



SSC CHSL 30 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.

Haemoglobin : Blood :: Chlorophyll : ?

- A Leaf
- B Animal
- C Human
- D Oxygen

Answer: A

Explanation:

Haemoglobin is found in blood, similarly Chlorophyll is found in *leaves*.

=> Ans - (A)

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Question 2

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

MP : PN :: QR : ?

- A PT
- B TP
- C LM
- D NR

Answer: B

Explanation:

Expression = MP : PN :: QR : ?

The pattern followed is :

M	P
(+3)	(-2)
P	N

Similarly, QR : TP

Q	R
(+3)	(-2)
T	P

=> Ans - (B)

Question 3

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

ST : ZM :: KR : ?

- A KR

B RK

C LR

D LK

Answer: B

Explanation:

Expression = ST : ZM :: KR : ?

The pattern followed is :

S	T
(+7)	(-7)
Z	M

Similarly, KR : RK

K	R
(+7)	(-7)
R	K

=> Ans - (B)

Question 4

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

3 : 27 :: 4 : ?

A 96

B 64

C 44

D 48

Answer: B

Explanation:

Expression = 3 : 27 :: 4 : ?

The pattern followed is = $x : x^3$

Eg :- $3 : 3^3 = 3 : 27$

Similarly, $4^3 = 64$

=> Ans - (B)

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Question 5

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

A Curd

B Oil

C Cheese

D Butter

Answer: B

Explanation:

Curd, cheese and butter are made from milk, hence oil is the odd one out.

=> Ans - (B)

Question 6

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

A LA

B PR

C OC

D US

Answer: B

Explanation:

All the words except PR contain one vowel, hence PR is the odd one out.

=> Ans - (B)

Question 7

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

A 8

B 64

C 125

D 343

Answer: B

Explanation:

$$8 = 2^3$$

$$64 = 4^3 = 8^2$$

$$125 = 5^3$$

$$343 = 7^3$$

Thus, 64 is the only number which is both a perfect cube and square.

=> Ans - (B)

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Question 8

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

A 844

B 972

C 716

D 345

Answer: D

Explanation:

The pattern followed is that the difference between the first two digits is equal to the third digit, but $3 - 4 \neq 5$, hence 345 is the odd one out.

=> Ans - (D)

Question 9

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series. ? , Lal Bahadur Shastri, Indira Gandhi, Morarji Desai, Choudhary Charan Singh

- A Jawahar Lal Nehru
- B Rajiv Gandhi
- C Manmohan Singh
- D V. P. Singh

Answer: A

Explanation:

The given list is of India's Prime Ministers in chronological order.

= Jawahar Lal Nehru -> Lal Bahadur Shastri -> Indira Gandhi -> Morarji Desai -> Choudhary Charan Singh

=> Ans - (A)

Question 10

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series. VW, XU, ZS, BQ, ?

- A OD
- B DO
- C EO
- D FO

Answer: B

Explanation:

Expression : VW, XU, ZS, BQ, ?

The pattern followed in each letters of the terms is :

1st letter : V (+2 letters) = X (+2 letters) = Z (+2 letters) = B (+2 letters) = D

2nd letter : W (-2 letters) = U (-2 letters) = S (-2 letters) = Q (-2 letters) = O

Thus, missing term = **DO**

=> Ans - (B)

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Question 11

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series. AN, DQ, GT, JW, ?

- A MA
- B NZ

C MZ

D LY

Answer: C

Explanation:

Expression : AN, DQ, GT, JW, ?

The pattern followed in each letters of the terms is :

1st letter : A (+3 letters) = D (+3 letters) = G (+3 letters) = J (+3 letters) = M

2nd letter : N (+3 letters) = Q (+3 letters) = T (+3 letters) = W (+3 letters) = Z

Thus, missing term = **MZ**

=> Ans - (C)

Question 12

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
76, 101, 151, 226, ?

A 351

B 426

C 326

D 301

Answer: C

Explanation:

Multiples of 25 are added.

$76 + 25 = 101$

$101 + 50 = 151$

$151 + 75 = 226$

$226 + 100 = \mathbf{326}$

=> Ans - (C)

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) The pass percentage in a subject Political Science is very low as compared to others in the same curriculum.

(II) The students who were admitted to the programme did not study Political Science earlier.

