



SSC CHSI 19 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. Clever : Smart :: Apprehensive : ?

- A Calm
- B Certain
- C Worried
- D Confident

Answer: C

Explanation:

Clever and smart are synonyms meaning intelligent, similarly synonym of apprehensive is *worried*.

=> Ans - (C)

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Question 2

Select the related word/letters/number from the given alternatives. EF : UV :: IJ : ?

- A RQ
- B QR
- C PQ
- D NO

Answer: B

Explanation:

Expression = EF : UV :: IJ : ?

Alphabets at the corresponding position from the reverse end are written. Also, the codes are written in inverse order.

Eg :- E -> V and F -> U

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, IJ : QR

=> Ans - (B)

Question 3

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

QC : T :: SF : ?

- A C
- B Y
- C Z

D X

Answer: B

Explanation:

Expression = QC : T :: SF : ?

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

Eg :- Q = 17, C = 3, => $17 + 3 = 20 \equiv T$

Similarly, S = 19, F = 6, => $19 + 6 = 25 \equiv Y$

=> Ans - (B)

Question 4

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

731 : 11 :: 991 : ?

A 19

B 13

C 17

D 23

Answer: A

Explanation:

Expression = 731 : 11 :: 991 : ?

The second number is equal to the sum of digits of first number.

Eg :- $7 + 3 + 1 = 11$

Similarly, $9 + 9 + 1 = 19$

=> Ans - (A)

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Question 5

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

A Veena

B Guitar

C Violin

D Flute

Answer: D

Explanation:

Unlike other three the flute is musical instrument in the woodwind group, hence it is the odd one out.

=> Ans - (D)

Question 6

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

A KP

- B DW
 - C GT
 - D CW
- Answer: D**



Explanation:

Except CW other three are pair of corresponding opposite word, hence it is the odd one out.

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

=> Ans - (D)

Question 7

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

- A 306
- B 270
- C 132
- D 240

Answer: B

Explanation:

The pattern followed is :

$$306 = 17^2 + 17$$

$$132 = 11^2 + 11$$

$$240 = 15^2 + 15$$

=> Ans - (B)

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Question 8

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

- A 8324
- B 9344
- C 7213
- D 8729

Answer: B

Explanation:

The 2 middle digits is equal to the product of first and last digits, but $9 \times 4 \neq 34$, hence 9344 is the odd one out.

=> Ans - (B)

Question 9

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.
 ? , Planning, Strategy, Marketing, Finance

- A Realization
- B Success
- C Failure
- D Idea

Answer: D

Explanation:

Steps of business project startup process are given.

= Idea -> Planning -> Strategy -> Marketing -> Finance

=> Ans - (D)

Question 10

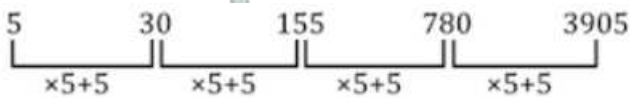
A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.
5, 30, 155, 780, ?

- A 4000
- B 3905
- C 3900
- D 3805

Answer: B

Explanation:

The pattern followed is that each number is multiplied by 5 and then 5 is added.



Thus, missing term = 3905

=> Ans - (B)

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Question 11

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

Statements:

- (I) Some bags are hot.
- (II) All hot things are cakes.

Conclusion:

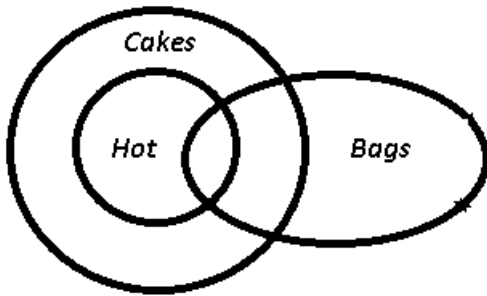
- (I) All cakes are bags.
- (II) All bags are cakes.

- 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) All cakes are bags = false
- (II) All bags are cakes = false

Thus, neither I nor II follows

=> Ans - (C)

Question 12

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. PRQ, TVU, YAZ, ?

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

Answer: B

Explanation:

Expression : PRQ, TVU, YAZ, ?

The pattern followed in each letter of the terms is :

1st letter : P (+4 letters) = T (+5 letters) = Y (+6 letters) = E

2nd letter : R (+4 letters) = V (+5 letters) = A (+6 letters) = G

3rd letter : Q (+4 letters) = U (+5 letters) = Z (+6 letters) = F

Thus, missing term = **EGF**

=> Ans - (B)

Question 13

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. ML, HG, CB, ?

