



SSC CHSL 15 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.

Iron Man Of India : Sardar Vallabhbhai Patel :: Father of the Nation : ?

- A Lokmanya Tilak
- B Rajeev Gandhi
- C Jawahar Lal Nehru
- D Mahatma Gandhi

Answer: D

Explanation:

Sardar Vallabhbhai Patel is known as Iron Man Of India, similarly Mahatma Gandhi is known as the Father of the Nation.

=> Ans - (D)

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Question 2

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

GLIDERS : ERSDGLI :: TOASTER : ?

- A TERSTAO
- B TESRTOA
- C TERSTOA
- D TERRTOA

Answer: C

Explanation:

Expression = GLIDERS : ERSDGLI :: TOASTER : ?

The pattern followed is :

~~G L I D E R S~~
~~E R S D G L I~~

Similarly, TOASTER : TERSTOA

=> Ans - (C)

Question 3

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

THUNDER : UHTNRED :: THIEVES : ?

- A ITHSEV
- B IHTESV
- C IHTESEV

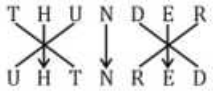
D IHTSEVE

Answer: C

Explanation:

Expression = THUNDER : UHTNRED :: THIEVES : ?

The pattern followed is :



Similarly, THIEVES : IHTESEV

=> Ans - (C)

Question 4

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

534 : 645 :: 381 : ?

A 446

B 486

C 492

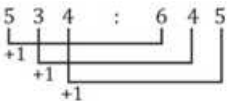
D 412

Answer: C

Explanation:

Expression = 534 : 645 :: 381 : ?

The pattern followed is :



Similarly, 381 : 492

=> Ans - (C)

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Question 5

Find out the odd word/letters/number/number pair from the given alternatives.

A Mustard gas

B Gasoline

C Diesel

D Natural gas

Answer: A

Explanation:

Except mustard gas others are petroleum products, hence it is the odd one out.

=> Ans - (A)

Question 6

Find out the odd word/letters/number/number pair from the given alternatives.

- A PD
- B LE
- C IC
- D DB



Answer: B

Explanation:

According to value of position first digit is divisible by second digit, i.e. :

$$P = 16 \text{ and } D = 4, \Rightarrow \frac{16}{4} = 4$$

$$L = 12 \text{ and } E = 5, \Rightarrow \frac{12}{5} = 2.4$$

$$I = 9 \text{ and } C = 3, \Rightarrow \frac{9}{3} = 3$$

$$D = 4 \text{ and } B = 2, \Rightarrow \frac{4}{2} = 2$$

\Rightarrow Ans - (B)

Question 7

Find out the odd word/letters/number/number pair from the given alternatives.

- A 125
- B 512
- C 1321
- D 1728

Answer: C

Explanation:

$125 = 5^3$, $512 = 8^3$ and $1728 = 12^3$, but 1321 is not a perfect cube, hence it is the odd one out.

\Rightarrow Ans - (C)

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Question 8

Find out the odd word/letters/number/number pair from the given alternatives.

- A 125
- B 512
- C 1331
- D 1728

Answer: D

Explanation:

The sum of digits of the numbers is 8, but $1 + 7 + 2 + 8 = 18$, hence 1728 is the odd one out.

\Rightarrow 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.
Dadabhai Naoroji, Bal Gangadhar Tilak, Lala Lajpat Rai, ?

- A Mahatma Gandhi
- B Jawaharlal Nehru
- C Subhash Chandra Bose
- D Bhagat Singh

Answer: A

Explanation:

The leaders are given in decreasing order of their ages.

= Dadabhai Naoroji -> Bal Gangadhar Tilak -> Lala Lajpat Rai -> Mahatma Gandhi

=> Ans - (A)

Question 10

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.
HK, ?, PQ, TT, XW

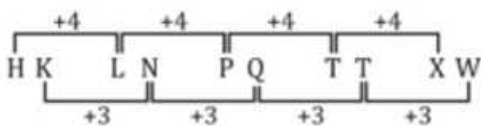
- A LN
- B NO
- C LK
- D NM

Answer: A

Explanation:

Expression : HK, ?, PQ, TT, XW

The pattern followed is :



Thus, missing term = LN

=> Ans - (A)

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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.
JN, OR, UW, BC, ?

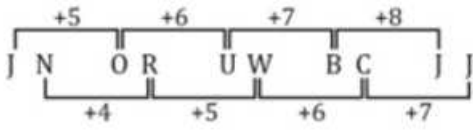
- A KM
- B JJ
- C JK
- D KJ

Answer: B

Explanation:

Expression : JN, OR, UW, BC, ?

The pattern followed is :



Thus, missing term = JJ

=> Ans - (B)

Question 12

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.
30, 62, 189, 760, ?

A 3306

B 1157

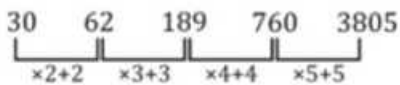
C 2185

D 3805

Answer: D

Explanation:

The pattern followed is :



Thus, missing number = 3805

=> Ans - (D)

Question 13

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

Statement:

(I) Only first division holders are admitted.

