep
- C Gurjeet
- D Parminder

Answer: A

Explanation:

Let weights of Virendra, Parminder, Kuldeep, Gurjeet and Tommy be respectively represented as V, P, K, G, T

Virendra's weight is more than Parminder's weight, $\Rightarrow V > P$

Parminder's weight is less than Kuldeep's weight but more than Gurjeet's weight, $\Rightarrow K > P > G$

The sum of Kuldeep's weight and Tommy's weight is equal to the weight of Virendra, $\Rightarrow K + T = V$

\Rightarrow Virendra's weight is more than Kuldeep and Tony's wight individually.

Thus, combining above statements, we get : $V > K > P > G$

\therefore Virendra is the heaviest in the family.

\Rightarrow Ans - (A)

Question 40

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

- i. Gesture
- ii. Germination
- iii. Geriatric
- iv. Genetic

- A i, ii, iii, iv
- B iv, iii, ii, i
- C iii, ii, iv, i
- D iv, ii, iii, i

Answer: B

Explanation:

As per the order of dictionary :

= Genetic -> Geriatric -> Germination -> Gesture

\equiv iv, iii, ii, i

\Rightarrow Ans - (B)

Question 41

In a certain code language "CANADA" is written as "BZMBEB". How is "SYDNEY" written in that code language?

- A RXOCFZ
- B OFZRXC

C RXCOFZ

D ZFOCXR

Answer: C

Explanation:

"CANADA" is written as "BZMBEB"

The pattern followed is :

C	A	N	A	D	A
↑+1	↑+1	↑+1	↓-1	↓-1	↓-1
B	Z	M	B	E	B

Similarly, for SYDNEY :

S	Y	D	N	E	Y
↑+1	↑+1	↑+1	↓-1	↓-1	↓-1
R	X	C	O	F	Z

=> Ans - (C)

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Question 42

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

13	F	14
6	?	3
7	H	9

A P

B L

C Q

D R

Answer: B

Explanation:

The pattern followed is that the alphabets are numbered alphabetically, A=1, B=2, C=3 and so on and the sum of each column is same.

$$\text{Eg :- } 13 + 6 + 7 = 26$$

$$\text{and } 14 + 3 + 9 = 26$$

$$\text{Similarly, F=6 and H=8, } \Rightarrow 6 + 8 + x = 26$$

$$\Rightarrow x = 26 - 14 = 12 \equiv L$$

=> Ans - (B)

Question 43

If "S" denotes "multiplied by", "V" denotes "subtracted from", "M" denotes "added to" and "L" denotes "divided by", then

$$10 \text{ V } 12 \text{ M } 42 \text{ L } 6 \text{ S } 4 = ?$$

A 26

B 24

C 20

D 28

Answer: A

Explanation:

Expression : $10 - 12 + 42 \div 6 \times 4 = ?$

$$\equiv 10 - 12 + 42 \div 6 \times 4$$

$$= -2 + (7 \times 4)$$

$$= -2 + 28 = 26$$

=> 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?
p_r_s_q_p_rs

A qrspq

B qsrpq

C qsrqq

D qsprq

Answer: B

Explanation:

The pattern followed is that in groups of 4, the term 'pqrs' is alternatively repeated in this and reverse order.

= pqrs srqp pqrs

=> Ans - (B)

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Question 45

Rohan, after walking 5 km towards west, turns left and then walks for 12 km more. Find the shortest distance between his initial and final position.

A 13 km

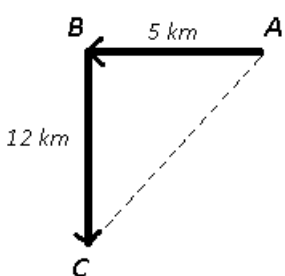
B 7 km

C 6 km

D 17 km

Answer: A

Explanation:



Let Rohan start from point A walked 5 km towards west to reach point B, then he turns left and then walks for 12 km towards south to reach point C.

reach C.

$$\text{Thus, } (AC)^2 = (AB)^2 + (BC)^2$$

$$\Rightarrow (AC)^2 = (5)^2 + (12)^2$$

$$\Rightarrow (AC)^2 = 25 + 144 = 169$$

$$\Rightarrow AC = \sqrt{169} = 13 \text{ km}$$

\Rightarrow Ans - (A)

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, 'S' can be represented by 42, 43, etc., and 'J' can be represented by 78, 79, etc. Similarly, you have to identify the set for the word 'TERM'.