- A XW
- B YX
- C WX
- D ZY

Answer: A

Explanation:

Expression : ML, HG, CB, ?

The pattern followed in each letter of the terms is :

1st letter : M (-5 letters) = H (-5 letters) = C (-5 letters) = X

2nd letter : L (-5 letters) = G (-5 letters) = B (-5 letters) = W

Thus, missing term = **XW**

=> Ans - (A)

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Question 14

Ravi had five subjects in his final examination. The maximum marks in each subject are 100. If his percentage in four subjects is 80, and he scores 65 marks in the fifth subject, determine his overall percentage for the five subjects.

A 78

B 79

C 77

D 76

Answer: C

Explanation:

Maximum marks in each subject = 100

Percentage marks in 4 subjects = 80%

=> Total marks scored in 4 subjects = $80 \times 4 = 320$

Marks in 5th subject = 65

=> Overall percentage for the five subjects = $\frac{(320+65)}{500} \times 100$

= $\frac{385}{5} = 77\%$

=> Ans - (C)

Question 15

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

i. Worrisome

ii. Wonderful

iii. Worthless

iv. Wrong

A iv, ii, i, iii

B ii, i, iii, iv

C ii, iii, i, iv

D i, iv, iii, ii

Answer: B

Explanation:

As per the order of dictionary :

= Wonderful -> Worrisome -> Worthless -> Wrong

≡ ii, i, iii, iv

=> Ans - (B)

Question 16

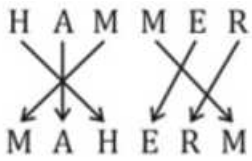
In a certain code language, "HAMMER" is written as "MAHERM". How is "MATTER" written in that code language?

- A TREMAT
- B TAMERT
- C TAEMRT
- D TARMET

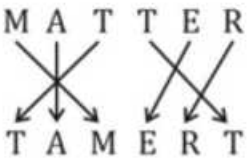
Answer: B

Explanation:

"HAMMER" is written as "MAHERM"



Similarly, for MATTER :



=> Ans - (B)

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Question 17

Find the missing number in the given table ?

81	3	90
60	4	76
49	6	?

- A 78
- B 80
- C 85
- D 75

Answer: C

Explanation:

From the table along the rows,

$$81 + 3^2 = 81 + 9 = 90$$

$$60 + 4^2 = 60 + 16 = 76$$

First number + Second number² = Third number

Similarly, the required number = $49 + 6^2 = 49 + 36 = 85$

Hence, the correct answer is Option C

Question 18

If "*" denotes "added to", "&" denotes "divided by", "@" denotes "multiplied by" and "-" denotes "subtracted from", then $399 \& 19 @ 21 - 41 * 100 = ?$

- A 458
- B 500
- C 575
- D 600

Answer: B

Explanation:

Expression : $399 \& 19 @ 21 - 41 * 100 = ?$

$$\equiv 399 \div 19 \times 21 - 41 + 100$$

$$= (21 \times 21) - 41 + 100$$

$$= 441 - 41 + 100 = 500$$

=> Ans - (B)

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_P_RPQ_S_Q_ST

- A QRQPR
- B QQRPR
- C PQPRR
- D PRQRQ

Answer: B

Explanation:

The pattern followed is that the alphabets starting from 'P' are written in increasing order after each term

= PQ PQR PQRS PQRST

=> Ans - (B)

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Question 20

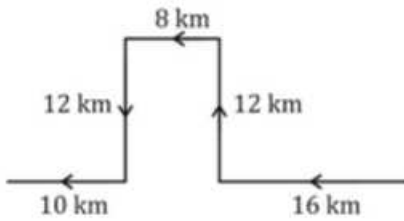
Vineet travels 16 km towards west, turns right and travels another 12 km, and then takes two successive left turns covering 8 km and 12 km in each turn respectively. Finally, he takes a right turn and travels 10km further. How far is he now from his original position ?

- A 46 km
- B 34 km
- C 40 km

D 38 km

Answer: B

Explanation:



Vineet travels 16 km towards west, turns right and travels another 12 km towards north. After that he takes left turn to travel west for 8 km, he again takes left turn and travel 12 km and finally, he takes a right turn and travels 10km further towards west.

Thus, distance between his original and final position = $16 + 8 + 10 = 34$ 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, T can be represented by 20, 65, etc., and R can be represented by 43, 57, etc. Similarly, you have to identify the set for the word MIND.