(II) Ram is a first division holder.

Conclusions:

(I) Ram is admitted.

(II) Only Ram is admitted.

A Conclusion I follows

B Conclusion II follows

C Neither I nor II follows

D Both I and II follows

Answer: A

Explanation:

The given statements indicate that only first division holders are admitted and Ram is a first division holder.

This definitely means that Ram is admitted, but there can be more than one first division holder, hence second conclusion is not true.

Thus, Only Conclusion I follows.

=> Ans - (A)

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Question 14

Five friends are sitting on a bench facing the north. Ankit is sitting to the immediate right of Anjum. Amit is sitting to the left of Priya and to the immediate right of Ram. Ram is sitting to the right of Ankit. Who is sitting at the extreme right end?

- A Amit
- B Ankit
- C Priya
- D Anjum

Answer: C

Explanation:

Ankit is sitting to the immediate right of Anjum. Ram is sitting to the right of Ankit.

=> Order of these three is : Anjum Ankit Ram

Amit is sitting to the left of Priya and to the immediate right of Ram.

=> Priya is sitting second to the right of Ram.

Thus, arrangement :

Anjum	Ankit	Ram	Amit	Priya
-------	-------	-----	------	-------

∴ Priya is sitting at the extreme right end.

=> Ans - (C)

Question 15

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

- i. Claim
- ii. Clearly
- iii. Clerk
- iv. Clerical

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

Answer: D

Explanation:

As per the order of dictionary :

= Claim -> Clearly -> Clerical -> Clerk

≡ i, ii, iv, iii

=> Ans - (D)

Question 16

In a certain code language, "PEPPER" is written as "@#@@#!" and "AIM" is written as "^?*". How is "PAMPER" written in that code language?

- A @^*@#!
- B @*^@#!
- C @^*#@!
- D @^*@!#

Answer: A

Explanation:

The codes for each letter is given :

- P -> @
- A -> ^
- M -> *
- P -> @
- E -> #
- R -> !

Thus, PAMPER : @^*@#!

=> Ans - (A)

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Question 17

Find the missing number in the given table

24	30	19
5	7	18
9	1	?

- A 4
- B 1
- C 5
- D 6

Answer: B

Explanation:

In the table along the columns,

$$24 + 5 + 9 = 38$$

$$30 + 7 + 1 = 38$$

Sum of numbers along the columns is 38.

Let the required number = a

Similarly from third column,

$$19 + 18 + a = 38$$

$$\Rightarrow a = 1$$

∴ The required number = 1

Hence, the correct answer is Option B

Question 18

If "#" means "subtraction", "&" means "division", "@" means "addition" and "%" means "multiplication", then $217 \& 7 \# 3 @ 2 \% 7 = ?$

- A 21
- B 19
- C 22
- D 42

Answer: D

Explanation:

Expression : $217 \& 7 \# 3 @ 2 \% 7 = ?$

$$\equiv 217 \div 7 - 3 + 2 \times 7$$

$$= \left(\frac{217}{7}\right) + (-3) + (2 \times 7)$$

$$= 31 - 3 + 14 = 42$$

=> 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?

JK_MJ_LM_KL_

- A JKLL
- B LKKM
- C LKJM
- D KJLM

Answer: C

Explanation:

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

= JKLM JKLM JKLM

=> Ans - (C)

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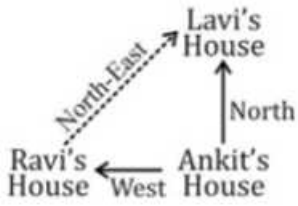
Question 20

Ravi's house is to the west of Ankit's house. Lavi's house is to the north of Ankit's house. In which direction is Lavi's house with respect to Ravi's house?

- A SouthWest
- B NorthEast
- C NorthWest
- D SouthEast

Answer: B

Explanation:



Ravi's house is to the west of Ankit's house and Lavi's house is to the north of Ankit's house.

Thus, Lavi's house is north-east of Ravi's house.

=> 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, 'O' can be represented by 65, 88 etc. and 'F' can be represented by 13, 42 etc. Similarly, you have to identify the set for the word 'NAVY'.

MATRIX 1

	0	1	2	3	4
0	A	T	G	D	O
1	I	A	N	F	I
2	N	V	Y	A	F
3	A	N	V	S	E
4	O	L	F	B	N

MATRIX 2

	5	6	7	8	9
5	Y	N	L	R	Y
6	O	I	V	A	O
7	N	V	S	L	F
8	Y	L	W	O	F
9	V	V	Y	H	A

A 20, 34, 76, 68

B 12, 79, 95, 55

C 44, 23, 67, 69

D 75, 00, 96, 59

Answer: D

Explanation:

(A) : 20, 34, 76, 68 = NEVA

(B) : 12, 79, 95, 55 = NFVY

(C) : 44, 23, 67, 69 = NAVO

(D) : 75, 00, 96, 59 = **NAVY**

=> Ans - (D)

Question 22

Pointing to a woman, a girl says, "Her daughter-in-law is married to the only son of my husband's mother-in-law." How is the girl related to the woman?

