



SSC CHSL 29 Jan 2017 Morning 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.

Iraq : Dinar :: Korea : ?

- A Pound
- B Yen
- C Dollar
- D Won

Answer: D

Explanation:

Expression = Iraq : Dinar :: Korea : ?

Dinar is the currency of Iraq, similarly Won is the currency of Korea.

=> Ans - (D)

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Question 2

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

AOE : ? :: GMA : IUO

- A MXI
- B MWS
- C MWI
- D MXJ

Answer: C

Explanation:

Expression = GMA : IUO

The pattern followed is that if we *reverse* the word, we get = AMG and the code is :

A	M	G
(+8)	(+8)	(+8)
I	U	O

Similarly, reverse of AOE is :

E	O	A
(+8)	(+8)	(+8)
M	W	I

=> Ans - (C)

Question 3

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

deF : lhg :: wxY : ?

- A bAZ
- B Baz
- C BaZ
- D baz

Answer: B

Explanation:

Expression = deF : lhg : : wxY : ?

The pattern followed is that consecutive letters are written according to the English alphabetical order, with last three letters in reverse order. Also, the last letter of first term and first letter of second term is in capital.

Similarly, the letters which will follow wxY are (with first letter capital and in reverse) = **Baz**

=> Ans - (B)

Question 4

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

81 : 121 :: 49 : ?

- A 81
- B 62
- C 52
- D 100

Answer: A

Explanation:

Expression = 81 : 121 :: 49 : ?

The pattern followed is = $(x)^2 : (x + 2)^2$

Eg :- $9^2 : (9 + 2)^2 = 81 : 121$

Similarly, $7^2 = 49$

=> $(7 + 2)^2 = (9)^2 = 81$

=> Ans - (A)

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Question 5

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

- A Car
- B Helicopter
- C Bus
- D Train

Answer: B

Explanation:

Car, bus and train are means of transport operated on the ground, hence helicopter is the odd one out.

=> Ans - (B)

Question 6

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

A BEH

B DGJ

C HKN

D MNO

Answer: D

Explanation:

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

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

(C) : H (+3 letters) = K (+3 letters) = N

(D) : M (+1 letter) = N (+1 letter) = O

=> Ans - (D)

Question 7

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

A 5210

B 8432

C 8648

D 7240

Answer: D

Explanation:

The product of first two digits of the numbers is equal to the last digits

$5 \times 2 = 10$, $8 \times 4 = 32$, $8 \times 6 = 48$

But $7 \times 2 = 14 \neq 40$

=> Ans - (D)

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Question 8

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

A 81

B 125

C 64

D 198

Answer: D

Explanation:

$81 = 9^2$, $125 = 5^3$ and $64 = 4^3 = 8^2$, but 198 is neither a perfect cube nor a perfect square number, hence 198 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.

ijk, mno, lmn, pqr, opq,?

A stv

B suv

C stu

D stt

Answer: C

Explanation:

Expression : ijk, mno, lmn, pqr, opq,?

The pattern followed is that alternate terms are consecutive letters of English alphabetical series.

Eg :- ijk , lmn , opq

Similarly, after : mno , pqr , **stu**

=> Ans - (C)

Question 10

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

AZ, BY, CX,?

A CW

B DW

C DX

D DY

Answer: B

Explanation:

Expression : AZ, BY, CX,?

The pattern followed in each letter of the terms is :

1st letter : A (+1 letter) = B (+1 letter) = C (+1 letter) = D

2nd letter : Z (-1 letter) = Y (-1 letter) = X (-1 letter) = W

Thus, missing term = **DW**

=> Ans - (B)

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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.

23, 32, 42, 53, 65, ?

- A 78
- B 88
- C 58
- D 98

Answer: A

Explanation:

Consecutive natural numbers are added.

$$23 + 9 = 32$$

$$32 + 10 = 42$$

$$42 + 11 = 53$$

$$53 + 12 = 65$$

$$65 + 13 = 78$$

=> Ans - (A)

Question 12

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) Life is a journey with few known people, few partially known and mostly strangers.

(II) In a journey, the importance of destination is as equal as the pathway of reaching that destination.

Conclusions:

(I) Importance of people in life is considerable, as they are our journey mates.

(II) Life teaches us many lessons to face various known and unknown difficulties.

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

Answer: D

Explanation:

From the statement II, it is clear that path way of reaching destination is important. In life the path way of reaching the destination is with few known people, few partially known and mostly strangers. So importance of people is considerable as they are our journey mates. Hence conclusion I follows.

There is no information regarding conclusion II from the given statements. Hence conclusion II do not follow.

∴ Only conclusion I follows the given statements.

Hence, the correct answer is Option D

Question 13

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

Seed, Stem, leaf, ?

- A Plant
- B Tree

- C Fruit
- D Flower

Answer: D

Explanation:

The chronological order of a flower is :

= Seed -> Stem -> leaf -> Flower

=> Ans - (D)

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Question 14

B is older than C but not as old as D. E is not as old as B. Who is the oldest of all?