Matrix - I

	0	1	2	3	4
0	A	R	U	T	P
1	A	R	T	P	P
2	O	T	R	O	A
3	T	N	N	R	A
4	U	Q	S	S	S

Matrix - II

	5	6	7	8	9
5	V	E	V	M	K
6	H	E	M	I	K
7	H	M	E	J	J
8	M	F	D	E	L
9	V	H	C	E	L

A 21, 77, 33, 76

B 12, 76, 22, 85

C 30, 66, 89, 76

D 31, 98, 33, 58

Answer: A

Explanation:

(A) : 21, 77, 33, 76 = TERM

(B) : 12, 76, 22, 85 = TMRM

(C) : 30, 66, 89, 76 = TELM

(D) : 31, 98, 33, 58 = NERM

\Rightarrow Ans - (A)

Question 47

B is the brother of A, and A is the son of C. D is C's father. How is B related to D?

A Grandfather

B Brother

C Grandson

D Father

Answer: C

Explanation:

B is the brother of A, and A is the son of C, => B and A are sons of C.

D is C's father.

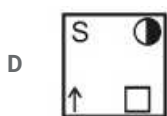
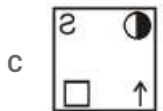
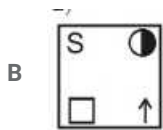
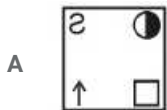
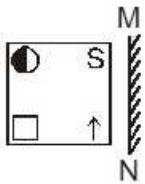
Thus, B is the grandson of D.

=> Ans - (C)

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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?



Answer: A

Explanation:

If a mirror is placed on the line MN,

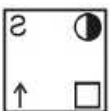
The facing of the figure to the left and right direction changes to opposite direction in mirror image (right facing changes to left and vice versa). There won't be change in shape of the figure in the mirror image.

The circle on the top left side which dark towards left will be on the top right side and dark towards right in the mirror image

The square on the bottom left will be on the bottom right in the mirror image

The arrow symbol on the bottom right will be on the bottom left in the mirror image

The letter S on the top right will be on the top left in the mirror image and the mirror image of S will be as shown in the below figure

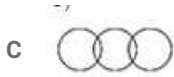
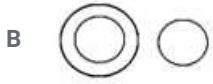


Hence, the correct answer is Option A

Question 49

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

Electrons, Nucleus, Neutrons

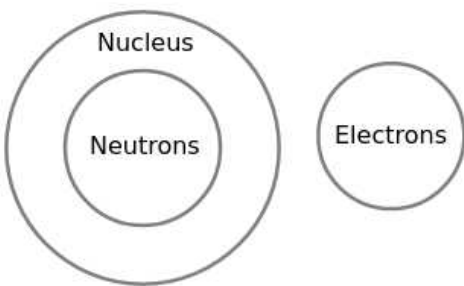


Answer: B

Explanation:

Nucleus consists of Protons and Neutrons. Electrons are different particles.

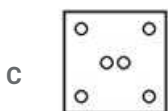
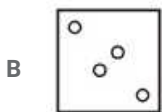
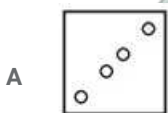
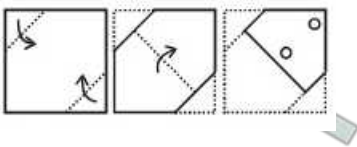
∴ The diagram that best represents the relationship between them is

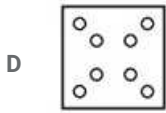


Hence, the correct answer is Option B

Question 50

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





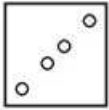
Answer: A

Explanation:

When the paper is unfolded first to the bottom, two circles will appear similarly at the bottom part.