- A Niece
- B Granddaughter
- C Daughter
- D Cousin

Answer: C

Explanation:

Only son of the girl's husband's mother-in-law = girl's brother

Now, the woman's daughter-in-law is married to girl's brother.

Thus, the girl is the woman's daughter.

=> Ans - (C)

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Question 23

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



- A
- B
- C
- D

Answer: C

Explanation:

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

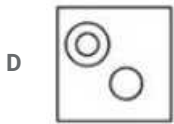
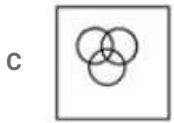
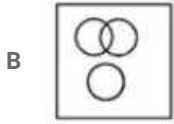
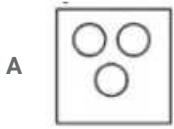
So the three parallel line at top right of square will be reversed and will now appear at top left, thus the second and last options will be eliminated.

Also, in the question figure, the line originating from bottom left diagonal will now appear from bottom right, hence third option is the right image.

=> Ans - (C)

Question 24

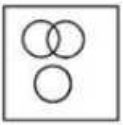
Identify the diagram that best represents the relationship among the given classes, Sister, Mother, Brother



Answer: B

Explanation:

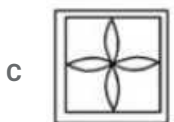
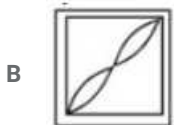
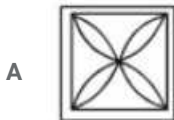
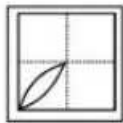
Some mothers can be sisters and vice-versa, but a brother, being a boy can never be a sister or mother. Thus, the second diagram best describes above relationship.



=> Ans - (B)

Question 25

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



D



Answer: A

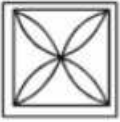
Explanation:

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

When the paper is unfolded first to the right, similar curved pattern will appear on the right.

When the paper is unfolded again to the top, similar curved pattern will appear on the top left and top right 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 26

The unit of measurement of a word length is

- A Meter
- B Byte
- C Bit
- D Millimetre

Answer: B

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Question 27

Who invented EMail?

- A Tim BernersLee
- B James Gosling
- C Vinton Cerf
- D VA Shiva Ayyadurai

Answer: D

Question 28

Which of the following is also used as a Bio fertilizer?

- A Urea
- B Ammonia
- C Uric Acid
- D Nitrates

Answer: B

Question 29

Which one of the following is an insectivorous plant?

- A Utricularia
- B Sequoia Gigantia
- C Nostoc
- D Bryophyta

Answer: A

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Question 30

.....is a multibranched polysaccharide of glucose that serves as a form of energy storage in animals and fungi.

- A Cellulose
- B Glycogen
- C Pectin
- D Chitin

Answer: B

Question 31

Which of the following gas leaked in the Bhopal Gas tragedy in December 1984?

- A Methyl isocyanate
- B Methyl isochlorate
- C Methyl Phosphate
- D Methyl Isopropate

Answer: A

Question 32

.....is used for making vinegar.

- A Tartaric acid
- B Malic acid

C Oxalic acid

D Acetic acid

Answer: D

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Question 33

Who built Shantiniketan?

A Guru Ramdas

B Maharaja Pratap Singh

C Rabindra Nath Tagore

D British Govt

Answer: C

Question 34

The language in which Buddha preached?

A Hindi

B Urdu

C Pali

D Hebrew

Answer: C

Question 35

If the average total cost are Rs 54, total fixed cost is Rs 45000 and quantity produced is 2500 units, find the average variable costs (in Rs) of the firm?

A 24

B 18

C 36

D 60

Answer: C

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Question 36

What does the law of demand state?

A if the price of a good increases, the demand for that good decreases.

B if the price of a good increases, the the demand for that good increases.

C if the price of a good increases, the quantity demanded of that good decreases.

D if the price of a good increases, the quantity demanded of that good increases.

Answer: C

Question 37

Major portion of the earth's crust is mainly constituted by

A Oxygen and Iron

B Oxygen and Silicon

C Silicon and Iron

D Silicon and Aluminium

Answer: B

Question 38

Cinnabar is an ore/mineral of

A Lead

B Manganese

C Molybdenum

D Mercury

Answer: D

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Question 39

Who played the lead character in the movie "Bandit Queen"?

A Rupa Ganguly

B Sangeeta Mahapatra

C Seema Biswas

D Sonali Saha

Answer: C

Question 40

If a star is bigger than Sun, but not more than twice as big, it will turn into a.....

A Pulsar

B Maxima

C Avenger

D Discover

Answer: A

Question 41

Name the largest desert of Asia

- A Thar
- B Gobi
- C Takla Makan
- D Karakum

Answer: B

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Question 42

Who was appointed by Akbar as his Court Musician?

- A Abul Fazal
- B Mian Tansen
- C Raja Birbal
- D Raja Todar Mal

Answer: B

Question 43

Ashoka was a king of which dynasty?

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

Answer: C

Question 44

Which Indian won a Nobel Peace Prize in 2014?

- A Kailash Satyarthi
- B Venkat Raman
- C Ram Krishnan
- D Mother Teresa

Answer: A

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Question 45

One nanometer is equal to.....meters.