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

Answer: D

Explanation:

B is older than C but not as old as D, => $D > B > C$.

E is not as old as B, => $B > E$

Thus, combining above equations, we get : $D > B > E, C$

Thus, D is the oldest of all.

=> Ans - (D)

Question 15

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

- i. Stable
- ii. Stranger
- iii. Stability
- iv. Struggle

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

Answer: B

Explanation:

As per the order of dictionary :

= Stability -> Stable -> Stranger -> Struggle

≡ iii, i, ii, iv

=> Ans - (B)

Question 16

In a certain code language "TITANIC" is written as "7371835" and "SEMATIC" is written as "6241735". How will "MAINTAIN" be written in that code language?

- A 41387138
- B 43187138
- C 41837138
- D 41783138

Answer: A

Explanation:

The codes for each letter is given :

- M -> 4
- A -> 1
- I -> 3
- N -> 8
- T -> 7
- A -> 1
- I -> 3
- N -> 8

Thus, MAINTAIN : **41387138**

=> Ans - (A)

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Question 17

Find the missing number from given Table

6	5	4
7	6	5
5	7	6
37	23	?

- A 10
- B 12
- C 13
- D 14

Answer: D

Explanation:

In each column the pattern followed is :

Eg : $(6 \times 7) - 5 = 37$

and $(5 \times 6) - 7 = 23$

Similarly, $(4 \times 5) - 6 = 14$

=> Ans - (D)

Question 18

After interchanging + & x and 12 & 18, which of the following equations will hold true?

- A $(9 + 12) \times 18 = 60$
- B $(18 + 6) \times 12 = 90$
- C $(12 + 18) \times 12 = 72$
- D $(12 + 6) \times 18 = 36$

Answer: B

Explanation:

We need to interchange : + & x and 12 & 18

(A) : $(9 + 12) \times 18 = 60$

$\equiv (9 \times 18) + 12 = 60$

L.H.S. = $162 + 12 = 174 \neq$ R.H.S.

(B) : $(18 + 6) \times 12 = 90$

$\equiv (12 \times 6) + 18 = 90$

L.H.S. = $72 + 18 = 90 =$ R.H.S.

=> Ans - (B)

Question 19

In the following Explanation: Question , which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?

ab_bc_bb_abb_c

- A babcb
- B bbaaa
- C aabbc
- D abcbc

Answer: A

Explanation:

The pattern followed is that in groups of 5, the term 'abbbc' is repeated.

= abbbc abbbc abbbc

=> Ans - (A)

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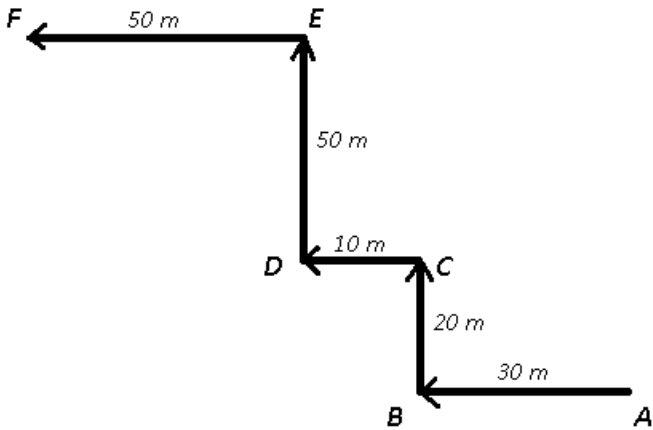
Question 20

I am facing north. I turn left and walk 30 m. Then I turn right and walk 20 m, then I turn left and walk 10 m and then turning right and walk 50 m. Then I turn left and walk 50 m. In which direction am I from the starting point?

- A North
- B South
- C North-west
- D North-east

Answer: C

Explanation:



If I am initially at point A and facing north and turn left, then I walk 30 m towards west. Then I turn right and walk 20 m northwards to reach C, then I turn left and walk 10 m west and then turning right from point D and walk 50 m. Finally, I turn left and walk westwards 50 m to stop at point F.

Thus, I am North-west from the starting point.

=> Ans - (C)

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, 'M' can be represented by 10, 03 etc. and 'H' can be represented by 55,78 etc. Similarly, you have to identify the set for the word 'MATHS'.

