



SSC CHSL 23 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.

Brave : Coward :: Culprit : ?

- A Hungry
- B Innocent
- C Accused
- D Indicted

Answer: B

Explanation:

Expression = Brave : Coward :: Culprit : ?

Brave and Coward are antonyms, similarly opposite of culprit is innocent.

=> Ans - (B)

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Question 2

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

LOGIC : OLTRX :: SOUND : ?

- A HOFMW
- B HLFWM
- C HFLMW
- D HLFMW

Answer: D

Explanation:

Expression = LOGIC : OLTRX :: SOUND : ?

The pattern followed is that the letters at the corresponding end are written.

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
↓	↓	↓		
Z	Y	X	W	V	U	T	S	R	Q	P	O	N	M	L	K	J	I	H	G	F	E	D	C	B	A

Similarly, SOUND : HLFMW

=> Ans - (D)

Question 3

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

BOTTOM : 85 :: DRUM : ?

- A 58
- B 54

C 56

D 59

Answer: C

Explanation:

Expression = BOTTOM : 85 :: DRUM : ?

The pattern followed is that the numerical values of the alphabets are added.

Eg :- BOTTOM = 2 + 15 + 20 + 20 + 15 + 13 = 85

Similarly, DRUM = 4 + 18 + 21 + 13 = 56

=> Ans - (C)

Question 4

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

523 : 325 :: 603 : ?

A 415

B 426

C 306

D 436

Answer: C

Explanation:

Expression = 523 : 325 :: 603 : ?

The pattern followed is that the second number is *reverse* of first number.

Similarly, reverse of 603 : **306**

=> Ans - (C)

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Question 5

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

A Night blindness

B Scurvy

C Beriberi

D AIDS

Answer: D

Explanation:

Except AIDS, other three are caused due to vitamin deficiency, hence it is the odd one out.

=> Ans - (D)

Question 6

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

A DEF

B GJM

C NQT

D BEH

Answer: A

Explanation:

(A) : D (+1 letter) = E (+1 letter) = F

(B) : G (+3 letters) = J (+3 letters) = M

(C) : N (+3 letters) = Q (+3 letters) = T

(D) : B (+3 letters) = E (+3 letters) = H

=> Ans - (A)

Question 7

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

A 636

B 525

C 416

D 327

Answer: D

Explanation:

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

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

$$\text{But } 3^2 = 9 \neq 27$$

=> Ans - (D)

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Question 8

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

A 6735

B 1983

C 1875

D 7361

Answer: D

Explanation:

The sum of digits of first three numbers is 21, hence 7361 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.

West Indies (CWC 1979), India (CWC 1983), Australia (CWC 1987), ?, Sri Lanka (CWC 1996) [Note: CWC Cricket World Cup]

- A Australia (CWC 1992)
- B Australia (CWC 1999)
- C England (CWC 1992)
- D Pakistan (CWC 1992)

Answer: D

Explanation:

The winners of Cricket World Cup in chronological order are given.

Thus, after 1987, Pakistan won in 1992

=> Ans - (D)

Question 10

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.
RS, WX, BC, ?

- A MO
- B IJ
- C GH
- D TU

Answer: C

Explanation:

Expression : RS, WX, BC, ?

The pattern followed in each letter of the terms is :

1st letter : R (+5 letters) = W (+5 letters) = B (+5 letters) = G

2nd letter : S (+5 letters) = X (+5 letters) = C (+5 letters) = H

Thus, missing term = **GH**

=> Ans - (C)

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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.
AB, JH, RM, YQ, ?

- A YZ
- B ZA
- C DE
- D ET

Answer: D

Explanation:

Expression : AB, JH, RM, YQ, ?

The pattern followed in each letter of the terms is :

1st letter : A (+9 letters) = J (+8 letters) = R (+7 letters) = Y (+6 letters) = E

2nd letter : B (+6 letters) = H (+5 letters) = M (+4 letters) = Q (+3 letters) = T

Thus, missing term = **ET**

=> 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.
2, 3, 5, 9, 17, ?

A 33

B 11

C 32

D 27

Answer: A

Explanation:

The pattern followed is :

$$2 + 2^0 = 3$$

$$3 + 2^1 = 5$$

$$5 + 2^2 = 9$$

$$9 + 2^3 = 17$$

$$17 + 2^4 = 33$$

=> Ans - (A)

Question 13

In the following question, two statements are given each followed by two conclusions I and II. You have to consider the statement 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 books are toys.

(II) No toy is red.

Conclusion:

(I) Some books are red.

(II) Some toys are books.