- A 10 raised to the power (c:
- B 10 raised to the power (6)
- C b: 10 raised to the power (6)
c: 10 raised to the power (9)
- D 10 raised to the power (1b:

Answer: C

Question 46

What is the unit of relative density?

- A kg/m
- B kg/m²
- C kg/m³
- D It has no unit

Answer: D

Question 47

To be a voter in India, what is the minimum qualifying age?

- A 24 Years
- B 22 Years
- C 20 Years
- D 18 Years

Answer: D

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Question 48

Indian Constitution came into force on

- A 15th August 1947
- B 26th January 1950
- C 26th November 1948
- D 6th November 1948

Answer: B

Question 49

The first Asian city to host Summer Olympics was.....

- A Moscow
- B Beijing
- C Tokyo
- D Singapore

Answer: C

Question 50

Who is the author of "I Too Had A Love Story"?

- A Jhumpa Lahiri
- B Amish Tripathi
- C Ravinder Singh
- D Salman Rushdie

Answer: C

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English

Instructions

For the following questions answer them individually

Question 51

Select the synonym of spine

- A supple
- B vertebrae
- C rotund
- D grime

Answer: B

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Question 52

Improve the bracketed part of the sentence. If I (have had) money, I would have bought this car.

- A had
- B did have
- C had had

D no improvement

Answer: A

Question 53

Rearrange the parts of the sentence in correct order.

The first clue

Pto the nature of this agenda

Qlies in the origin of

Rthe smart city idea itself

A RPQ

B QPR

C QRP

D PQR

Answer: D

Question 54

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

I had invited(A)/all my sisterinlaws(B)/to my son's birthday party.(C)/No error(D)

A A

B B

C C

D D

Answer: B

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Question 55

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase.
a loud, harsh, piercing cry

A noise

B howl

C screech

D cry

Answer: C

Question 56

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

A To lose impetus or enthusiasm

- B To work quickly like a machine
- C To give up easily
- D no more money to spend

Answer: A

Question 57

Select the word with the correct spelling.

- A haunchhes
- B exulltant
- C marketted
- D transmit

Answer: D

Explanation:

The correct spelling of 'haunchhes' is 'haunches'.

The correct spelling of 'exulltant' is 'exultant'.

The correct spelling of 'marketted' is 'marketed'.

The only word correctly spelled among the given options is 'transmit'. Therefore, option D is the right answer.

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Question 58

Select the antonym of demure

- A humble
- B bold
- C coy
- D sober

Answer: B

Explanation:

'Demure' means 'shy and reserved'.

'Coy' means 'pretending to be shy'. 'Sober' means 'not under the influence of alcohol'.

Therefore, 'bold' is the word opposite in meaning to 'demure'. Hence, option B is the right answer.

Question 59

Select the word with the correct spelling.

- A stumbal
- B wrinkeled
- C bristles
- D reassert

Answer: C

Question 60

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 payment was collected by the hardworking salesman.

- A The hardworking salesman collected the payment.
- B The salesman who worked hard was able to collect the payment.
- C To collect the payment the salesman had to work hard.
- D The hardworking salesman was able to collect the payment.

Answer: A

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Question 61

In the following question, a sentence has been given in Direct/Indirect speech. Out of the four alternatives suggested, select the one which best express the same sentence in Indirect/Direct speech.

The client said to the ticketseller, "At what time do the counters close?"

- A The client asked the ticketseller at what time the counters closed.
- B The client asked the ticketseller at what time did the counters always close.
- C The client said to the ticketseller at what time the counters close.
- D The client inquired to the ticketseller at what time the counters usually close.

Answer: A

Question 62

Improve the bracketed part of the sentence.

This palace (has been belonging) to our family since generations.

- A has belonging
- B has belonged
- C belonged
- D no improvement

Answer: B

Question 63

Rearrange the parts of the sentence in correct order.

One year after its official launch,

While expectations

Qhas largely escaped political scrutiny

Rhave been scaled down, the rhetoric

- A QPR
- B RPQ

C PRQ

D PQR

Answer: C

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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.

The Department has..... a complaint against Mr. Bakshi.

A expressed

B registered

C informed

D noted

Answer: B

Question 65

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

A hollow object used to contain something.

A platter

B salver

C plate

D receptacle

Answer: D

Question 66

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

He has a.....interest in studying human psychology.

A deep

B wide

C vast

D heavy

Answer: A

Explanation:

The sentence expresses an interest in 'human psychology'. Since it is a single subject, 'wide' does not fit the blank. Only the word 'deep' fits the blank correctly.

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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'.

Due to me being new(A)/to the city, I had(B)/difficulty in finding a job.(C)/No error(D)

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

Answer: A

Question 68

Select the synonym of purge

- A evacuate
- B pressurize
- C thrust
- D float

Answer: A

Explanation:

'Purge' means to get rid of something. Option A - 'evacuate' also means the same thing.

Question 69

Select the antonym of genteel

- A uncivilized
- B stuffy
- C urbane
- D prim

Answer: A

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Question 70

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

- A when time is in your favour
- B saved at the last moment
- C the bell rings at the most opportune time
- D prayers are answered when the church bell rings

Answer: B

Explanation:

'saved by the bell' means to escape narrowly. Hence, option B is the correct answer.