Matrix 1

	0	1	2	3	4
0	T	R	V	M	N
1	V	U	N	H	M
2	T	N	S	G	L
3	M	V	P	L	M
4	V	T	L	R	N

Matrix 2

	5	6	7	8	9
5	E	D	R	I	H
6	T	R	I	O	D
7	O	S	Y	D	R
8	S	I	O	M	D
9	G	A	I	R	O

A 03, 58, 33, 56

B 14, 75, 12, 89

C 30, 86, 21, 78

D 34, 97, 44, 98

Answer: C

Explanation:

(A) : 03, 58, 33, 56 = MILD

(B) : 14, 75, 12, 89 = MOND

(C) : 30, 86, 21, 78 = **MIND**

(D) : 34, 97, 44, 98 = MINR

=> Ans - (C)

Question 22

Pointing to a photograph of a lady, Vishal says, "She is the sister-in-law of my grandfather's daughter". How is the lady in the photograph related to Vishal?

- A Mother
- B Aunt
- C Sister
- D Cannot be determined

Answer: D

Explanation:

Vishal's grandfather's daughter = Vishal's aunt or mother

Now, that lady is the sister-in-law of Vishal's aunt or mother, => that lady is Vishal's mother or aunt.

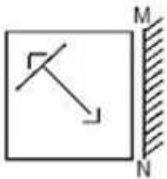
Thus, relation between that lady and Vishal cannot be determined.

=> Ans - (D)

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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
- B
- C
- D

Answer: A

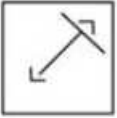
Explanation:

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 arrow facing the bottom right faces the bottom left in the mirror image

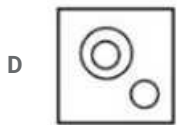
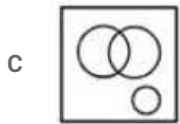
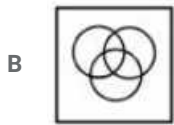
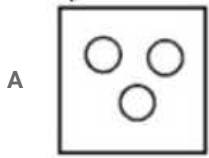
∴ The mirror of the given figure is



Hence, the correct answer is Option A

Question 24

Identify the diagram that best represents the relationship among the given classes: Girl, Singer, Politician



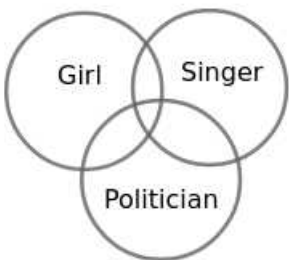
Answer: B

Explanation:

Girl can be Singer and Politician

Singer can be Politician and Girl

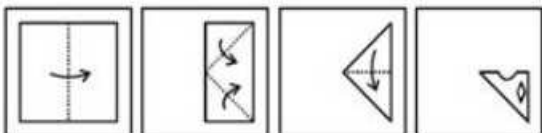
∴ The diagram that best represents the relationship between them is

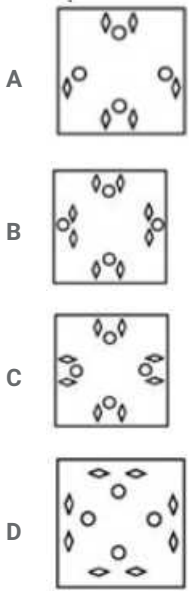


Hence, the correct answer is Option B

Question 25

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





Answer: D

Explanation:

When the paper is unfolded first to the top, a circle will at center and a rhombus will appear at the top.

When the paper is unfolded again, opened curves towards left will appear at the top and bottom part. Two rhombus will appear similarly one each on the top and bottom part.

When the paper is unfolded again to the left, similar pattern will appear on the part like in the right part.

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



Hence, the correct answer is Option D

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General Awareness

Instructions

For the following questions answer them individually

Question 26

Garden inside the Taj Mahal is known as

- A Mughal Garden
- B Taj Bageecha
- C Taj Mahal Garden
- D Mahal Bageecha

Answer: A

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Question 27

How many Filmfare awards has Shahrukh Khan won?

- A 5
- B 10
- C 15
- D 20

Answer: C

Question 28

Which drug is used to cure Glaucoma?

- A Fexofenadine
- B Ketoconazole
- C Latanoprost
- D Ibuprofen

Answer: C

Question 29

.....are a group of chemicals that influence cell division and shoot formation.

- A Cytokinins
- B Gibberellins
- C Domins
- D Auxins

Answer: A

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Question 30

Lungs are the primary organs of

- A Digestion
- B Constipation
- C Perspiration
- D Respiration

Answer: D

Question 31

Who discovered Oxygen?

- A Carl Scheele
- B Hooke
- C Heisenberg
- D Williams

Answer: A

Question 32

Electrons in the highest energy level of an atom are called

- A valence protons
- B orbital protons
- C valence electrons
- D orbital electrons

Answer: C

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Question 33

How many KB is equal to 1 GB?