A Conclusion I follows

B Conclusion II follows

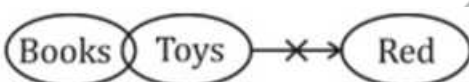
C Neither I nor II follows

D Both I and II follows

Answer: B

Explanation:

The venn diagram for above statements is :



Conclusion:

(I) Some books are red = false

(II) Some toys are books = true

Thus, only conclusion II follows

=> Ans - (B)

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Question 14

Farhan scored more runs than Raju. Simran scored more runs than Nitu but lesser runs than Raju. Who scored the highest runs?

- A Nitu
- B Farhan
- C Simran
- D Raju

Answer: B

Explanation:

Farhan scored more runs than Raju, => Farhan > Raju

Simran scored more runs than Nitu but lesser runs than Raju, => Raju > Simran > Nitu

Combining above statements, we get : **Farhan > Raju > Simran > Nitu**

∴ Farhan scored the highest runs.

=> Ans - (B)

Question 15

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

- i. Cease
- ii. Consecutive
- iii. Constructive
- iv. Cement

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

Answer: B

Explanation:

As per the order of dictionary :

= Cease -> Cement -> Consecutive -> Constructive

≡ i, iv, ii, iii

=> Ans - (B)

Question 16

In a certain code language, "DIAMOND" is written as "4895064" and "GAME" is written as "7953". How is "MANGO" written in that code language?

- A 59670

B 59607

C 56970

D 59671

Answer: A

Explanation:

The codes for each letter is given :

M -> 5

A -> 9

N -> 6

G -> 7

O -> 0

Thus, MANGO : 59670

=> Ans - (A)

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Question 17

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

13	17	20
5	9	10
174	298	?

A 410

B 402

C 526

D 625

Answer: A

Explanation:

In each column the number at the end is obtained by adding the square of the first number to the second number.

$$\text{Eg :- } (13)^2 + 5 = 169 + 5 = 174$$

$$(17)^2 + 9 = 289 + 9 = 298$$

$$\text{Similarly, } (20)^2 + 10 = 400 + 10 = 410$$

=> Ans - (A)

Question 18

If "#" means "subtraction", "&" means "division", "@" means "addition" and "%" means "multiplication" then $516 \& 6 \# 11 @ 50 \% 4 = ?$

A 210

B 274

C 250

D 275

Answer: D

Explanation:

Expression : $516 \div 6 - 11 + 50 \times 4 = ?$

$$\begin{aligned} &\equiv 516 \div 6 - 11 + 50 \times 4 \\ &= \left(\frac{516}{6}\right) + (-11) + (50 \times 4) \\ &= 86 - 11 + 200 = 275 \end{aligned}$$

=> 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?
P_QR_QQ_PQ_R

- A TERT
- B STTT
- C QPRQ
- D PQRS

Answer: C

Explanation:

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

= PQQR PQQR PQQR

=> Ans - (C)

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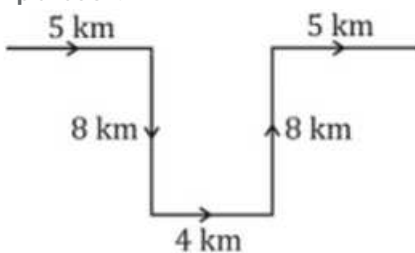
Question 20

Riya travels 5 km in the east direction, takes a right turn and travels another 8 km. Next, she turns left to travel 4 km and then takes another left turn to travel 8 km more. Finally, she turns towards the east and travels 5 km. How far(shortest distance) is she now from her original position?

- A 20 km
- B 14 km
- C 15 km
- D 16 km

Answer: B

Explanation:



Riya travels 5 km in the east direction, takes a right turn and travels another 8 km towards south. Then, she turns left to travel 4 km eastwards and then takes another left turn to travel 8 km more towards north. Finally, she turns towards the east and travels 5 km.

Thus, distance between her initial and final position = $5 + 4 + 5 = 14$ km

=> 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, 'E' can be represented by 68, 99 etc., and 'C' can be represented by 20, 31 etc. Similarly, you have to identify the set for the word 'CRAB'.

Matrix - I

	0	1	2	3	4
0	G	B	G	D	O
1	A	G	L	B	A
2	G	B	A	G	F
3	R	G	V	S	E
4	O	B	A	B	L

Matrix - II

	5	6	7	8	9
5	C	G	L	R	S
6	O	N	C	E	O
7	G	R	S	J	C
8	R	L	C	O	Y
9	A	A	E	C	E

A 55, 58, 10, 13

B 67, 30, 14, 22

C 87, 85, 23, 41

D 98, 77, 42, 43

Answer: A

Explanation:

(A) : 55, 58, 10, 13 = **CRAB**

(B) : 67, 30, 14, 22 = C R A A

(C) : 87, 85, 23, 41 = C R G B

(D) : 98, 77, 42, 43 = C S A B

=> Ans - (A)

Question 22

Introducing a girl, a man says, "She is the daughter of my father's daughter". How is the girl related to the man?