When the paper is unfolded again, no cutting part will appear at the unfolded part of the paper.

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



Hence, the correct answer is Option A

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General Awareness

Instructions

For the following questions answer them individually

Question 51

Ajanta Caves in Maharashtra have rock-cut cave monuments of which religion?

- A Sikhism
- B Buddhism
- C Christianity
- D Hinduism

Answer: B

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Question 52

Highest Civilian Honour received by Saina Nehwal is

- A Padma Shri
- B Padma Bhushan
- C Padma Vibhushan
- D Bharat Ratna

Answer: B

Question 53

The yellow colour of human urine is due to

- A Bile Salts

- B Cholesterol
- C Lymph
- D Urochrome

Answer: D

Question 54

The wilting of plants takes place due to ____.

- A Photosynthesis
- B Transpiration
- C Absorption
- D Respiration

Answer: B

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Question 55

Bovidae Ovis is the scientific name of ____.

- A Goat
- B Cow
- C Buffalo
- D Sheep

Answer: D

Question 56

Which glass is used to make spectacles?

- A Crook's glass
- B Potash glass
- C Jena glass
- D Soda glass

Answer: A

Question 57

Barium loses ____ electrons to achieve noble gas electron configuration.

- A 1
- B 2
- C 3

D 4

Answer: B

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Question 58

Who is known as the father of computing?

- A Charles Faraday
- B Michael Jonathan
- C Charles Babbage
- D Douglas Well

Answer: C

Question 59

Telugu is the official language of _____.

- A Andhra Pradesh
- B Arunachal Pradesh
- C Assam
- D Bihar

Answer: A

Question 60

If demand curve for trekking boots is $D = 67500 - 18P$ and supply curve is $S = 22500 + 12P$, find the equilibrium Price?

- A 1500
- B 750
- C 2250
- D 500

Answer: A

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Question 61

Full employment is the level at which there is _____.

- A no frictional unemployment
- B no cyclical unemployment
- C no structural unemployment
- D no unemployment

Answer: B

Question 62

Plants get their energy to produce food from which of the following?

- A Photosynthesis
- B Bacteria
- C Fungi
- D Sun

Answer: D

Question 63

Sundarbans Tiger Reserve is in which state?

- A Orissa
- B Andhra Pradesh
- C Assam
- D West Bengal

Answer: D

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Question 64

Ad Valorem tax is levied on which quantity?

- A Value
- B Volume
- C Production
- D Export

Answer: A

Question 65

What is the approximate circumference of earth?

- A 40,000 Km
- B 60,000 Km
- C 80,000 Km
- D 1,00,000 Km

Answer: A

Question 66

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

- A 5
- B 6
- C 7
- D 8

Answer: C

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Question 67

Whose reign in Indian History is called the Golden Age of India?

- A Mughal Empire
- B Maratha Empire
- C Gupta Empire
- D Maurya Empire

Answer: C

Question 68

What were the names of Atom Bombs dropped on Japan?

- A Little Boy & Fat Man
- B Little Man & Fat Boy
- C Little Girl & Fat Woman
- D Little Woman & Fat Girl

Answer: A

Question 69

Who discovered Pluto?

- A Jim Maxwell
- B Tim Heynman
- C Myne Ketteborough
- D Clyde Tombaugh

Answer: D

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Question 70

As per Newton's law of gravitation, the force between two bodies is _____.

- A directly proportional to the product of their masses
- B directly proportional to the distance between them
- C directly proportional to the product of their radius
- D directly proportional to the product of forces

Answer: A

Question 71

Sound can not travel in which medium?

- A Solid
- B Liquid
- C Gas
- D Vacuum

Answer: D

Question 72

Who was the second woman to become the president of the Indian National Congress in 1925 and the first Indian woman to do so?