- A 1024
- B 256×1024
- C 1024×1024
- D $1024 \times 1024 \times 128$

Answer: C

Question 34

The Queen who had the nick name "Bloody Mary"

- A Elizabeth
- B Victoria
- C Mary I
- D Ruth

Answer: C

Question 35

Find arc elasticity of demand, if quantity demanded falls from 4600 to 4200 when price of the item is increased from Rs 960 to Rs 1000?

- A 2.23

- B 2.09
- C 2.23
- D 2.09

Answer: A

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Question 36

Match the characteristics with their market structure:

- (a) Difficult entry (often due to economies of scale)
- (b) Can sell as much as it can at market price

- A (a) Monopolistic Competition, (b) Pure Monopoly
- B (a) Pure Monopoly, (b) Oligopoly
- C (a) Oligopoly, (b) Pure Competition
- D (a) Pure Competition, (b) Oligopoly

Answer: C

Question 37

Which of the following states has the maximum area of Mangrove forest?

- A Rajasthan
- B Uttar Pradesh
- C Sikkim
- D West Bengal

Answer: D

Question 38

Manas Tiger Reserve is in which state?

- A Telangana
- B Madhya Pradesh
- C Assam
- D Kerala

Answer: C

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Question 39

First man to go into space was

- A Roald Amundsen

- B Reynalt Mayor
- C Robert Peary
- D Major Yuri Gagarin

Answer: D

Question 40

India has how many states?

- A 26
- B 27
- C 29
- D 28

Answer: C

Question 41

Which country is the largest producer of Wheat?

- A Brazil
- B United States
- C France
- D China

Answer: D

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Question 42

Noor Jahan was wife of which Mughal Emperor?

- A Akbar
- B Aurangzeb
- C Jahangir
- D Shah Jahan

Answer: C

Question 43

Battle of Tarain was fought in the year

- A 1526
- B 1757
- C 1191

D 1857

Answer: C

Question 44

Who invented the Lightning Rod in 1749?

A Benjamin Franklin

B Nikola Tesla

C Eli Whitney

D George Washington

Answer: A

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Question 45

An object is in static equilibrium when it is

A at rest

B moving in a circular path

C moving with uniform velocity

D accelerating at high speed

Answer: A

Question 46

.....through a plane surface is the product of the magnetic flux density normal to the surface and the area of the surface.

A Magnetic susceptibility

B Magnetic resonance

C Magnetic flux

D Magnetic pulse

Answer: C

Question 47

First country to make constitution is

A India

B England

C USA

D Sri Lanka

Answer: C



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Question 48

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

- A 1
- B 6
- C 11
- D 15

Answer: A

Question 49

Which country won the ICC Under19 Cricket World Cup in 2016?

- A Australia
- B West Indies
- C Srilanka
- D South Africa

Answer: B

Question 50

"Malgudi Days" was written by

- A Vijay Krishna Acharya
- B Rajat Arora
- C Mrinal Jha
- D RK Narayan

Answer: D

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English

Instructions

For the following questions answer them individually

Question 51

Select the word with the correct spelling.

- A mamoths
- B nicotien
- C rickshaw



D platypous

Answer: C

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Question 52

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.

One must keep one's promises.

A One's promises must be kept by one.

B One's promises had to be kept.

C Promises must be kept.

D Promises have to be kept by one.

Answer: C

Question 53

Rearrange the parts of the sentence in correct order

Taken together, this

Pgives a total global

Qstockpile of almost 1,900 tons of

Rnuclear weaponsusable material

A QRP

B PQR

C RPQ

D QPR

Answer: B

Question 54

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

A To feel sad for another person's misfortunes

B To laugh so much that your eyes start to water

C A person whose sadness is never noticed

D Expressions of sorrow that are insincere

Answer: D

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Question 55

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.

The professor told the class, "Ice floats on water".

- A The professor told the class that, that ice floats on water.
- B The professor told the class ice floats on water.
- C The professor told the class that ice floats on water.
- D The professor told the class how ice floats on water.

Answer: C

Question 56

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase. to portray in words; describe

- A to evince
- B to divulge
- C to depict
- D to manifest

Answer: C

Question 57

Improve the bracketed part of the sentence.

In 2001, hundreds of people were killed (from) the earthquake in Gujarat.

- A in
- B because of
- C since
- D no improvement

Answer: A

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Question 58

Select the word with the correct spelling.