Instructions

In the following passage some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives.

In Greek mythology, it is said that Lycurgus, the ruler of Sparta,(1).....a promise from his(2)....., assuring him of the immutability of his laws till he returned from an(3).....journey. To make his laws immutable, Lycurgus(4)..... Seven justices of the Indian Supreme Court on a historic day in 1973 christened themselves as modernday Lycurguses, seeking to create, in India's constitutional context, an island of immutability,(5).....titled the "basic structure".

Question 71

(1)

A elicited

B derived

C evinced

D attested

Answer: A

Explanation:

The tone of the sentence suggests that he made someone to give him a promise of something. Hence, 'elicit' is the best fit for the blank as it means to call forth something. Hence, option A is the correct answer.

Question 72

(2)

A nation

B society

C subjects

D community

Answer: C

Explanation:

The sentence says that he got a promise from someone. Hence, in this context, 'subjects' is the best fit as it means that he made his people promise him that they will adhere to his laws till he returns. Hence, option C is the correct answer.

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Question 73

(3)

A impending

B brewing

C approaching

D looming

Answer: A

Explanation:

The sentence talks about his return from some journey. The context of the passage suggests that the promise was made before he set forth for the journey. Hence, impending is the best choice. Thus, option A is correct.

Question 74

(4)

- A did not return
- B never did return
- C never returns
- D never returned

Answer: D

Explanation:

From the passage, it is clear that his subjects had promised him that his laws would be immutable till he returns. Hence, if never returns than his laws will remain immutable. Thus, option D is correct.

Question 75

(5)

- A timely
- B aptly
- C opportunely
- D pertinently

Answer: B

Explanation:

From the reading of the passage, it is clear that the title appropriately fits the context. Hence, 'apt' is the right choice for the given blank. Hence, option B is correct.

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Mathematics

Instructions

For the following questions answer them individually

Question 76

What should be added to $8(3x-4y)$ to obtain $18x-18y$?

- A $6x - 14y$
- B $14y + 6x$
- C $14y - 6x$
- D $6xy$

Answer: C

Explanation:

Let m should be added to $8(3x-4y)$ to obtain $18x-18y$

$$\Rightarrow (m) + [8(3x - 4y)] = 18x - 18y$$

$$\Rightarrow m + 24x - 32y = 18x - 18y$$

$$\Rightarrow m = (32y - 18y) + (18x - 24x)$$

$$\Rightarrow m = 14y - 6x$$

\Rightarrow Ans - (C)

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Question 77

What is the equation of the line whose yintercept is $\frac{3}{4}$ and making an angle of 45° with the positive xaxis?

A $4x - 4y = 2$

B $4x - 4y = -3$

C $3x - 3y = 4$

D $3x - 4y = 4$

Answer: B

Explanation:

Slope of line making an angle of 45° with the positive x-axis = $\tan(45^\circ)$

$$\Rightarrow \text{Slope, } m = 1$$

$$\text{y-intercept, } c = \frac{3}{4}$$

Equation of line having slope m and y intercept c is : $y = mx + c$

$$\Rightarrow y = x + \frac{3}{4}$$

$$\Rightarrow 4y = 4x + 3$$

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

\Rightarrow Ans - (B)

Question 78

If a retailer offers a discount of 32% on the marked price of his goods and thus ends up selling at cost price, what was the % markup price?

A 24 percent

B 47.05 percent

C 22.34 percent

D 32 percent

Answer: B

Explanation:

Let marked price = Rs.100

Discount % = 32%

$$\Rightarrow \text{Selling price} = 100 - \left(\frac{32}{100} \times 100\right)$$

$$= 100 - 32 = \text{Rs.68}$$

According to ques, \Rightarrow Cost price = Selling price = Rs. 68

$$\therefore \text{Markup \%} = \frac{100-68}{68} \times 100$$

$$= \frac{32}{68} \times 100 = 47.05\%$$

\Rightarrow Ans - (B)

Question 79

In what ratio does the point T (3,0) divide the segment joining the points S (4,2) and U (1,4)?

A 2:1

B 1:2

C 2:3

D 3:2

Answer: B

Explanation:

Using section formula, the coordinates of point that divides line joining A = (x_1, y_1) and B = (x_2, y_2) in the ratio a : b

$$= \left(\frac{ax_2+bx_1}{a+b}, \frac{ay_2+by_1}{a+b} \right)$$

Let the ratio in which the segment joining S and U is divided by the point T = $k : 1$

Now, point T(3,0) divides S(4,2) and U(1,4) in ratio = $k : 1$

$$\Rightarrow 0 = \frac{(4 \times k) + (2 \times 1)}{k+1}$$

$$\Rightarrow 4k + 2 = 0$$

$$\Rightarrow k = \frac{-2}{4} = \frac{-1}{2}$$

\therefore Line segment joining S and U is divided by T in the ratio = 1 : 2 externally

\Rightarrow Ans - (B)

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Question 80

The average revenues of 7 consecutive years of a company is Rs 75 lakhs. If the average of first 4 years is Rs 70 lakhs and that of last 4 years is Rs 82 lakhs, what will be the revenue for the 4th year.