- A Vijaylakshmi Pandit
- B Sarojini Naidu
- C Padmaja Naidu
- D Fathima Bibi

Answer: B

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Question 73

The number of parliamentary seats (Lok Sabha) of Gujarat is

- A 10
- B 26
- C 28
- D 48

Answer: B

Question 74

Geet Sethi is associated with which game?

- A Billiards
- B Cricket
- C Hockey
- D Chess

Answer: A

Question 75

Who is the author of "Two States"?

- A Chetan Bhagat
- B Rohit Sharma
- C Amish
- D Devdutta Patnaik

Answer: A

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Mathematics

Instructions

For the following questions answer them individually

Question 76

What is the value of $\sin 330^\circ$?

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

Answer: D

Explanation:

Expression : $\sin 330^\circ$

$$= \sin(360 - 30)$$

$$= -\sin(30)$$

$$= \frac{-1}{2}$$

=> Ans - (D)

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Question 77

If the amount received at the end of 2nd and 3rd year at Compound Interest on a certain Principal is Rs 22472, and Rs 23820.32 respectively, what is the rate of interest?

- A 3 percent
- B 6 percent
- C 12 percent
- D 10 percent

Answer: B

Explanation:

Compound interest at the end of 2nd year = Rs. 22,472

Compound interest at the end of 3rd year = Rs. 23,820.32

=> Difference = 23820.32 - 22472 = Rs. 1348.32

This is the interest obtained on the amount of 2nd year.

$$\therefore \text{Rate of interest, } r = \frac{1348.32}{22472} \times 100 = 6\%$$

=> Ans - (B)

Question 78

Reflection of the point (2,-4) in the origin is

- A (2,4)
- B (-2,-4)
- C (2,-4)
- D (-2,4)

Answer: D

Explanation:

Reflection of point (a,b) in origin = (-a,-b)

=> Reflection of (2,-4) = (-2,4)

=> Ans - (D)

Question 79

The measures of the three angles of a triangle are in the ratio 3:4:5. What is the measure of the biggest angle?

- A 75°
- B 60°
- C 45°
- D 30°

Answer: A

Explanation:

Let the three angles of the triangle be $3x, 4x, 5x$

Sum of internal angles of a triangle = 180°

$$\Rightarrow 3x + 4x + 5x = 180^\circ$$

$$\Rightarrow 12x = 180^\circ$$

$$\Rightarrow x = \frac{180}{12} = 15^\circ$$

$$\therefore \text{Biggest angle} = 5x = 5 \times 15 = 75^\circ$$

=> Ans - (A)

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Question 80

The third proportional of two numbers 24 and 36 is ?

- A 48
- B 54
- C 72
- D 108

Answer: B

Explanation:

Three numbers a,b,c are in proportion iff $b^2 = ac$

Here, a = 24 and b = 36

$$\Rightarrow (36)^2 = 24 \times c$$

$$\Rightarrow c = \frac{36 \times 36}{24} = 3 \times 18$$

$$\Rightarrow c = 54$$

=> Ans - (B)

Question 81

A vendor buys apples at the rate of 21 for Rs 7 and sells at the rate of 5 for Rs 2. What will be the result?

- A 20 percent loss
- B 20 percent gain
- C 16.66 percent gain
- D 16.6 percent loss

Answer: B

Explanation:

The vendor buys 21 apples for Rs. 7

$$\Rightarrow \text{Cost price of 1 apple} = \frac{7}{21} = \text{Rs } 0.33$$

He sells 5 apples for Rs. 2

$$\Rightarrow \text{Selling price of 1 apple} = \frac{2}{5} = \text{Rs } 0.4$$

\therefore Selling price is more than Cost price, the vendor earns a profit

$$\Rightarrow \text{Profit \%} = \frac{(0.4 - 0.33)}{0.33} \times 100$$

$$= 0.67 \times 30 = 20\%$$

=> Ans - (B)

Question 82

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

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

Answer: A

Explanation:

Expression : $\frac{1}{\sqrt{1+\cot^2 A}}$

$\because (\operatorname{cosec}^2 A - \cot^2 A = 1)$

$= \frac{1}{\sqrt{\operatorname{cosec}^2 A}} = \frac{1}{\operatorname{cosec} A}$

$= \sin A$

=> Ans - (A)

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Question 83

If $3x-5(x-1) > 2x - 1 < 2 + 4x$; then x can take which of the following values?