Matrix 1:

	0	1	2	3	4
0	T	S	N	M	E
1	M	T	S	N	E
2	S	E	M	T	N
3	N	M	E	S	T
4	E	N	T	S	M

Matrix 2:

	5	6	7	8	9
5	H	G	I	P	A
6	G	H	A	I	P
7	A	I	G	H	I
8	I	P	H	A	G
9	P	A	P	G	H

- A 03, 59, 11, 78, 43
- B 10, 67, 22, 55, 01
- C 22, 75, 00, 66, 21
- D 44, 88, 23, 98, 20

Answer: A

Explanation:

(A) : 03, 59, 11, 78, 43 = MATHS

(B) : 10, 67, 22, 55, 01 = MAMHS

(C) : 22, 75, 00, 66, 21 = MATSE

(D) : 44, 88, 23, 98, 20 = MATGS

=> Ans - (A)

Question 22

Raju introduces Yash by saying, "He is the husband of the granddaughter of my grandmother's husband". How is Yash related to Raju?

- A Nephew
- B Father
- C Brother
- D Brother-in-law

Answer: D

Explanation:

Raju's grandmother's husband = Raju's grandfather

Now, granddaughter of Raju's grandfather = Raju's sister

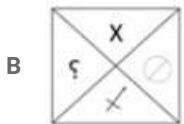
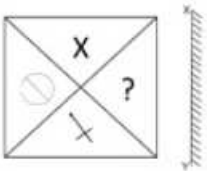
Also, Yash is the husband of Raju's sister, => Yash is Raju's brother-in-law

=> 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?



Answer: B

Explanation:

If a mirror is placed on the line MN,

Question mark on the right will be on the left in the mirror image

Circle on the left will be on the right in the mirror image

The facing of the symbols to the left and right direction changes to opposite direction in mirror image(right facing changes to left and vice versa)

The mirror images of symbols X, question mark, circle, arrow are shown in the below figure



Hence, the correct answer is Option B

Question 24

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

Kitchen, Utensils, Glass

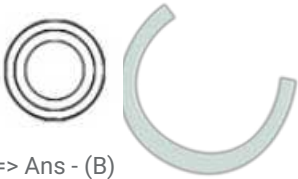


Answer: B

Explanation:

Glass is a type of utensil and utensils belong in the kitchen. Hence these three will be concentric.

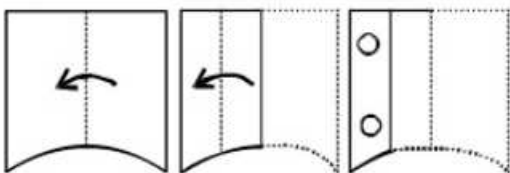
Thus, the venn diagram that best describes above relationship is :

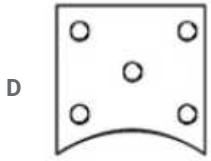
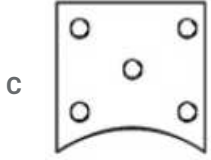
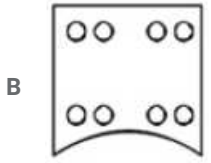
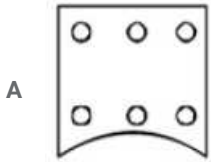


=> Ans - (B)

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.





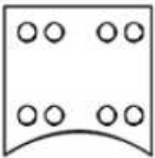
Answer: B

Explanation:

When the paper is unfolded first to the right, two circles will appear on the right part similarly.

When the paper is unfolded again to the right, two circles each will appear similarly on the two parts on the right of the paper.

∴ When the paper is unfolded 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

The largest estuarine mangrove forest in the world is at?

- A Sundarbans National Park
- B Nanda Devi and Valley of Flowers National Parks
- C Keoladeo National Park
- D Manas Wildlife Sanctuary

Answer: A

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Question 27

Amartya Sen won Nobel Prize for?

- A Literature
- B Physics
- C Peace
- D Economic Sciences

Answer: D

Question 28

The amount of blood filtered together by both the kidneys in a 70 kg adult male human in a minute is

- A 1100 ml
- B 100 ml
- C 1500 ml
- D 500 ml

Answer: A

Question 29

Which feature of a plant helps to distinguish a monocot from a dicot?

- A pollination
- B venation
- C veneration
- D aestivation

Answer: B

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Question 30

The Mutation Theory was proposed by _____.

- A Charles Lyell
- B William Smith
- C Hugo De Vries
- D Harrison Schmitt

Answer: C

Question 31

Which of the following elements has the lowest melting point?

- A Helium
- B Potassium
- C Tungsten
- D Sulphur

Answer: A

Question 32

Atomic number of which of the following elements is greater than that of Phosphorus?

- A Aluminium
- B Silicon
- C Chlorine
- D Magnesium

Answer: C

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Question 33

The designers of the Internet Protocol defined an IP address as a ____-bit number.

- A 8
- B 16
- C 32
- D 64

Answer: C

Question 34

Which of the following is a wind based Indian musical instrument?

- A Taus
- B Swarmandal
- C Samvadini
- D Rabab

Answer: C

Question 35

Calculate the economic profit for a firm if its total revenues are Rs 180 crores, explicit costs are Rs 95 crores, and implicit costs are Rs 25 crores.