- A defered
- B decifer
- C fammished
- D glaucoma

Answer: D

Question 59

In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

The residence of that rich man was plain to the point of being, with no luxuries.

- A ascetic
- B austere
- C stringent
- D solemn

Answer: B

Question 60

Select the antonym of motley

- A kaleidoscopic
- B assorted
- C homogenous
- D disparate

Answer: C

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Question 61

Select the antonym of violation

- A abuse
- B obedience
- C felony
- D crime

Answer: B

Question 62

In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'.

Seldom we have been (A)/treated in such (B)/a rude manner. (C)/No error (D)

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

Answer: A

Question 63

Improve the bracketed part of the sentence
Vikram (insist that) he was innocent.

- A insisted on that
- B insisted that
- C insisted on
- D no improvement

Answer: B

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Question 64

In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

Then, he left for Silicon Valley tohis dream of launching a startup.

- A persevere
- B eschew
- C pursue
- D cherish

Answer: C

Question 65

Select the synonym of
bother

- A obscene
- B beset
- C obfuscate
- D oblivious

Answer: B

Question 66

Select the synonym of
elate

- A abase
- B faze
- C exhilarate

D enervate

Answer: C

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Question 67

In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'.

I will try to be on time(A)/but don't worry when(B)/I am late.(C)/No error(D)

A A

B B

C C

D D

Answer: B

Question 68

Rearrange the parts of the sentence in correct order

The loss of these Pyoung, and often Qmake us ponder Rbright, people must

A PRQ

B PQR

C QPR

D RPQ

Answer: A

Question 69

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

Chink in one's armour

A A spotless shield tells that the person has not yet fought any war

B A small crack if not repaired will break the shield

C An area of vulnerability

D One's primary defence system against loss or injury

Answer: C

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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 impose something unwelcome on

A to subject

- B to extort
- C to levy
- D to inflict

Answer: D

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.

It is obviously wrong as the cost of school uniform, books and stationery, and transport,all are under the monopoly of the school, are not included.private schools want additional money for special occasions like festivals, picnics,and projects. And they often recommend tuition for the children. None of thisin this cost calculation. However, the familythis burden and these items add significantly to the revenue of private schools.

Question 71

(1)

- A that
- B those
- C which
- D when

Answer: C

Question 72

(2)

- A Occasionally
- B Randomly
- C Rarely
- D Mostly

Answer: A

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Question 73

(3)

- A travels
- B tours
- C expeditions
- D excursions

Answer: D

Question 74

(4)

- A counts
- B is counted
- C have been counted
- D had been counted

Answer: B

Question 75

(5)

- A bore
- B bears
- C had borne
- D is bearing

Answer: B

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Mathematics

Instructions

For the following questions answer them individually

Question 76

Reflection of the point (4,6) in the origin is

- A (4,6)
- B (-4,6)
- C (-4,-6)
- D (4,-6)

Answer: C

Explanation:

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

=> Reflection of (4,6) = (-4,-6)

=> Ans - (C)

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Question 77

The reciprocal of the sum of the reciprocals of $\frac{2}{9}$ and $\frac{7}{10}$ is

- A 14/83
- B 83/14
- C 90/83
- D 83/90

Answer: A

Explanation:

Sum of the reciprocals of $2/9$ and $7/10$

$$= \frac{9}{2} + \frac{10}{7}$$

$$= \frac{9(7)+10(2)}{14} = \frac{63+20}{14}$$

$$= \frac{83}{14}$$

$$\Rightarrow \text{Reciprocal of } \frac{83}{14} = \frac{14}{83}$$

\Rightarrow Ans - (A)

Question 78

What is the equation of the line whose yintercept is 4 and making an angle of 45° with the positive axis?

- A $x + y = 4$
- B $x - y = 4$
- C $x + y = -4$
- D $x - y = -4$

Answer: D

Explanation:

Slope of line making an angle θ with positive x-axis = $\tan(\theta)$

$$\Rightarrow \text{Slope of given line, } m = \tan(45) = 1 \text{ and y-intercept, } c = 4$$

Equation of line = $y = mx + c$

$$\Rightarrow y = 1(x) + 4$$

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

\Rightarrow Ans - (D)

Question 79

What is the value of $(\sin A - 2\sin^3 A)/(2\cos^3 A - \cos A)$?