A Rs 85 lakhs

B Rs 83 lakhs

C Rs 81 lakhs

D Rs 79 lakhs

Answer: B

Explanation:

Total revenues of 7 years of the company = $75 \times 7 = \text{Rs. } 525$ lakhs

Total revenue of first 4 years = $70 \times 4 = \text{Rs. } 280$ lakhs

Total revenue of last 4 years = $82 \times 4 = \text{Rs. } 328$ lakhs

\therefore Revenue of 4th year = $(280 + 328) - 525 = 608 - 525$

= Rs. 83 lakhs

=> Ans - (B)

Question 81

$(1 + \tan^2 A) \cot A$
 $\csc^2 A$ is equal to

A cotA

B tanA

C sinA

D cosA

Answer: B

Explanation:

Expression : $(1 + \tan^2 A) \cot A$
 $\csc^2 A$

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

$$= \frac{\sec^2 A \cot A}{\csc^2 A}$$

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

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

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

$$= \frac{\sin A}{\cos A} = \tan A$$

=> Ans - (B)

Question 82

A mason can build a wall in 70 hours. After 7 hours he takes a break. What fraction of the wall is yet to be built?

A 0.9

B 0.8

C 0.5

D 0.75

Answer: A

Explanation:

Time taken to build the wall = 70 hours

Time spent = 7 hours

$$\Rightarrow \text{Fraction of the wall yet to be built} = \frac{(70-7)}{70} = \frac{63}{70}$$

$$= \frac{9}{10} = 0.9$$

=> Ans - (A)

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Question 83

To cover a distance of 216 km in 3.2 hours, what should be the average speed of the car in meters/second?

- A 67.5 m/s
- B 33.75 m/s
- C 37.5 m/s
- D 18.75 m/s

Answer: D

Explanation:

The car covers 216 km in 3.2 hours

$$\text{Speed of car (in km/hr)} = \frac{216}{3.2} = 67.5 \text{ km/hr}$$

$$\Rightarrow \text{Speed in m/s} = 67.5 \times \frac{5}{18}$$

$$= 5 \times 3.75 = 18.75 \text{ m/s}$$

∴ In 1 second, it travels 18.75 metres

⇒ Ans - (D)

Question 84

Which of the following numbers is completely divisible by 99?

- A 57717
- B 57627
- C 55162
- D 56982

Answer: A

Explanation:

For a number to be divisible by 99, it must be divisible by 9 and 11

Divisibility rule of 9: Sum of the digits must be divisible by 9.

Divisibility rule of 11: Absolute value of (Sum of digits in even positions - Sum of digits in odd positions) = 0 or 11

(A) : $57717 = 5 + 7 + 7 + 1 + 7 = 27$ which is divisible by 9 and also by 11

(B) : $57627 = 5 + 7 + 6 + 2 + 7 = 27$ which is divisible by 9 but not by 11

(C) : $55162 = 5 + 5 + 1 + 6 + 2 = 19$ which is not divisible by 9

(D) : $56982 = 5 + 6 + 9 + 8 + 2 = 30$ which is not divisible by 9

Thus, only option (A) is divisible by 99

Question 85

On a certain principal if the simple interest for two years is Rs 1400 and compound interest for the two years is Rs 1449, what is the rate of Interest?

- A 7 percent
- B 3.5 percent
- C 14 percent
- D 10.5 percent

Answer: A

Explanation:

Let the principal amount = $Rs.100x$ and rate of interest = $r\%$

Time period = 2 years

$$\text{Simple Interest} = \frac{P \times R \times T}{100} = 1400$$

$$\Rightarrow \frac{100x \times r \times 2}{100} = 1400$$

$$\Rightarrow 2rx = 1400$$

$$\Rightarrow x = \frac{1400}{2r} = \frac{700}{r}$$

$$\text{Compound Interest} = P \left[\left(1 + \frac{R}{100} \right)^T - 1 \right] = 1449$$

$$\Rightarrow 100x \left[\left(1 + \frac{r}{100} \right)^2 - 1 \right] = 1449$$

$$\Rightarrow 100x \left[\left(1 + \frac{r^2}{100^2} + 2 \frac{r}{100} \right) - 1 \right] = 1449$$

$$\Rightarrow \left(100 \times \frac{700}{r} \right) \left[\frac{r^2}{10000} + \frac{2r}{100} \right] = 1449$$

$$\Rightarrow 7r + 1400 = 1449$$

$$\Rightarrow 7r = 1449 - 1400 = 49$$

$$\Rightarrow r = \frac{49}{7} = 7\%$$

\Rightarrow Ans - (A)

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Question 86

In an army selection process, the ratio of selected to unselected was 3:1. If 80 less had applied and 40 less selected, the ratio of selected to unselected would have been 4:1. How many candidates had applied for the process?

- A 480
- B 960
- C 240
- D 1440

Answer: A

Explanation:

Let $4x$ candidates applied for the process.