A Niece

B Daughter

C Sister

D Cousin

Answer: A

Explanation:

The man's father's daughter = man's sister

Now, daughter of her sister = man's niece

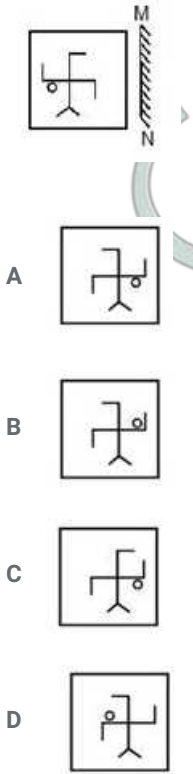
Thus, the girl is that man's niece.

=> Ans - (A)

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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?



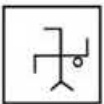
Answer: A

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.

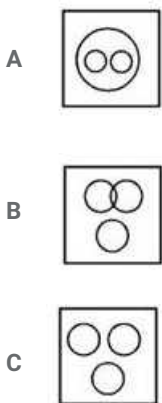
∴ The mirror image of the given figure is



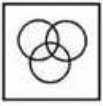
Hence, the correct answer is Option A

Question 24

Identify the diagram that best represents the relationship among the given classes. Food, Vegetables, Apples



D

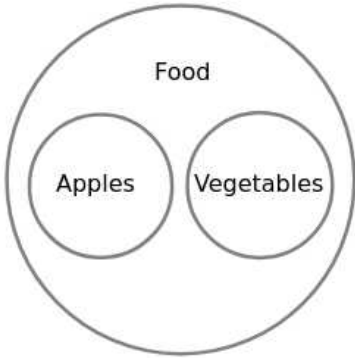


Answer: A

Explanation:

Apples and Vegetables come under Food whereas Apples are fruits not Vegetables

∴ The diagram that best represents the relationship between them is



Hence, the correct answer is Option A

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.



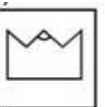
A



B



C



D



Answer: B

Explanation:

When the paper is unfolded first to the right, semicircle will appear at the centre.

When the paper is unfolded again to the right, similar pattern will appear on the right side part of the paper.

∴ When the paper is 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

Mausoleum (Dargah) of Salim Chishti is situated in?

- A Humayun's Tomb
- B Fatehpur Sikri
- C Gwalior Fort
- D Agra Fort

Answer: B

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Question 27

Who has won the maximum number of Filmfare awards till now?

- A Shahrukh Khan
- B Amitabh Bachchan
- C Aamir Khan
- D Akshay Kumar

Answer: A

Question 28

Which of the following glands is a source of the enzyme Ptyalin?

- A Pancreas
- B Thyroid Gland
- C Pituitary Gland
- D Salivary Glands

Answer: D

Question 29

Which of the following is not true about Pteridophyta?

- A Dominant phase is saprophytes
- B Main plant body is diploid
- C Seeds are present
- D Flowers are absent

Answer: C

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Question 30

The largest dolphin species is the orca, also called as

- A Bottle Nose
- B Baiji
- C Killer whale
- D Tucuxi

Answer: C

Question 31

Atomic Number of Hydrogen is

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

Answer: D

Question 32

What is the net charge on Calcium fluoride?

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

Answer: B

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Question 33

.....is an object model language standard.

- A Data definition language
- B Data manipulation language
- C Query language
- D OQL

Answer: D

Question 34

Tertali is a folk dance of

- A Chhattisgarh
- B Madhya Pradesh
- C Manipur
- D Karnataka

Answer: B

Question 35

If quantity of good X demanded increases from 4000 units to 5000 units when price of good Y increases from Rs 75 to Rs 90, find Arc Cross elasticity of demand?

- A 0.55
- B 1.66
- C 0.25
- D 1.22

Answer: D

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Question 36

During a recession

- A Producers will be cautiously optimistic.
- B there will be decrease in inventory
- C There will be capacity under utilization.
- D there will be expansion in bank credit

Answer: C

Question 37

Dudhwa Tiger Reserve is in which state?

- A Karnataka
- B Uttar Pradesh
- C Chhattisgarh
- D West Bengal

Answer: B

Question 38

Which of the following is a greenhouse gas or a gas which can deplete the ozone layer?

- A B₂H₆
- B NF₃
- C CCl₃F
- D C₆H₆

Answer: C

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Question 39

Renowned Businessmen, Mr. Deepak Parekh is primarily associated in thesector.

- A Telecom
- B Aviation
- C Banking
- D Insurance

Answer: C

Question 40

Uranus is theplanet from the Sun.

- A First
- B Third
- C Fifth
- D Seventh

Answer: D

Question 41

For what is Mohs scale used?