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

Answer: D

Explanation:

$$\text{Expression : } (\sin A - 2\sin^3 A)/(2\cos^3 A - \cos A)$$

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

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

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

$$= \tan A \times \frac{\cos^2 A - \sin^2 A}{\cos^2 A - \sin^2 A}$$

$$= \tan A \times 1 = \tan A$$

=> Ans - (D)

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Question 80

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

A 2

B 1

C -1

D -2

Answer: B

Explanation:

Expression 1 : $5x-5(3x-1) < 4x-1$

$$\Rightarrow 5x - 15x + 5 < 4x - 1$$

$$\Rightarrow 10x + 4x > 5 + 1$$

$$\Rightarrow 14x > 6$$

$$\Rightarrow x > \frac{3}{7} \text{ -----(i)}$$

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

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

$$\Rightarrow 2x < 3$$

$$\Rightarrow x < \frac{3}{2} \text{ -----(ii)}$$

Combining inequalities (i) and (ii), we get : $\frac{3}{7} < x < \frac{3}{2}$

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

=> Ans - (B)

Question 81

Simplify $(533bxaz)/(41ab)$

A $17xzb$

B $19xz$

C $13xz$

D $31ab$

Answer: C

Explanation:

Simplify : $(533bxaz)/(41ab)$

$$= \frac{533}{41} \times \frac{(ab)xz}{ab}$$

$$= 13xz$$

=> Ans - (C)

Question 82

If $x - y = 7$ and $xy = 32$, then value of $(x^2 + y^2)$ is

A 49

B 64

C 113

D 15

Answer: C

Explanation:

Given : $(x - y) = 7$ and $xy = 32$

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

$$\Rightarrow (7)^2 = (x^2 + y^2) - (2 \times 32)$$

$$\Rightarrow (x^2 + y^2) = 49 + 64 = 113$$

=> Ans - (C)

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Question 83

A wholesaler sells a watch to a retailer at a profit of 33% and the retailer sells it to a customer at a loss of 20%. If the customer pays Rs 2,181.2, what had it cost the wholesaler?

A Rs 2050

B Rs 2320

C Rs 2712

D Rs 1780

Answer: A

Explanation:

For the wholesaler,

Let the cost price = Rs. $100x$

With profit of 33%, Selling price = $\frac{133}{100} \times 100x = Rs.133x$

For the retailer,

Cost price = Rs. $133x$

With a loss of 20%, Selling price = $\frac{80}{100} \times 133x = Rs.106.4x$

For the customer,

Cost price = $106.4x = 2181.2$

$$\Rightarrow x = \frac{2181.2}{106.4} = 20.5$$

\therefore Cost price for retailer = $100 \times 20.5 = \text{Rs.}2050$

\Rightarrow Ans - (A)

Question 84

Product of digits of a 2digit number is 12. If we add 36 to the number, the new number obtained is a number formed by interchange of the digits. What is the number.

A 62

B 34

C 26

D 43

Answer: C

Explanation:

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

$$\Rightarrow \text{Number} = 10x + y$$

$$\text{Product of digits} = x \times y = 12 \text{ -----(i)}$$

$$\text{According to question, } \Rightarrow 10x + y + 36 = 10y + x$$

$$\Rightarrow 9y - 9x = 36$$

$$\Rightarrow y - x = \frac{36}{9} = 4 \text{ -----(ii)}$$

Solving equation (i) and (ii), we get : $x = 2$ and $y = 6$

\therefore Number = 26

\Rightarrow Ans - (C)

Question 85

If $\operatorname{cosec} \pi/4 - \sin \pi/3 = x$, then the value of x is

A $\frac{4}{\sqrt{3}}$

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

C $\frac{1\sqrt{3}}{\sqrt{3}}$

D $\sqrt{3} + 2$

Answer: B

Explanation:

Expression : $\operatorname{cosec} \pi/4 - \sin \pi/3 = x$

$$= \operatorname{cosec}(45) - \sin(60)$$

$$= (\sqrt{2}) - \left(\frac{\sqrt{3}}{2}\right)$$

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

\Rightarrow Ans - (B)

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Question 86

A man travels 404 kilometres in partly by rail and steamer. He spends 10 hours more time on steamer. If the speed of the steamer is 30 km/hr and the velocity of rail is 50 km/hr, how much distance does he cover by steamer?