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

Answer: D

Explanation:

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

=> $3x - 5x + 5 > 2x - 1$

=> $2x + 2x < 5 + 1$

=> $4x < 6$

=> $x < \frac{3}{2}$ -----(i)

Expression 2 : $2x - 1 < 2 + 4x$

=> $4x - 2x > -1 - 2$

=> $2x > -3$

=> $x > \frac{-3}{2}$ -----(ii)

Combining inequalities (i) and (ii), we get : $\frac{-3}{2} < x < \frac{3}{2}$

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

=> Ans - (D)

Question 84

If $x - y = -8$ and $xy = 45$, then $(x^2 + y^2)$

- A 154
- B 64
- C 90
- D 26

Answer: A

Explanation:

Given : $(x - y) = -8$ and $xy = 45$

Using $(x - y)^2 = x^2 + y^2 - 2xy$

$$\Rightarrow (-8)^2 = (x^2 + y^2) - (2 \times 45)$$

$$\Rightarrow (x^2 + y^2) = 64 + 90 = 154$$

\Rightarrow Ans - (A)

Question 85

Area of ____ equals square of its side.

- A Rhombus
- B Cyclic quadrilateral
- C Rectangle
- D Square

Answer: D

Explanation:

Area of square is equal to square of its side.

\Rightarrow Ans - (D)

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Question 86

Mahmood can do a piece of work in 40 hours. If he is joined by Janaki who is 50% more efficient, in what time will they together finish the work?

- A 2 hours
- B 6 hours
- C 16 hours
- D 3 hours

Answer: C

Explanation:

Let total work to be done = 80 units

$$\text{Mahmood's efficiency} = \frac{80}{40} = 2 \text{ units/hr}$$

$$\text{Janaki is 50\% more efficient than Mahmood, } \Rightarrow \text{Janaki's efficiency} = \frac{150}{100} \times 2 = 3 \text{ units/hr}$$

$$\Rightarrow \text{Mahmood and Janaki 1 day's work} = 2 + 3 = 5 \text{ units/hr}$$

∴ Time taken by them to finish the work together = $\frac{80}{5} = 16$ hours

⇒ Ans - (C)

Question 87

Product of digits of a 2-digit number is 24. If we add 45 to the number, the new number obtained is a number formed by interchange of the digits. What is the number?

A 83

B 64

C 46

D 38

Answer: D

Explanation:

Let the unit's digit of the number be y and ten's digit be x

⇒ Number = $10x + y$

Product of digits = $x \times y = 24$ -----(i)

According to question, ⇒ $10x + y + 45 = 10y + x$

⇒ $9y - 9x = 45$

⇒ $y - x = \frac{45}{9} = 5$ -----(ii)

Solving equation (i) and (ii), we get: $x = 3$ and $y = 8$

∴ Number = 38

⇒ Ans - (D)

Question 88

A solid right circular cone of radius 10 cm and height 8 cm is put inside a cylindrical vessel of radius 11 cm and height 9 cm. How much water in cubic cm will be required to fill the cylindrical vessel completely?

A 5168.96 cubic cms

B 2584.48 cubic cms

C 7753.44 cubic cms

D 1292.24 cubic cms

Answer: B

Explanation:

Radius of cylinder, $R = 11$ cm and height, $H = 9$ cm

Radius of cone, $r = 10$ cm and height, $h = 8$ cm

Water required to fill the cylinder completely = Volume of cylinder - Volume of cone

$$= (\pi R^2 H) - \left(\frac{1}{3} \pi r^2 h\right)$$

$$= (\pi) \left(R^2 H - \frac{1}{3} r^2 h\right)$$

$$= \left(\frac{22}{7}\right) \left[(11^2 \times 9) - \left(\frac{1}{3} \times 10^2 \times 8\right)\right]$$

$$= \left(\frac{22}{7}\right) \left(1089 - \frac{800}{3}\right)$$

$$= \frac{22}{7} \times \frac{2467}{3}$$

$$\approx 2584.48 \text{ cm}^3$$

=> Ans - (B)