- A Rs 110 crores

- B Rs 300 crores
- C Rs 60 crores
- D Rs 250 crores

Answer: C

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Question 36

Insure payment of minimum wages for tea leave pickers

- A will improve quality of tea.
- B will reduce unemployment of tea leave pickers.
- C decreases unemployment.
- D will increase picking cost for all tea companies.

Answer: D

Question 37

Which type of pathogen causes the water-borne disease Hepatitis-A?

- A Parasitic
- B Viral
- C Protozoan
- D Bacterial

Answer: B

Question 38

_____ is a natural electrical phenomenon characterized by the appearance of streamers of reddish or greenish light in the sky, especially near the northern or southern magnetic pole.

- A Acaulis
- B Alatus
- C Albopictus
- D Aurora

Answer: D

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Question 39

Sabrimala is a Hindu pilgrimage centre located in which Tiger Reserve area?

- A Bandipur

- B Kanha
- C Periyar
- D Panna

Answer: C

Question 40

Earth's crust mainly contains _____.

- A bauxite
- B manganese
- C silica
- D iron

Answer: C

Question 41

Seoul is the Capital City of _____.

- A United Arab Emirates
- B Netherlands
- C South Korea
- D Italy

Answer: C

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Question 42

Indus Valley Civilization was a _____ age civilization.

- A Silver
- B Tin
- C Gold
- D Bronze

Answer: D

Question 43

To whom did Akbar gave the title Mian?

- A Raja Todar Mal
- B Man Singh I
- C Birbal

D Tansen

Answer: D

Question 44

Who Invented Laser?

A William Friese-Greene

B Arthur Fry

C Gordon Gould

D Otto von Guericke

Answer: C

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Question 45

What is the SI unit of Torque?

A newton/meter

B newton meter

C newton second

D newton/meter squared

Answer: B

Question 46

What is the unit of the physical quantity, Illuminance?

A siemens

B tesla

C lux

D weber

Answer: C

Question 47

Article 21 of the Indian Constitution "Protection of life and personal liberty" deals with?

A the Union Government

B the fundamental rights of the Indian Citizen

C the State Government

D the directive principles of state policy

Answer: B

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Question 48

Article 211 of the Indian Constitution "Restriction on discussion in the Legislature" deals with?

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

Answer: D

Question 49

The colour of Australian cricket team's cap is

- A Green
- B Blue
- C Red
- D Yellow

Answer: A

Question 50

Who is the author of "The Secret Of The Nagas (Shiva Trilogy-b:"?

- A Amish Tripathi
- B Durjoy Datta
- C Keshav Aneel
- D Savi Sharma

Answer: A

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English

Instructions

For the following questions answer them individually

Question 51

Improve the bracketed part of the sentence.

Practically (every) part of the coconut tree is used by man.

- A each
- B all
- C most

D no improvement

Answer: A

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Question 52

Rearrange the parts of the sentence in correct order.

Imagine what this can do

P-the news industry in our part of the world

Q-for trust in, and engagement

R-with, professional journalism and

A RQP

B QRP

C PRQ

D PQR

Answer: B

Question 53

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'.

Tanish has(A)/changed a lot(B)/since then.(C)/No error(D)

A A

B B

C C

D D

Answer: D

Question 54

Select the synonym of
deviance

A accordance

B compliance

C alliance

D aberrance

Answer: D

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Question 55

Rearrange the parts of the sentence in correct order

Truth was

P-to lead to a breach of peace as a false one

Q-no defence since

R-a true defamatory statement was as likely

A QPR

B RQP

C PQR

D PRQ

Answer: A

Question 56

Improve the bracketed part of the sentence.

I gave her the book that I (won) as a prize.

A will win

B had won

C am winning

D no improvement

Answer: B

Question 57

Select the synonym of

alleviate

A irritate

B aggravate

C allay

D agitate

Answer: C

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Question 58

Select the word with the correct spelling.

A mixible

B dialects

C venerete

D pluing

Answer: B

Question 59

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

Unchecked industrial effluents discharging into the rivers has caused _____ damage to the environment.

- A uncontrollable
- B disproportionate
- C infinite
- D incalculable

Answer: D

Question 60

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 express my gratitudes(A)/to all those who(B)/have voted for me.(C)/No error(D)

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

Answer: A

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Question 61

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

I am sorry I am late, I was _____ up in traffic.

- A held
- B delayed
- C detained
- D stucked

Answer: A

Question 62

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

- A love someone blindly
- B euphemism for an Indian dress called sari

C a small area but sufficient

D everything possible

Answer: D

Question 63

Select the word with the correct spelling.

A erasable

B nuerones

C ignomminy

D trouncees

Answer: A

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Question 64

Select the antonym of
steadfast

A staunch

B pliant

C ardent

D rigid

Answer: B

Question 65

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase. Speak or write about in an abusively disparaging manner.

A crucify

B ignify

C vilify

D basify

Answer: C

Question 66

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

A changing moods like weather

B a situation changes so fast that it leaves one unprepared

C slightly unwell

D raining heavily

Answer: C

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Question 67

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.