- A 407 km
- B 509 km
- C 610 km
- D 339 km

Answer: D

Explanation:

Let distance covered by steamer = d km

=> Distance covered by rail = $(404 - d)$ km

Let time taken on rail = t hours and time taken on steamer = $(t + 10)$ hours

Speed of rail = 50 km/hr and speed of steamer = 30 km/hr

Using, speed = distance/time

For steamer, $\frac{d}{t+10} = 30$

=> $d = 30t + 300$ -----(i)

For rail, $\frac{404-d}{t} = 50$

Substituting value of d from equation (i), we get :

=> $404 - (30t + 300) = 50t$

=> $404 - 300 = 50t + 30t = 80t$

=> $t = \frac{104}{80} = 1.3$ hours

Substituting value of t in equation (i), => $d = (30 \times 1.3) + 300$

= $39 + 300 = 339$ km

Question 87

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

- A cosecA
- B cosA
- C sinA
- D tanA

Answer: C

Explanation:

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

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

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

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

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

=> Ans - (C)

Question 88

A solid right circular cone of radius 4 cm and height 7 cm is put inside a cylindrical vessel of radius 5 cm and height 8 cm. How much water in cubic cm will be required to fill the cylindrical vessel completely?

- A 1022.48 cubic cms
- B 1533.72 cubic cms
- C 511.24 cubic cms
- D 255.62 cubic cms

Answer: C

Explanation:

Radius of cylinder, R = 5 cm and height, H = 8 cm

Radius of cone, r = 4 cm and height, h = 7 cm

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

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

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

$$= \left(\frac{22}{7}\right) \left[(5^2 \times 8) - \left(\frac{1}{3} \times 4^2 \times 7\right)\right]$$

$$= \left(\frac{22}{7}\right) \left(200 - \frac{112}{3}\right)$$

$$= \frac{22}{7} \times \frac{488}{3}$$

$$\approx 511.24 \text{ cm}^3$$

=> Ans - (C)

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Question 89

If the amount received at the end of 2nd and 3rd year at Compound Interest on a certain Principal is Rs 24200, and Rs 26620 respectively, what is the rate of interest?

- A 10 percent
- B 5 percent
- C 20 percent
- D 16 percent

Answer: A

Explanation:

Compound interest at the end of 2nd year = Rs. 24,200

Compound interest at the end of 3rd year = Rs. 26,620

=> Difference = 26620 - 24200 = Rs. 2420

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

∴ Rate of interest, $r = \frac{2420}{24200} \times 100 = 10\%$

⇒ Ans - (A)

Question 90

Two numbers are 50% and 80% 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 150 percent
- B 60 percent
- C 30 percent
- D 37.5 percent

Answer: A

Explanation:

Let third number = $100x$

First number is 50% less than $100x$ and second number is 80% less than $100x$

⇒ First number = $50x$ and Second number = $20x$

To make second number equal to first number, it should be enhanced by = $50x - 20x = 30x$

⇒ Required % = $\frac{30x}{20x} \times 100 = \frac{300}{2} = 150\%$

⇒ Ans - (A)

Question 91

Manoj can do a piece of work in 42 hours. If he is joined by Jayashree who is 100% more efficient, in what time they will finish the work together?

- A 7 hours
- B 3.5 hours
- C 14 hours
- D 2.5 hours

Answer: C

Explanation:

Let total work to be done = 42 units

Manoj's efficiency = $\frac{42}{42} = 1$ unit/hr

Jayashree is 100% more efficient, ⇒ Jayashree's efficiency = $1 + \frac{100}{100} \times 1 = 2$ units/hr

(Manoj + Jayashree)'s 1 day's work together = $1 + 2 = 3$ units/hr

∴ Time taken by Manoj and Jayashree together to finish the work = $\frac{42}{3} = 14$ hours

⇒ Ans - (C)

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Question 92

The measures of the three angles of a triangle are in the ratio 1:2:3. What is the measure of the biggest angle?

- A 30°
- B 60°
- C 90°
- D 120°

Answer: C

Explanation:

Let the three angles of the triangle be $x, 2x, 3x$

Sum of internal angles of a triangle = 180°

$$\Rightarrow x + 2x + 3x = 180^\circ$$

$$\Rightarrow 6x = 180^\circ$$

$$\Rightarrow x = \frac{180}{6} = 30^\circ$$

$$\therefore \text{Biggest angle} = 3x = 3 \times 30 = 90^\circ$$

\Rightarrow Ans - (C)

Question 93

The average revenues of 13 consecutive years of a company is Rs 70 lakhs. If the average of first 7 years is Rs 65 lakhs and that of last 7 years is Rs 77 lakhs, find the revenue for the 7th year.

- A Rs 86 lakhs
- B Rs 84 lakhs
- C Rs 82 lakhs
- D Rs 80 lakhs

Answer: B

Explanation:

Total revenues of 13 years of the company = $70 \times 13 = \text{Rs. } 910$ lakhs

Total revenue of first 7 years = $65 \times 7 = \text{Rs. } 455$ lakhs

Total revenue of last 7 years = $77 \times 7 = \text{Rs. } 539$ lakhs

$$\therefore \text{Revenue of 7th year} = (455 + 539) - 910 = 994 - 910$$

$$= \text{Rs. } 84 \text{ lakhs}$$

\Rightarrow Ans - (B)

Question 94

Profit of Rs 144000 has to be divided among three partners Akram, Bipin and Chintan in the ratio 3:2:7. How much Rs. Chintan get?