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Question 89

If $\frac{\sin A}{1 + \cos A} = x$, then x is

A $\operatorname{cosec} A + \cot A$

B $\sec A - \cot A$

C $\sec A + \cot A$

D $\operatorname{cosec} A - \cot A$

Answer: D

Explanation:

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

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

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

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

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

$$= \operatorname{cosec} A - \cot A$$

=> Ans - (D)

Question 90

To cover a distance of 252 km in 2.5 hours what should be the average speed of the car in meters/second?

A 100.8 m/s

B 50.4 m/s

C 28 m/s

D 56 m/s

Answer: C

Explanation:

The car covers 252 km in 2.5 hours

$$\text{Speed of car (in km/h)} = \frac{252}{2.5} = 100.8 \text{ km/hr}$$

$$\Rightarrow \text{Speed of car (in m/s)} = 100.8 \times \frac{5}{18}$$

$$= 5.6 \times 5 = 28 \text{ m/s}$$

=> Ans - (C)

Question 91

In a class of 39 students there are 36 girls. The average weight of these girls is 38 Kg and average weight of the full class is 40 kgs. What is the average weight of the boys of the class?

- A 42
- B 64
- C 20
- D 62

Answer: B

Explanation:

Total number of students = 39 and number of girls = 36

=> Number of boys in class = 39 - 36 = 3

Average weight of girls = 38 kg

=> Total weight of girls = $38 \times 36 = 1368$ kg

Similarly, total weight of full class = $40 \times 39 = 1560$ kg

=> Total weight of boys = $1560 - 1368 = 192$ kg

∴ Average weight of boys = $\frac{192}{3} = 64$ kg

=> Ans - (B)

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Question 92

Marked price of an item is Rs 300. On purchase of 2 items discount is 24%, on purchase of 5 items discount is 38%. Rachna buys 7 items, what is the effective discount?

- A 17.5 percent
- B 20.4 percent
- C 34 percent
- D 12.8 percent

Answer: C

Explanation:

Marked price of item = Rs. 300

=> Marked price of 2 items = $2 \times 300 = \text{Rs. } 600$

Amount saved on buying 2 items = $\frac{24}{100} \times 600 = \text{Rs. } 144$

Marked price of 5 items = $5 \times 300 = \text{Rs. } 1500$

Amount saved on buying 5 items = $\frac{38}{100} \times 1500 = \text{Rs. } 570$

Thus, on buying 7 items, total amount saved = $144 + 570 = \text{Rs. } 714$

Total marked price of 7 items = $7 \times 300 = \text{Rs. } 2100$

∴ Effective discount = $\frac{714}{2100} \times 100$

= $\frac{714}{21} = 34\%$

=> Ans - (C)

Question 93

Factorise $24x^2 - 54x - 15$

A $3(2x + 5)(4x - 1)$

B $3(2x - 5)(4x + 1)$

C $2(3x - 5)(4x + 1)$

D $4(2x - 5)(3x + 1)$

Answer: B

Explanation:

Expression : $24x^2 - 54x - 15$

$= 3(8x^2 - 18x - 5)$

$= 3(8x^2 + 2x - 20x - 5)$

$= 3[2x(4x + 1) - 5(4x + 1)]$

$= 3(2x - 5)(4x + 1)$

=> Ans - (B)

Question 94

Two numbers are 40% and 50% lesser than a third number. By how much percent is the second number to be enhanced to make it equal to the first number?