- A To measure brightness of a substance
- B To measure viscosity of a liquid
- C To measure elasticity of a material
- D To measure hardness of minerals

Answer: D

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Question 42

Qutub Minar is located in

- A Delhi
- B Ghaziabad
- C Noida
- D Gurugram

Answer: A

Question 43

Bajirao I (1720-1740 AD) was the ruler of which dynasty?

- A Nanda
- B Peshwas
- C Haryanka
- D Maurya

Answer: B

Question 44

Who Invented PlayStation?

- A Wright brothers
- B Reynold B. Johnson
- C Assen Jordanoff
- D Ken Kutaragi

Answer: D

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Question 45

Instrument for measuring light intensity is called

- A Lucimeter
- B Cryometer
- C Cyanometer
- D Barometer

Answer: A

Question 46

With reference to gravity, what is G called?

- A Gravitational constant
- B Gravitational attraction
- C Gravitational force
- D Acceleration due to gravity

Answer: A

Question 47

Indian Constitution is made up of how many words?

- A 40000
- B 60000
- C 80000
- D 120000

Answer: C

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Question 48

Article 43A of the Indian Constitution "Participation of workers in management of industries" deals with?

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

Answer: C

Question 49

Which team won the 2016 UEFA football championship?

- A Portugal
- B USA
- C Germany
- D Brazil

Answer: A

Question 50

Who is the author of "The Oath of the Vayuputras (Shiva Trilogy)"?

- A Amish Tripathi
- B Chitra Banerjee Divakaruni

- C Ruskin Bond
- D Ashwin Sanghi

Answer: A

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English

Instructions

For the following questions answer them individually

Question 51

Improve the bracketed part of the sentence.

When the prodigal son returned home, his father welcomed him (with open hands).

- A with open hearts
- B with open mind
- C with open arms
- D no improvement

Answer: C

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Question 52

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.

"I don't know the way. Do you?" Vipul asked.

- A Vipul said he didn't know the way and asked her if she did.
- B Vipul said he didn't knew the way and asked her if she did.
- C Vipul said he didn't knew the way and asked her whether she did.
- D Vipul said that he didn't know the way and asked her if she did.

Answer: D

Question 53

Rearrange the parts of the sentence in correct order.

It is hard to

Pof some

Qmiss the political significance

Rof these beneficiaries

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

Answer: C

Question 54

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase. to have a strong emotional effect on.

- A to smother
- B to yield
- C to overwhelm
- D to forfeit

Answer: C

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Question 55

Select the synonym of objectionable

- A aperitif
- B abhorrent
- C savory
- D saporus

Answer: B

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'.

Grandfather along (A)/with the children(B)/have gone to Chennai.(C)/No error(D)

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

Answer: C

Question 57

Improve the bracketed part of the sentence.

You can play video games and paint or (draw) from anywhere.

- A be drawing
- B can draw
- C could draw
- D no improvement

Answer: D

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Question 58

In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.
A fool and his money are easily parted

- A a foolish person spends money carelessly and will soon be penniless
- B a miser will eventually lose all his money due to one foolish mistake
- C a foolish person will never be able to get rich
- D a rich person should be smart enough to avoid people who will fool him for his wealth

Answer: A

Question 59

Select the word with the correct spelling.

- A holgram
- B comerce
- C bluffers
- D cluters

Answer: C

Question 60

In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.
All bark and no bite

- A Children should only be scolded but never beaten
- B To be full of big talk but lacking action
- C The person who appears most scary will help you the most
- D A person who talks a lot will never harm you

Answer: B

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Question 61

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'.

Being a well know scientist,(A)/he was invited to deliver(B)/a lecture on artificial intelligence.(C)/No error(D)

A A

B B

C C

D D

Answer: D

Question 62

Select the word with the correct spelling.

A hyginic

B emmigrant

C anteirior

D quarrels

Answer: D

Question 63

Select the synonym of to recline

A to lounge

B to rewind

C to sheer

D to plump

Answer: A

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Question 64

Select the antonym of to placate

A to provoke

B to propitiate

C to tranquilize

D to mollify

Answer: A

Question 65

Rearrange the parts of the sentence in correct order.

But while the defeat made
Pas it was no longer in currency.
Qnews, the issue on which
Rit was based failed to resonate

A RPQ

B RQP

C PQR

D QRP

Answer: D

Question 66

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.

Saima mailed her application for a new job.

A The application for a new job had been mailed by Saima.

B The application for a new job has been mailed by Saima.

C The application for her new job has been mailed by Saima.

D The application for a new job was mailed by Saima.

Answer: D

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Question 67

Select the antonym of Content

A ease

B depressed

C gratified

D smug

Answer: B

Question 68

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase. tending to hang loosely.

A to attenuate

B to enfeeble

C prostrate

D to flop

Answer: D

Question 69

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.

Possessing even a single nuclear weapon acts as a

A deterrent

B detriment

C boundary

D excuse

Answer: A

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Question 70

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.