Candidates selected = $3x$ and candidates not selected = x

If candidates applied = $4x - 80$

Candidates selected = $3x - 40$

$$\Rightarrow \text{Candidates not selected} = (4x - 80) - (3x - 40) = x - 40$$

According to ques,

$$\Rightarrow \frac{3x-40}{x-40} = \frac{4}{1}$$

$$\Rightarrow 3x - 40 = 4x - 160$$

$$\Rightarrow x = 160 - 40 = 120$$

\therefore Number of candidates who applied for the process = $4 \times 120 = 480$

\Rightarrow Ans - (A)

Question 87

If $4(2x+3) > 5-x$ and $5x - 3(2x-7) > 3x-1$, then x can take which of the following values?

- A -6
- B -1
- C 5
- D 6

Answer: C

Explanation:

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

$$\Rightarrow 8x + 12 > 5 - x$$

$$\Rightarrow 8x + x > 5 - 12$$

$$\Rightarrow 9x > -7$$

$$\Rightarrow x > \frac{-7}{9} \text{ -----(i)}$$

Expression 2 : $5x - 3(2x-7) > 3x-1$

$$\Rightarrow 5x - 6x + 21 > 3x - 1$$

$$\Rightarrow 3x + x < 21 + 1$$

$$\Rightarrow 4x < 22$$

$$\Rightarrow x < \frac{11}{2} \text{ -----(ii)}$$

Combining inequalities (i) and (ii), we get : $\frac{-7}{9} < x < \frac{11}{2}$

The only value that x can take among the options = 5

\Rightarrow Ans - (C)

Question 88

If $5x - 40 = 3x$, then the numerical value of $2x - 11$ is

- A 29
- B 39
- C 19
- D 9

Answer: A

Explanation:

Expression : $5x - 40 = 3x$

$$\Rightarrow 5x - 3x = 40$$

$$\Rightarrow x = \frac{40}{2} = 20$$

To find : $2x - 11$

$$= (2 \times 20) - 11$$

$$= 40 - 11 = 29$$

\Rightarrow Ans - (A)

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Question 89

Which of the following equations has equal roots?

A $3x^2 - 6x + 2 = 0$

B $3x^2 - 6x + 3 = 0$

C $x^2 - 8x + 8 = 0$

D $4x^2 - 8x + 2 = 0$

Answer: B

Explanation:

A quadratic equation : $ax^2 + bx + c = 0$ has equal roots iff Discriminant, $D = b^2 - 4ac = 0$

(A) : $3x^2 - 6x + 2 = 0$

$\Rightarrow D = (-6)^2 - 4(3)(2) = 36 - 24 = 12 \neq 0$

(B) : $3x^2 - 6x + 3 = 0$

$\Rightarrow D = (-6)^2 - 4(3)(3) = 36 - 36 = 0$

(C) : $x^2 - 8x + 8 = 0$

$\Rightarrow D = (-8)^2 - 4(1)(8) = 64 - 32 = 32 \neq 0$

(D) : $4x^2 - 8x + 2 = 0$

$\Rightarrow D = (-8)^2 - 4(4)(2) = 64 - 32 = 32 \neq 0$

Thus, the equation : $3x^2 - 6x + 3 = 0$ has equal roots.

Question 90

Two students appeared for an examination. One of them secured 9 marks more than the other and his marks were 56% of the sum of their marks. The marks obtained by them are

A 40 and 31

B 72 and 63

C 42 and 33

D 68 and 59

Answer: C

Explanation:

Let marks scored by 1st student = x

\Rightarrow Marks scored by another student = $(x + 9)$

According to question, $\Rightarrow (x + 9) = \frac{56}{100} \times (x + x + 9)$

$\Rightarrow x + 9 = \frac{14}{25} \times (2x + 9)$

$\Rightarrow 25x + 225 = 28x + 126$

$\Rightarrow 3x = 225 - 126 = 99$

$\Rightarrow x = \frac{99}{3} = 33$

\therefore Marks scored by other student = $33 + 9 = 42$

=> Ans - (C)

Question 91

If $\tan(A - B) = X$, then the value of X is

A $\frac{(\tan A - \tan B)}{(1 - \tan A \tan B)}$

B $\frac{(\tan A + \tan B)}{(1 - \tan A \tan B)}$

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

D $\frac{(\tan A + \tan B)}{(1 + \tan A \tan B)}$

Answer: C

Explanation:

Expression : $\tan(A - B) = X$

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

$$= \frac{\sin A \cos B - \cos A \sin B}{\cos A \cos B + \sin A \sin B}$$

Dividing both numerator and denominator by $(\cos A \cos B)$

$$= \frac{\sin A \cos B - \cos A \sin B}{\cos A \cos B} \div \frac{\cos A \cos B + \sin A \sin B}{\cos A \cos B}$$

$$= \frac{\tan A - \tan B}{1 + \tan A \tan B}$$

=> Ans - (C)

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Question 92

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

A 2

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

C 4

D $\frac{2}{\sqrt{3}}$

Answer: D

Explanation:

Expression : $\sec 330^\circ$

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

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

=> Ans - (D)

Question 93

In a triangle the length of the side opposite the angle which measures 45° is 8 cm, what is the length of the side opposite to the angle which measures 90° ?