'Don't you know the way to the station?' father said to Anjali.

- A Father asked Anjali if she did not knew the way to the station.
- B Father asked Anjali that if she did not knew the way to the station.
- C Father asked Anjali whether she did not know the way to the station.
- D Father asked to Anjali if she did not know the way to the station.

Answer: C

Question 68

Select the antonym of sibilate

- A whiz
- B boo
- C exalt
- D rasp

Answer: C

Question 69

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 manager must look into this problem.

- A This problem shall be looked into by the manager.
- B Into this problem must take a look the manager.
- C This problem must be looked into by the manager.
- D This problem could be looked at by the manager.

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. A feeling of unease or embarrassment; awkwardness.

- A slag

- B declivity
- C prolapse
- D discomfiture

Answer: D

Explanation:

Start Group:

Instructions

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

All this does not bode _____(1)_____ for even the loosest definitions of cosmopolitanism. A city by definition is a space, as _____(2)_____ historians and sociologists have already told us, which ideally privileges and _____(3)_____ the unexpected encounter, and calls on its citizens to be able to respond humanely even to those _____(4)_____ are not linked to us in familial, ethnic, nationalist or caste _____(5)_____.

Question 71

All this does not bode _____ for even the loosest definitions of cosmopolitanism.

- A well
- B nice
- C good
- D fine

Answer: A

Question 72

A city by definition is a space, as _____ historians and sociologists have already told us

- A infinite
- B innumerable
- C incalculable
- D multiple

Answer: C

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Question 73

which ideally privileges and _____ the unexpected encounter,

- A nurtured
- B nurturing
- C nurtures
- D nurture

Answer: C

Question 74

Respond humanely even to those _____ are not linked to us in familial

- A who
- B whom
- C whose
- D whoever

Answer: A

Question 75

Ethnic, nationalist or caste _____.

- A partnerships
- B alliances
- C clans
- D affiliations

Answer: D

Explanation:

End Group:

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Mathematics

Instructions

For the following questions answer them individually

Question 76

Coefficient of x^2 in $4x^3 - 2x^2 + 2x - 3$ are

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

Answer: B

Explanation:

A coefficient is a numerical or constant quantity placed before and multiplying the variable in an algebraic expression. Eg : In ax^2 , coefficient is a

Expression : $4x^3 - 2x^2 + 2x - 3$

=> Coefficient of $x^2 = -2$

=> Ans - (B)

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Question 77

If a merchant offers a discount of 40% on the list price, then he makes a loss of 10%. What % profit or % loss will he make if he sells at a discount of 20% of the list price?

- A 4 percent loss
- B 14 percent profit
- C 5.5 percent loss
- D 20 percent profit

Answer: D

Explanation:

Let list price = Rs. $100x$

After 40% discount, selling price = $\frac{100-40}{100} \times 100x = \text{Rs. } 60x$

Let Cost price = Rs. y

$$\Rightarrow \text{Loss \%} = \frac{y-60x}{y} \times 100 = 10$$

$$\Rightarrow \frac{y-60x}{y} = \frac{10}{100} = \frac{1}{10}$$

$$\Rightarrow 10y - 600x = y$$

$$\Rightarrow 10y - y = 600x$$

$$\Rightarrow y = \frac{600x}{9} = 66.67x$$

If discount = 20%, \Rightarrow Selling price = $\frac{100-20}{100} \times 100x = \text{Rs. } 80x$

$$\therefore \text{Profit \%} = \frac{80x-66.67x}{66.67x} \times 100$$

$$= 19.99 \approx 20\%$$

Question 78

The mean of marks secured by 60 students in division A of class X is 66, 45 students of division B is 62 and that of 75 students of division C is 60. Find the mean of marks of the students of three divisions of Class X.

- A 61.8
- B 62.5
- C 61.1
- D 63.9

Answer: B

Explanation:

Total marks secured by 60 students in division A = $60 \times 66 = 3960$

Total marks secured by 45 students in division B = $45 \times 62 = 2790$

Total marks secured by 75 students in division C = $75 \times 60 = 4500$

$$\Rightarrow \text{Mean of marks of the students of three divisions of Class X} = \frac{(3960+2790+4500)}{(60+45+75)}$$

$$= \frac{11250}{180} = 62.5$$

=> Ans - (B)

Question 79

On dividing $221a^2b^2$ by $13b^2$, we get _____.

- A $17a^2$
- B $17b^2$
- C $13a^2b^2$
- D 13

Answer: A

Explanation:

Expression : $\frac{221a^2b^2}{13b^2}$

$= \frac{221}{13} \times \frac{a^2b^2}{b^2}$

$= 17a^2$

=> Ans - (A)

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Question 80

$40.36 - (9.347 - x) - 29.02 = 3.68$. Find x.