- A 84000
- B 24000
- C 36000
- D 42000

Answer: A

Explanation:

Total profit to be distributed = Rs. 1,44,000

Ratio of profit divided among Akram, Bipin and Chintan = 3 : 2 : 7

Thus, amount that Chintan will get = $\frac{7}{(3+2+7)} \times 144,000$

$$= \frac{7}{12} \times 144,000$$

$$= 7 \times 12000 = \text{Rs } 84,000$$

=> Ans - (A)

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Question 95

Area ofequals half the product of its diagonal.

- A Parallelogram
- B Rectangle
- C Kite
- D Cyclic quadrilateral

Answer: C

Explanation:

Area of rhombus and kite is equal to half the product of its diagonal.

=> Ans - (C)

Question 96

The costs of daily ticket of local train is Rs. 50 and Monthly Pass costs is Rs. 1125. If I buy the Monthly Pass and travel for 30 days in a month then I save?

- A 10 percent
- B 25 percent
- C 14 percent
- D 15 percent

Answer: B

Explanation:

Train ticket cost for 1 day = Rs. 50

=> Cost for 30 days = $30 \times 50 = \text{Rs. } 1500$

Cost of monthly pass = Rs. 1125

=> Money saved = $1500 - 1125 = \text{Rs. } 375$

\therefore Required % = $\frac{375}{1500} \times 100 = 25\%$

=> Ans - (B)

Question 97

Read the data and answer the questions

	Weight	Hieght(M)
Apeksha	59	1.8
Apsara	51	1.72
Aradhana	62	1.57
Archana	74	1.68

Who has the least weight to height ratio?

- A Apeksha
- B Apsara
- C Aradhana
- D Archana

Answer: B

Explanation:

Ratio of weight to height

$$\text{Apeksha} : 1.8 = \frac{59}{1.8} = 32.7$$

$$\text{Apsara} : 1.72 = \frac{51}{1.72} = 29.6 \quad \text{[LEAST]}$$

$$\text{Aradhana} : 1.57 = \frac{62}{1.57} = 39.5$$

$$\text{Archana} : 1.68 = \frac{74}{1.68} = 44.1$$

=> Ans - (B)

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Question 98

Read the data and answer the given data ?

Years	Company's Profit in %
2011	15
2012	5
2013	10
2014	25
2015	15

What was the revenue of the company if its expenditure was Rs 525 crore in the year when its % profit was the least?

- A 577.5
- B 603.75
- C 525
- D 551.25

Answer: D

Explanation:

Profit % was least in 2012 = 5%

Let revenue = Rs. x crore and expenditure = Rs. 525 crore

$$\Rightarrow \text{Profit \%} = \frac{x-525}{525} \times 100 = 5$$

$$\Rightarrow \frac{x-525}{525} = \frac{5}{100} = \frac{1}{20}$$

$$\Rightarrow x - 525 = \frac{525}{20} = 26.25$$

$$\Rightarrow x = 525 + 26.25 = 551.25 \text{ crore}$$

\Rightarrow Ans - (D)

Question 99

Read the data and answer the given questions

No of Children	No of Houses
0	7
1	17
2	13
3	3

What is the average children per house?

- A 1.65
- B 1.3
- C 1.9
- D 1.15

Answer: B

Explanation:

Total number of houses = $7 + 17 + 13 + 3 = 40$

Total children = $(0 \times 7) + (1 \times 17) + (2 \times 13) + (3 \times 3)$

$= 17 + 26 + 9 = 52$

\therefore Average number of children per house = $\frac{52}{40} = 1.3$

\Rightarrow Ans - (B)

Question 100

Read the data and answer the given questions

Partners	Present % Share
Anand	20
Basu	5
Chinmay	25
Dhiraj	20
Ejaz	30

If the company has issued 6 lakh shares between its five partners and If Chinmay offers to sell 15000 of his shares to Dhiraj, then Dhiraj will have how many shares?

- A 120000 shares
- B 135000 shares
- C 150000 shares
- D 105000 shares

Answer: B

Explanation:

Total shares = 6,00,000

Original shares with Dhiraj = $\frac{20}{100} \times 600000 = 1,20,000$

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

=> Shares with Dhiraj = 1,20,000 + 15,000 = 1,35,000

=> Ans - (B)

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