As global temperatures rise, an untreatable new strain of the flu mightup at any moment.

A fill

B crop

C bring

D chop

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.

Once, (1) it is that time of the year when the examination results season may be just ending and the admissions season is in progress, and marked by a(2) of two contradictory voices – often from the same people – that rose to deafening.....(3) from April to May when the results of various school boards (4) The first voice(5) those who succeeded and did wondrously well.

Question 71

Once,

A upon a time

B only

C again

D more

Answer: C

Question 72

marked by aof two contradictory voices

A cacophony

B high decibel

C whisper

D silence

Answer: A

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Question 73

rose to deafeningfrom April to May

- A level
- B levels
- C height
- D crescendos

Answer: B

Question 74

the results of various school boards

- A are declaring
- B declare
- C were being declared
- D were declared

Answer: D

Question 75

The first voicethose who succeeded and did wondrously well.

- A congratulates
- B applaud
- C celebrated
- D recommended

Answer: C

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Mathematics

Instructions

For the following questions answer them individually

Question 76

If $(6 - 18x) - (x - 7) = 8$, then the value of x is

- A $-5/19$
- B $-2/13$
- C $2/13$

D 5/19

Answer: D

Explanation:

$$\text{Expression : } (6 - 18x) - (x - 7) = 8$$

$$\Rightarrow (-18x - x) + (6 + 7) = 8$$

$$\Rightarrow -19x + 13 = 8$$

$$\Rightarrow -19x = 8 - 13 = -5$$

$$\Rightarrow x = \frac{5}{19}$$

\(\Rightarrow\) Ans - (D)

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Question 77

If the shopkeeper sells an item at Rs 450 which is marked as Rs 600, then what is the discount he is offering?

A 33.33 percent

B 25 percent

C 20 percent

D 30 percent

Answer: B

Explanation:

Marked Price = Rs. 600

Selling price = Rs. 450

$$\Rightarrow \text{Discount \%} = \frac{(600 - 450)}{600} \times 100 = \frac{150}{6} = 25\%$$

\(\Rightarrow\) Ans - (B)

Question 78

Find the roots of the quadratic equation : $27x^2 + 57x - 14 = 0$

A $2/9, 7/3$

B $2/9, -7/3$

C $9/2, 3/7$

D $9/2, 3/7$

Answer: B

Explanation:

$$\text{Expression : } 27x^2 + 57x - 14 = 0$$

$$\Rightarrow 27x^2 - 6x + 63x - 14 = 0$$

$$\Rightarrow 3x(9x - 2) + 7(9x - 2) = 0$$

$$\Rightarrow (3x + 7)(9x - 2) = 0$$

$$\Rightarrow x = \frac{2}{9}, \frac{-7}{3}$$

Question 79

A bank offers 20% compound interest calculated on half year basis. A customer deposits Rs 9200 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 11776
- B Rs 2944
- C Rs 1472
- D Rs 2852

Answer: D

Explanation:

Principal = Rs. 9,200 and Rate = 20%

$$\begin{aligned} \text{Amount on half yearly basis} &= P\left(1 + \frac{R}{2 \times 100}\right)^{2 \times T} \\ &= [9200\left(1 + \frac{20}{2 \times 100}\right)^{2 \times 1}] + [9200\left(1 + \frac{20}{2 \times 100}\right)^{2 \times 2}] \\ &= [9200 \times \left(\frac{11}{10}\right)^2] + [9200 \times \frac{11}{10}] \\ &= [92 \times 121] + [920 \times 11] \\ &= (92 \times 11) \times (11 + 10) \\ &= 92 \times 11 \times 21 = \text{Rs.} 21,252 \end{aligned}$$

∴ Compound Interest = Rs.(21,252 - 18,400) = Rs. 2,852

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Question 80

Which of the following numbers is not a prime number?

- A 197
- B 313
- C 439
- D 391

Answer: D

Explanation:

Among the given numbers, there are no factors of 197, 313, 439 other than 1 and the numbers themselves.

$$391 = 23 \times 17$$

⇒ 391 is not a prime number.

⇒ Ans - (D)

Question 81

A carpenter can build a cupboard in 64 hours. After 16 hours he takes a break. What fraction of the cupboard is yet to be built?