- A -56.353
- B 1.687
- C -17.007
- D 82.407

Answer: B

Explanation:

Expression : $40.36 - (9.347 - x) - 29.02 = 3.68$

=> $40.36 - 9.347 + x = 3.68 + 29.02$

=> $31.013 + x = 32.7$

=> $x = 32.7 - 31.013$

=> $x = 1.687$

=> Ans - (B)

Question 81

If $x + 3 \leq 4x + 4$ and $5(4 - x) - 4 \geq 5x - 2$; then the value of x can be

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

Answer: C

Explanation:

Expression 1 : $x + 3 \leq 4x + 4$

$$\Rightarrow 4x - x \geq 3 - 4 \Rightarrow 3x \geq -1$$

$$\Rightarrow x \geq \frac{-1}{3} \text{ -----(i)}$$

Expression 2 : $5(4 - x) - 4 \geq 5x - 2$

$$\Rightarrow 20 - 5x - 4 \geq 5x - 2$$

$$\Rightarrow 10x \leq 18 \Rightarrow 5x \leq 9$$

$$\Rightarrow x \leq \frac{9}{5} \text{ -----(ii)}$$

Combining inequalities (i) and (ii), we get : $\frac{-1}{3} \leq x \leq \frac{9}{5}$

The possible value of $x = 0, 1$

\Rightarrow Ans - (C)

Question 82

A missile travels at 1116 km/h. How many metres does it travel in one second?

- A 360 metres
- B 368 metres
- C 310 metres
- D 348 metres

Answer: C

Explanation:

Speed of missile = 1116 km/hr

$$\Rightarrow \text{Speed in m/s} = 1116 \times \frac{5}{18}$$

$$= 5 \times 62 = 310 \text{ m/s}$$

\therefore In 1 second, it travels 310 metres

\Rightarrow Ans - (C)

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Question 83

If the radius of a circle is increased by 31% its area increases by ____.

- A 62 percent
- B 31 percent
- C 35.805 percent
- D 71.61 percent

Answer: D

Explanation:

Let radius = 10 cm

$$\Rightarrow \text{Area of circle} = \pi(10)^2 = 100\pi \text{ sq. cm}$$

If radius is increased by 31%, \Rightarrow New radius = $10 + \frac{31}{100} \times 10 = 13.1$ cm

New area = $\pi(13.1)^2 = 171.61\pi$ sq. cm

\Rightarrow % increase in area = $\frac{171.61-100}{100} \times 100$

= 71.61 %

\Rightarrow Ans - (D)

Question 84

A bank offers 20% compound interest per half year. A customer deposits Rs 6000 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 7680

B Rs 3840

C Rs 1860

D Rs 960

Answer: B

Explanation:

Principal = Rs. 6,000 and Rate = 20%

Amount for first half year = $6000 \times \frac{120}{100} = Rs.7200$

Principal for next half year = Rs.7200+Rs.6000 = Rs.13200.

Amount for next half year = $13200 \times \frac{120}{100} = Rs.15840$

Interest received in whole year = 15840 - 12000 = Rs.3840.

Question 85

The third proportional of two numbers 4 and 28 is _____.

A 52

B 56

C 84

D 196

Answer: D

Explanation:

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

Here, a = 4 and b = 28

$\Rightarrow (28)^2 = 4 \times c$

$\Rightarrow c = \frac{28 \times 28}{4} = 7 \times 28$

$\Rightarrow c = 196$

\Rightarrow Ans - (D)

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Question 86

Mummy can bake 75 cakes in 15 hours, Mummy and Sister together can bake 120 cakes in 20 hours. How many cakes Sister can bake in 30 hours?

- A 45
- B 30
- C 60
- D 10

Answer: B

Explanation:

Cakes baked by Mummy in 1 hour = $\frac{75}{15} = 5$

Cakes baked by Mummy and Sister together in 1 hour = $\frac{120}{20} = 6$

=> Cakes baked by Sister in 1 hour = $6 - 5 = 1$

∴ Cakes baked by Sister in 30 hours = $30 \times 1 = 30$

=> Ans - (B)

Question 87

Between 200 and 400 how many numbers are divisible by 7?

- A 28
- B 29
- C 30
- D 31

Answer: B

Explanation:

Numbers which are divisible by 7 between 200 and 400 are : 203,210,217,.....,399

These numbers form an arithmetic progression with first term, $a = 203$ and last term, $l = 399$

Common difference, $d = 7$

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

=> $399 = 203 + (n - 1) \times 7$

=> $(n - 1) = \frac{(399-203)}{7} = \frac{196}{7} = 28$

=> $n = 28 + 1 = 29$

=> Ans - (B)

Question 88

The point P(a,b) is first reflected in origin to P1 and P1 is reflected in y-axis to (6,-5). The co-ordinates of point P are

- A (-6,-5)
- B (6,5)
- C (-6,5)
- D (6,-5)

Answer: B

Explanation:

$P(a,b)$ after reflection at the origin = $(-a,-b)$

Reflection of point $(-a,-b)$ in the y-axis is $(a,-b)$

According to ques,

$$\Rightarrow (a, -b) = (6, -5)$$

$$\Rightarrow a = 6 \text{ and } -b = -5$$

\therefore Coordinates of Point P = $(6,5)$

\Rightarrow Ans - (B)

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Question 89

A rice trader buys 20 quintals of rice for Rs 8,580. However, 22% rice is lost in transportation. At what rate should he sell to earn 20% profit?