A 16.67 percent

B 20 percent

C 10 percent

D 25 percent

Answer: B

Explanation:

Let third number = $100x$

First number is 40% less than $100x$ and second number is 50% less than $100x$

=> First number = $60x$ and Second number = $50x$

To make second number equal to first number, it should be enhanced by = $60x - 50x = 10x$

=> Required % = $\frac{10x}{50x} \times 100 = 10 \times 2 = 20\%$

=> Ans - (B)

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Question 95

The line passing through the point (5,a) and point (4,3) is perpendicular to the line $x - 6y = 8$. What is the value of 'a'?

A -3

B -2

C 4

D 5

Answer: A

Explanation:

Slope of line $x - 6y = 8$:

$$= \frac{-1}{-6} = \frac{1}{6}$$

Slope of line passing through the point $(5,a)$ and point $(4,3) = \frac{3-a}{4-5} = (a-3)$

Product of slopes of two perpendicular lines is -1

$$\Rightarrow (a-3) \times \frac{1}{6} = -1$$

$$\Rightarrow a - 3 = -6$$

$$\Rightarrow a = -6 + 3 = -3$$

\Rightarrow Ans - (A)

Question 96

The sum of all prime numbers between 18 and 32 is:

- A 99
- B 100
- C 102
- D 97

Answer: C

Explanation:

Sum of all prime numbers between 18 and 32 :

$$= 19 + 23 + 29 + 31$$

$$= 102$$

\Rightarrow Ans - (C)

Question 97

Refer the below data table and answer the following question

	Weight (kg)	Height (m)
Ashu	68	1.6
Aslam	62	1.75
Ayush	63	1.59
Ayushman	50	1.56

Who has the least weight to height ratio ?

- A Ashu
- B Aslam
- C Ayush
- D Ayushman

Answer: D

Explanation:

Ratio of weight to height

$$\text{Ashu} : \frac{68}{1.6} = 42.5$$

$$\text{Aslam} : \frac{62}{1.75} = 35.4$$

$$\text{Ayush : } 1.59^{\frac{63}{}} = 39.6$$

$$\text{Ayushman : } 1.56^{\frac{50}{}} = 32 \quad \text{[LEAST]}$$

=> Ans - (D)

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Question 98

Refer the below data table and answer the following question

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

What was the revenue of the company if its expenditure was Rs 650 crore in the year when its % profit was the least?

- A 682.5
- B 715
- C 747.5
- D 650

Answer: A

Explanation:

Profit % was least in 2014 = 5%

Let revenue = Rs. x crore and expenditure = Rs. 650 crore

$$\Rightarrow \text{Profit \%} = \frac{x-650}{650} \times 100 = 5$$

$$\Rightarrow \frac{x-650}{650} = \frac{5}{100} = \frac{1}{20}$$

$$\Rightarrow x - 650 = \frac{650}{20} = 32.5$$

$$\Rightarrow x = 650 + 32.5 = 682.5 \text{ crore}$$

=> Ans - (A)

Question 99

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

Number of Children	Number of Houses
0	3
1	7
2	12
3	7

What is the average number of children per house ?

- A 2.04
- B 1.79
- C 2.29
- D 1.54

Answer: B

Explanation:

Total number of houses = $3 + 7 + 12 + 7 = 29$

Total children = $(0 \times 2) + (1 \times 7) + (2 \times 12) + (3 \times 7)$

= $7 + 24 + 21 = 52$

\therefore Average number of children per house = $\frac{52}{29} = 1.79$

=> Ans - (B)

Question 100

Refer the below data table and answer the following question

Partners	Present % share
Anand	10
Basu	30
Chinmay	20
Dhiraj	5
Ejaz	35

If the company has issued 6 lakh shares between its five partners and if Basu offers to sell 15,000 of his shares to Dhiraj, then Dhiraj will have how many shares?

A 30000 shares

B 60000 shares

C 15000 shares

D 45000 shares

Answer: D

Explanation:

Total shares = 6,00,000

Original shares with Dhiraj = $\frac{5}{100} \times 600000 = 30,000$

If Basu offers to sell 15,000 of his shares to Dhiraj,

=> Shares with Dhiraj = $30,000 + 15,000 = 45,000$

=> Ans - (D)

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