- A 0.6
- B 0.75
- C 0.2

D 0.8

Answer: B

Explanation:

Time taken to build the cupboard = 64 hours

Time spent = 16 hours

=> Fraction of the cupboard yet to be built = $\frac{(64-16)}{64} = \frac{48}{64}$

$= \frac{3}{4} = 0.75$

=> Ans - (B)

Question 82

The bus fare between two cities is increased in the ratio 29:31. What is the increase in the fare, if the original fare is Rs 725

A Rs 50

B Rs 775

C Rs 155

D Rs 310

Answer: A

Explanation:

Let original fare = Rs. $29x$

=> New fare = Rs. $31x$

Also, original fare = $725 = 29x$

=> $x = \frac{725}{29} = 25$

∴ Increase in fare = $31x - 29x = 2x$

$= 2 \times 25 = Rs.50$

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Question 83

Two numbers are 35% and 40% 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 7.69 percent

B 5 percent

C 8.33 percent

D 12.5 percent

Answer: C

Explanation:

Let third number = $100x$

First number is 35% less than $100x$ and second number is 40% less than $100x$

=> First number = $65x$ and Second number = $60x$

To make second number equal to first number, it should be enhanced by = $65x - 60x = 5x$

$$\Rightarrow \text{Required \%} = \frac{5x}{60x} \times 100 = \frac{100}{12} = 8.33\%$$

Question 84

If $3x + 2 < 2x + 1$ and $x - 4 \leq 2x - 1$; then x can take which of the following values?

- A -2
- B 0
- C 2
- D 4

Answer: A

Explanation:

Expression 1 : $3x + 2 < 2x + 1$

$$\Rightarrow 3x - 2x < 1 - 2$$

$$\Rightarrow x < -1 \text{ -----(i)}$$

Expression 2 : $x - 4 \leq 2x - 1$

$$\Rightarrow 2x - x \geq -4 + 1$$

$$\Rightarrow x \geq -3 \text{ -----(ii)}$$

Thus, combining inequalities (i) and (ii), we get : $-3 \leq x < -1$

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

\Rightarrow Ans - (A)

Question 85

Between 50 and 150 how many numbers are divisible by 7?

- A 15
- B 16
- C 17
- D 14

Answer: D

Explanation:

Numbers which are divisible by 7 between 50 and 150 are : 56,63,70,.....,147

These numbers form an arithmetic progression with first term, $a = 56$ and last term, $l = 147$

Common difference, $d = 7$

$$\text{Using, } l = a + [(n - 1) \times d]$$

$$\Rightarrow 147 = 56 + (n - 1) \times 7$$

$$\Rightarrow (n - 1) = \frac{(147 - 56)}{7} = 21 - 8 = 13$$

$$\Rightarrow n = 13 + 1 = 14$$

\Rightarrow Ans - (D)

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Question 86

The distance between the points (11,5) and (k,0) is 13. Find k.

- A k = 1 or 23
- B k = -1 or 23
- C k = 1 or -23
- D k = -1 or -23

Answer: B

Explanation:

Distance between two points (x_1, y_1) and $(x_2, y_2) = \sqrt{(y_2 - y_1)^2 + (x_2 - x_1)^2}$

Now, distance between points (11,5) and (k,0) = 13

$$\Rightarrow \sqrt{(0 - 5)^2 + (k - 11)^2} = 13$$

$$\Rightarrow 25 + (k^2 - 22k + 121) = (13)^2 = 169$$

$$\Rightarrow k^2 - 22k = 169 - 25 - 121$$

$$\Rightarrow k^2 - 22k - 23 = 0$$

$$\Rightarrow k^2 + k - 23k - 23 = 0$$

$$\Rightarrow k(k + 1) - 23(k + 1) = 0$$

$$\Rightarrow (k + 1)(k - 23) = 0$$

$$\Rightarrow k = -1, 23$$

Question 87

What is the equation of the line which passes through the points (3,2) and (5,-3)?

- A $5x - 2y = 19$
- B $5x + 2y = 19$
- C $5x + 2y = 31$
- D $5x - 2y = 31$

Answer: B

Explanation:

Equation of line passing through points (x_1, y_1) and $(x_2, y_2) = (y - y_1) = \frac{(y_2 - y_1)}{(x_2 - x_1)}(x - x_1)$

Points given = (3,2) and (5,-3)

$$\Rightarrow \text{Equation of line} = (y - 2) = \frac{(-3 - 2)}{(5 - 3)}(x - 3)$$

$$\Rightarrow (y - 2) = \frac{-5}{2}(x - 3)$$

$$\Rightarrow 2y - 4 = -5x + 15$$

$$\Rightarrow 5x + 2y = 19$$

Question 88

A thief is stopped by a policeman from a distance of 200 metres. When the policeman starts the chase, the thief also starts running. Assuming the speed of the thief as 8 km/hr and that of police man as 10 km/hr. How far the thief would have run, before he is overtaken?

- A 640 metres
- B 800 metres
- C 960 metres
- D 480 metres

Answer: B

Explanation:

Since the thief is escaping from the police man, thus they both are running in same direction.