A Rs 278.8 per quintal

B Rs 514.8 per quintal

C Rs 660 per quintal

D Rs 654.2 per quintal

Answer: C

Explanation:

Cost price = Rs. 8580 for 20 quintals

$$\text{Quantity of rice with the trader after transportation lost} = \frac{100-22}{100} \times 20$$

$$= \frac{78}{100} \times 20 = 15.6 \text{ quintals}$$

$$\text{To have 20\% profit, total selling price of the trader should be} = \frac{120}{100} \times 8580$$

$$= \text{Rs. } 10,296$$

$$\therefore \text{Selling price per quintal} = \frac{10296}{15.6} = \text{Rs. } 660$$

\Rightarrow Ans - (C)

Question 90

What is the equation of the line which has $3/2$ and $-4/7$ as x and y intercept respectively?

A $8x - 21y = -12$

B $8x + 21y = 14$

C $8x - 21y = 12$

D $8x + 21y = -14$

Answer: C

Explanation:

A line with x-intercept $3/2$ will intercept x-axis at $(\frac{3}{2}, 0)$

A line with y-intercept $-4/7$ will intercept y-axis at $(0, \frac{-4}{7})$

$$\Rightarrow \text{Slope, } m = \frac{-4}{7} \div \frac{-3}{2} = \frac{8}{21}$$

Equation of line passing through points (x_1, y_1) and slope $m = (y - y_1) = m(x - x_1)$

$$\Rightarrow \text{Equation of line} = (y - 0) = \frac{8}{21}(x - \frac{3}{2})$$

$$\Rightarrow 21y = 8x - 12$$

$$\Rightarrow 8x - 21y = 12$$

\Rightarrow Ans - (C)

Question 91

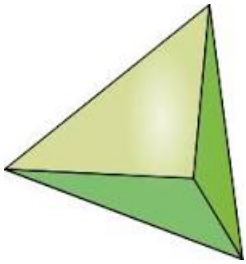
A tetrahedron has 4 vertices. How many edges does it have?

- A 8
- B 12
- C 6
- D 10

Answer: C

Explanation:

Tetrahedron :



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

Tetrahedron has 4 vertices and 4 faces.

$$\Rightarrow E = V + F - 2 = 4 + 4 - 2$$

$$\Rightarrow E = 8 - 2 = 6$$

\Rightarrow Ans - (C)

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Question 92

The circumference of a circle is equal to the perimeter of an equilateral Δ . If the radius of the circle is 14 cm what is the length of the side of the equilateral Δ ?

- A 88 cm
- B $88/3$ cm
- C $88/\sqrt{3}$ cm
- D $88\sqrt{3}$ cm

Answer: B

Explanation:

Let the side of equilateral triangle = x cm and radius = 14 cm

Perimeter of equilateral triangle = Circumference of circle

$$\Rightarrow 3 \times x = 2\pi r$$

$$\Rightarrow 3x = 2 \times \frac{22}{7} \times 14$$

$$\Rightarrow 3x = 44 \times 2 = 88$$

$$\Rightarrow x = \frac{88}{3} \text{ cm}$$

\Rightarrow Ans - (B)

Question 93

If the curved surface area of a right circular cone is 10010 sq cm and its radius is 35 cm, find its volume?

- A 6930 cubic cm
- B 107800 cubic cm
- C 3465 cubic cm
- D 27720 cubic cm

Answer: B

Explanation:

Let slant height of cone = l cm and radius = 35 cm

Curved surface area of cone = $\pi r l = 10010$

$$\Rightarrow \frac{22}{7} \times 35 \times l = 10010$$

$$\Rightarrow 22 \times 5 \times l = 10010$$

$$\Rightarrow l = \frac{10010}{110} = 91$$

Let height of cone = h cm

$$\Rightarrow (h)^2 = (l)^2 - (r)^2$$

$$\Rightarrow (h)^2 = (91)^2 - (35)^2$$

$$\Rightarrow (h)^2 = 8281 - 1225 = 7056$$

$$\Rightarrow h = \sqrt{7056} = 84$$

$$\therefore \text{Volume of cone} = \frac{1}{3} \times \pi r^2 h$$

$$= \frac{1}{3} \times \frac{22}{7} \times (35)^2 \times 84$$

$$= 22 \times (35)^2 \times 4 = 107800 \text{ cm}^3$$

Question 94

What is the value of cosec $5\pi/3$?