- A $8\sqrt{2}$ cm
- B $4\sqrt{2}$ cm
- C $8\sqrt{3}$ cm
- D $4\sqrt{3}$ cm

Answer: A

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 = 8 cm

Let length of hypotenuse = h cm

$$\Rightarrow h^2 = (8)^2 + (8)^2$$

$$\Rightarrow h = \sqrt{2 \times (8)^2}$$

$$\Rightarrow h = 8\sqrt{2} \text{ cm}$$

\Rightarrow Ans - (A)

Question 94

A trader had 22 quintals of wheat. He sold a part of it at 23% profit and the rest at 33% profit, so that he made a total profit of 27%. How much wheat did he sell at 33% profit?

- A 1320 kg
- B 440 kg
- C 880 kg
- D 1760 kg

Answer: C

Explanation:

1 quintal = 100 kg \Rightarrow 22 quintals = 2200 kg

Let the part he sold at 33% profit = x kg

\Rightarrow Part he sold at 23% profit = $(2200 - x)$ kg

Total profit made by the trader = 27%

$$\Rightarrow 33x + 23(2200 - x) = 27 \times 2200$$

$$\Rightarrow 33x + (23 \times 2200) - 23x = 27 \times 2200$$

$$\Rightarrow 10x = 2200 \times (27 - 23)$$

$$\Rightarrow x = 220 \times 4 = 880 \text{ kg}$$

\Rightarrow Ans - (C)

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Question 95

If curved surface area of a cylinder is 1386 sq cm and height is 21 cm, what will be its radius? (Take $\pi = 22/7$)

- A 21 cms

- B 5.25 cms
- C 10.5 cms
- D 15.75 cms

Answer: C

Explanation:

Let radius of cylinder = r cm and height, $h = 21$ cm

Curved surface area of cylinder = $2\pi rh = 1386$

$$\Rightarrow 2 \times \frac{22}{7} \times r \times 21 = 1386$$

$$\Rightarrow 44 \times 3 \times r = 1386$$

$$\Rightarrow r = \frac{1386}{44 \times 3} = 10.5 \text{ cm}$$

\Rightarrow Ans - (C)

Question 96

A solid has 12 vertices and 30 edges. How many faces does it have?

- A 22
- B 24
- C 26
- D 20

Answer: D

Explanation:

Euler's formula : $V + F - E = 2$ where V is number of vertices , F is number of faces and E is number of edges.

It is given that $V = 12$ and $E = 30$

$$\Rightarrow F = 2 + E - V$$

$$= 2 + 30 - 12 = 20$$

\Rightarrow Ans - (D)

Question 97

Refer the below data table and answer the following Question.

	Boys	Girls
Medical	30	70
Engineering	75	25

What percent students who chose Engineering are girls?

- A 26.32
- B 12.5
- C 25
- D 33.33

Answer: C

Explanation:

Number of girls who chose engineering = 25

Total number of engineers = $75 + 25 = 100$

=> Percent of the girls who choose engineering = $\frac{25}{100} \times 100 = 25\%$

=> Ans - (C)

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Question 98

Refer the below data table and answer the following Question.

	Cumulative Production
January	590
February	1240
March	1940
April	2610
May	3050
June	3420

How many cars were manufactured in the months of April and May?

- A 810
- B 1370
- C 5660
- D 1110

Answer: D

Explanation:

Number of cars produced in :

January = 590

February = $1240 - 590 = 650$

March = $1940 - 1240 = 700$

April = $2610 - 1940 = 670$

May = $3050 - 2610 = 440$

June = $3420 - 3050 = 370$

=> Number of cars that were manufactured in the month of the April and may = $670 + 440 = 1110$

=> Ans - (D)

Question 99

Refer the below data table and answer the following Question.

Day of the Week	Distance Jogged
Monday	3
Tuesday	2
Wednesday	2.5
Thursday	5
Friday	1
Saturday	2.5
Sunday	4

If 400 calories are burned by jogging 5km, how many calories were burnt in the given week?

- A 1650 calories
- B 1550 calories
- C 1500 calories
- D 1600 calories

Answer: D

Explanation:

Total distance jogged in entire week

$$= 3 + 2 + 2.5 + 5 + 1 + 2.5 + 4 = 20 \text{ km}$$

Calories burned after jogging 5 km = 400 calories

$$\Rightarrow \text{Calories burned after jogging 20 km} = \frac{400}{5} \times 20$$

$$= 80 \times 20 = 1600 \text{ calories}$$

\Rightarrow Ans - (D)

Question 100

Refer the below data table and answer the following Question.

Items	Yearly Expense
Raw Materials	11
Labour	7
Rent	5
Interest	3
Taxes	3

Raw Materials and Taxes are what percent of total expenses?

- A 55.53 percent
- B 41.03 percent
- C 33.78 percent
- D 48.28 percent

Answer: D

Explanation:

Yearly expense in Raw material and taxes (in lakhs) = 11 + 3 = 14

Total expenses (in lakhs) = 11 + 7 + 5 + 3 + 3 = 29

$$\Rightarrow \text{Required \%} = \frac{14}{29} \times 100$$

$$= \frac{1400}{29} \approx 48.28\%$$

\Rightarrow Ans - (D)

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