Speed of thief = 8 km/hr and speed of policeman = 10 km/hr

=> Relative speed = 10 - 8 = 2 km/hr

Distance between them = 200 metres = 0.2 km

=> Time taken = $\frac{\text{distance}}{\text{speed}}$

$$= \frac{0.2}{2} = \frac{1}{10} \text{ hr}$$

∴ Distance covered by thief before he was caught = $8 \times \frac{1}{10}$

= 0.8 km = 800 metres

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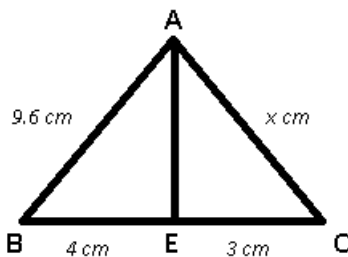
Question 89

In $\triangle ABC$, the angle bisector of $\angle A$ cuts BC at E . Find the length of AC if lengths of AB , BE and EC are 9.6 cm, 4 cm and 3 cm?

- A 4.8 cm
- B 9.8 cm
- C 7.8 cm
- D 7.2 cm

Answer: D

Explanation:



AE is the angle bisector and let $AC = x$ cm

Using angle bisector theorem,

$$\Rightarrow \frac{AB}{BE} = \frac{AC}{CE}$$

$$\Rightarrow \frac{9.6}{4} = \frac{x}{3}$$

$$\Rightarrow x = 2.4 \times 3 = 7.2 \text{ cm}$$

Question 90

In a triangle, the length of the side opposite the angle which measures 45° is 16 cm, what is the length of the side opposite to the angle which measures 90° ?

- A $8\sqrt{3}$ cm
- B $16\sqrt{2}$ cm
- C 8 cm
- D $16\sqrt{3}$ cm

Answer: B

Explanation:

In the given triangle, two angles are 90° and 45° , \Rightarrow Third angle = 45°

\Rightarrow The given triangle is isosceles right angled triangle with measure of equal sides = 16 cm

Let length of hypotenuse = h cm

$$\Rightarrow h^2 = (16)^2 + (16)^2$$

$$\Rightarrow h = \sqrt{2 \times (16)^2}$$

$$\Rightarrow h = 16\sqrt{2} \text{ cm}$$

Question 91

If the volume of a cylinder is 385 cubic cm and height is 10 cm, find its radius?

- A 7 cm
- B 10.5 cm
- C 3.5 cm
- D 1.75 cm

Answer: C

Explanation:

Let radius of cylinder = r cm and height = 10 cm

Volume of cylinder = 385 cm^3

$$\Rightarrow \pi r^2 h = 385$$

$$\Rightarrow \frac{22}{7} \times (r^2) \times 10 = 385$$

$$\Rightarrow r^2 = \frac{385 \times 7}{22 \times 10} = \frac{7 \times 7}{2 \times 2}$$

$$\Rightarrow r = \sqrt{\frac{49}{4}} = \frac{7}{2}$$

$$\Rightarrow r = 3.5 \text{ cm}$$

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Question 92

What is the value of $\sec 5\pi/4$?

- A $\sqrt{3}$

B $-\sqrt{2}$

C $-\sqrt{3}$

D -1

Answer: B

Explanation:

$$\begin{aligned} \text{Expression: } & \sec\left(\frac{5\pi}{4}\right) \\ &= \sec\left(\pi + \frac{\pi}{4}\right) = -\sec\left(\frac{\pi}{4}\right) \\ &= -\sqrt{2} \end{aligned}$$

Question 93

$2\sin\left[\frac{C+D}{2}\right] \cdot \sin\left[\frac{D-C}{2}\right]$ is equal to

A $\cos C + \cos D$

B $\cos C - \cos D$

C $\sin C - \sin D$

D $\sin C + \sin D$

Answer: B

Explanation:

We know that $2 \sin A \sin B = \cos(A - B) - \cos(A + B)$

$$\begin{aligned} \Rightarrow 2 \sin\left(\frac{C+D}{2}\right) \sin\left(\frac{D-C}{2}\right) &= \cos\left(\frac{C+D}{2} - \frac{D-C}{2}\right) - \cos\left(\frac{C+D}{2} + \frac{D-C}{2}\right) \\ &= \cos\left(\frac{C+D-D+C}{2}\right) - \cos\left(\frac{C+D+D-C}{2}\right) \\ &= \cos C - \cos D \end{aligned}$$

Question 94

The total cost of a stove with cooker was Rs 13,125. The cooker was sold at a profit of 30% and the stove at a loss of 20%. If the sale price was the same in both the items, then the cost price of the cheaper item was

A Rs 8125

B Rs 5000

C Rs 6562.5

D Rs 6175

Answer: B

Explanation:

Let cost price of stove = Rs. $100x$

$$\Rightarrow \text{Cost price of cooker} = \text{Rs. } (13,125 - 100x)$$

Selling price of cooker (30% profit) = Selling price of stove (20% loss)

$$\Rightarrow 100 \times \frac{130}{100} \times (13,125 - 100x) = \frac{80}{100} \times 100x$$

$$\Rightarrow 17062.5 - 130x = 80x$$

$$\Rightarrow x = \frac{17062.5}{210} = 81.25$$

=> Cost price of stove = $100 \times 81.25 = \text{Rs.} 8,125$

=> Cost price of cooker = $13,125 - 8,125 = \text{Rs.} 5,000$

∴ Cooker is cheaper with cost price = Rs. 5,000

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Question 95

$\cot^2 A + \cos^2 A$ is equal to

A $(\operatorname{cosec} A - \sin A)^2 (\operatorname{cosec} A + \sin A)$

B $(\operatorname{cosec} A + \sin A)(\operatorname{cosec} A - \sin A)$

C $(\sec A + \sin A)(\sec A - \sin A)$

D $(\sec A - \sin A)^2 (\sec A + \sin A)$

Answer: B

Explanation:

$$\cot^2 A + \cos^2 A = \operatorname{cosec}^2 A - 1 + 1 - \sin^2 A$$

$$\Rightarrow \cot^2 A + \cos^2 A = \operatorname{cosec}^2 A - \sin^2 A$$

$$\Rightarrow \cot^2 A + \cos^2 A = (\operatorname{cosec} A + \sin A)(\operatorname{cosec} A - \sin A)$$

Question 96

The average revenues of 7 consecutive years of a company is Rs 71 lakhs. If the average of first 4 years is Rs 66 lakhs and that of last 4 years is Rs 78 lakhs. What is the revenue for the fourth year.

A Rs 81 lakhs

B Rs 77 lakhs

C Rs 79 lakhs

D Rs 75 lakhs

Answer: C

Explanation:

Total revenues of 7 years of the company = $71 \times 7 = \text{Rs.} 497$ lakhs

Total revenue of first 4 years = $66 \times 4 = \text{Rs.} 264$ lakhs

Total revenue of last 4 years = $78 \times 4 = \text{Rs.} 312$ lakhs

∴ Revenue of 4th year = $(264 + 312) - 497 = 576 - 497$

= Rs. 79 lakhs

=> Ans - (C)

Question 97

Refer the below data table and answer the following Question.

	Number of employees	Annual salary (in lakhs)	Bonus as percent of annual salary
Manager	3	54	60%
Executive	5	8	30%
Trainee	5	4	10%

What is the average bonus (in rupees)?

- A Rs 855385
- B Rs 1120005
- C Rs 220000
- D Rs 352000

Answer: A

Explanation:

$$\text{Total bonus of managers (in lakh)} = 3 \times 54 \times \frac{60}{100} = 97.2 \text{ lakhs}$$

$$\text{Total bonus of executive (in lakh)} = 5 \times 8 \times \frac{30}{100} = 12 \text{ lakhs}$$

$$\text{Total bonus of trainee (in lakh)} = 5 \times 4 \times \frac{10}{100} = 2 \text{ lakhs}$$

$$\Rightarrow \text{Average bonus in rupees} = \frac{(97.2+12+2)}{(3+5+5)}$$

$$= \frac{111.2}{13} = 8.55385 \text{ lakhs} = 8,55,385$$

\Rightarrow Ans - (A)

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Question 98

Refer the below data table and answer the following Question.

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

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

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

Answer: A

Explanation:

Total exports from the three companies together in :

$$2011 = 5000 + 5000 + 4000 = 14000$$

$$2012 = 1000 + 3000 + 5000 = 9000$$

$$2013 = 2000 + 4000 + 3000 = 9000$$

$$2014 = 4000 + 5000 + 3000 = 12000$$

$$2015 = 1000 + 2000 + 5000 = 8000$$

Clearly, total exports in 2012 and 2013 are equal to 9000

=> Ans - (A)

Question 99

Refer the below data table and answer the following Question.

Year	Profit or (-Loss) in Rs crore
2011	25
2012	-5
2013	5
2014	-5
2015	25

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

- A Loss of Rs 45 crores
- B Profit of Rs 55 crores
- C Profit of Rs 45 crores
- D Loss of Rs 55 crores

Answer: C

Explanation:

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

$$= 25 - 5 + 5 - 5 + 25$$

$$= 50 - 5 = 45$$

Since, it is positive, thus profit of Rs. 45 crore

=> Ans - (C)

Question 100

Refer the below data table and answer the following Question.

India's Exports in 2015	Value in Million US\$
Jewellery	800
Software	775
Cotton	775
Steel	775
Electronics	625

Electronics was what percent of total exports?

- A 19.17 percent
- B 21.67 percent
- C 14.17 percent
- D 16.67 percent

Answer: D

Explanation:

Value in millions of Electronics = 625

Total exports = 800 + 775 + 775 + 775 + 625 = 3750

=> % of Electronics in total exports = $\frac{625}{3750} \times 100$

= $\frac{100}{6} = 16.67\%$

=> Ans - (D)

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