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

Answer: B

Explanation:

Expression : cosec $5\pi/3$

$$= \operatorname{cosec}\left(2\pi - \frac{\pi}{3}\right)$$

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

=> Ans - (B)

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Question 95

$\sin(A+B) - \sin(A-B)$ is equal to

- A $2\sin A \cos B$
- B $2\cos A \cos B$
- C $2\cos A \sin B$
- D $2\sin A \sin B$

Answer: C

Explanation:

Expression : $\sin(A+B) - \sin(A-B)$

$$= (\sin A \cos B + \cos A \sin B) - (\sin A \cos B - \cos A \sin B)$$

$$= \cos A \sin B + \cos A \sin B = 2\cos A \sin B$$

=> Ans - (C)

Question 96

$2 - (\cos A + \sin A)^2$ is equal to

- A $(\operatorname{cosec} A - \sin A)^2$
- B $\cos A - \sin A$
- C $\operatorname{cosec} A - \sin A$
- D $(\cos A - \sin A)^2$

Answer: D

Explanation:

Expression : $2 - (\cos A + \sin A)^2$

$$= 2 - (\cos^2 A + \sin^2 A + 2\sin A \cos A)$$

Using, $(\cos^2 A + \sin^2 A = 1)$ -----(i)

$$= 2 - (1 + 2\sin A \cos A)$$

$$= 1 - 2\sin A \cos A$$

Again using equation (i), we get :

$$= \cos^2 A + \sin^2 A - 2\sin A \cos A$$

$$= (\cos A - \sin A)^2$$

=> Ans - (D)

Question 97

Refer the table and answer the given questions

	Quantity of Stock	Average Cost
Mobiles	25	15000
Camera	80	16000
TVs	54	55000
Refrigerators	41	27000
Acs	64	24000

What is the total value of the stock in lakhs ?

- A 726.8
- B 137
- C 72.68
- D 264

Answer: C

Explanation:

Total cost of mobiles = $25 \times 15000 = \text{Rs. } 3,75,000$

Total cost of Cameras = $80 \times 16000 = \text{Rs. } 12,80,000$

Total cost of TVs = $54 \times 55000 = \text{Rs. } 29,70,000$

Total cost of Refrigerator = $41 \times 27000 = \text{Rs. } 11,07,000$

Total cost of AC = $64 \times 24000 = \text{Rs. } 15,36,000$

\therefore Total cost = $3,75,000 + 12,80,000 + 29,70,000 + 11,07,000 + 15,36,000 = \text{Rs. } 72,68,000$

Total cost in lakhs = Rs 72.68 lakhs

SSC CHSL Study Material

Question 98

Read the data and answer the given questions

Years	Ratio Import/Export
2011	0.8
2012	0.9
2013	1
2014	1.5
2015	1.3

If the imports in 2012 was Rs. 700 crores and the total exports in the years 2012 and 2013 together was Rs. 4000 crores, then the imports in 2013 was?

- A 3888
- B 3222
- C 778
- D 2500

Answer: B

Explanation:

Let exports in 2012 = Rs. x crores

Imports in 2012 = Rs. 700 crores

Ratio of imports and exports in 2012 = $\frac{700}{x} = 0.9$

$$\Rightarrow x = \frac{700}{0.9} \approx 778$$

Total exports In the years 2012 and 2013 together = Rs. 4000 crores

\Rightarrow Exports in 2013 = Rs. (4000 - 778) crores = Rs. 3222 crores

Ratio of imports and exports in 2013 = 1

\Rightarrow Imports in 2013 = Exports in 2013 = Rs. 3222 crores

\Rightarrow Ans - (D)

Question 99

Read the table and answer the given questions

Measured On Birthday	Hieght of Children in CMs
4	100
5	110
6	115
7	125
8	130
9	135
10	140
11	145
12	150
13	155
14	160
15	170
16	175

What is the increase in the height of child from 7th birthday to 16th birthday ?

- A 55 cms
- B 60 cms
- C 45 cms
- D 50 cms

Answer: D

Explanation:

Height on 7th birthday = 125 cm

Height on 16th birthday = 175 cm

Increase in height = 175 - 125 = 50 cm

\Rightarrow Ans - (D)

Question 100

Read the data and answer the Questions

Deep Sleep	5
Dreaming	30
Light Sleep	5
Exreamly Sleep	20
Awake	40

Between 10pm to 6am, a fitness band records the following data. How long was the user in Deep Sleep or was Awake?

- A 3.6 hours
- B 3.1 hours
- C 2.1 hours
- D 4.1 hours

Answer: A

Explanation:

Total time between 10 pm to 6 am = 8 hours

% time spent on deep sleep and on awake = $5 + 40 = 45\%$

=> Time spent on deep sleep or on awake = $\frac{45}{100} \times 8$

= $\frac{18}{5} = 3.6$ hours

=> Ans - (A)

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