Conclusions:

(I) The foundation of the subject is very important for a student to perform well in examination.

(II) Political Science is a generic subject and students can attempt it without any problem.

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:

The given statement indicate that the pass percentage in Political Science is very low as compared to others. Also, the students did not study it earlier. Clearly, second conclusion does not follow as it is not mentioned whether Pol Science is easy or not. But we can conclude that the foundation of the subject is very important for a student to perform well in examination.

Thus, only conclusion I follows.

=> Ans - (D)

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Question 14

The first of April is a Wednesday. What day of the week will it be on the first of May of the same year?

- A Saturday
- B Friday
- C Sunday
- D Monday

Answer: B

Explanation:

According to the question, 1st April is Wednesday

Odd days from 1st April till 1st May = $(30) \% 7 = 2$

Thus, day on 1st May = Wednesday (+2) = Friday

=> Ans - (B)

Question 15

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

- i. Treasure
- ii. Treadmill
- iii. Training
- iv. Translate

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

Answer: D

Explanation:

As per the order of dictionary :

= Training -> Translate -> Treadmill -> Treasure

≡ iii, iv, ii, i

=> Ans - (D)

Question 16

In a certain code language, "VERBAL" is written as "KZAQDU". How is "CURIOUS" written in that code language?

- A RTHNQTB

B BTQHNTR

C RTNHQTB

D RTNHQTA

Answer: C

Explanation:

"VERBAL" is written as "KZAQDU"

The pattern followed is that the word is written in reverse order, then the preceding letters are written to form the code.

L	A	B	R	E	V
(-1)	(-1)	(-1)	(-1)	(-1)	(-1)
K	Z	A	Q	D	U

Similarly, CURIOUS is written as SUOIRUC

S	U	O	I	R	U	C
(-1)	(-1)	(-1)	(-1)	(-1)	(-1)	(-1)
R	T	N	H	Q	T	B

=> Ans - (C)

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Question 17

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

?	12	9
36	108	72
9	9	8

A 0

B 4

C 2

D 6

Answer: B

Explanation:

The pattern followed is that in each column, the number at the middle is obtained by multiplying the other two.

$$\text{Eg :- } 12 \times 9 = 108$$

$$9 \times 8 = 72$$

$$\text{Similarly, } 9 \times x = 36$$

$$\Rightarrow x = \frac{36}{9} = 4$$

=> Ans - (B)

Question 18

If "A" means "plus", "B" means "divide", "C" means "multiply" and "D" means "minus", then
180 B 36 C 5 A 8 D 32 = ?

A 0

B 3

C 1

D 2

Answer: C

Explanation:

Expression : $180 \div 36 \times 5 + 8 - 32 = ?$

$$\equiv 180 \div 36 \times 5 + 8 - 32$$

$$= (5 \times 5) - 24$$

$$= 25 - 24 = 1$$

=> Ans - (C)

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?

KK_LL_K_L_LL

A LKML

B LKKK

C LLKL

D LKKL

Answer: C

Explanation:

The pattern followed is that the terms 'KK' and 'LLLL' are repeated alternatively.

= KK LLLL KK LLLL

=> Ans - (C)

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Question 20

Rahul's school is in the north-east direction from his house. In which direction, is his house from his school?

A North-west

B South-west

C South-east

D West

Answer: B

Explanation:

Rahul's school is in the north-east direction from his house.

Thus, opposite of north-east is south-west

Thus, his house is **South-west** from his school

=> 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, 'F' can be represented by 32, 42, etc., and 'M' can be represented by 88, 68, etc. Similarly, you have to identify the set for the word 'SURE'.

Matrix - I

	0	1	2	3	4
0	U	N	U	H	E
1	U	A	N	L	I
2	E	G	A	N	E
3	E	L	F	A	U
4	L	G	F	N	E

Matrix - II

	5	6	7	8	9
5	I	S	B	R	O
6	R	I	T	M	S
7	R	S	G	R	O
8	T	S	G	M	R
9	S	T	G	M	O

A 76, 00, 77, 24

B 56, 10, 89, 30

C 86, 34, 65, 85

D 69, 02, 75, 66

Answer: B

Explanation:

(A) : 76, 00, 77, 24 = SUGE

(B) : 56, 10, 89, 30 = **SURE**

(C) : 86, 34, 65, 85 = SURT

(D) : 69, 02, 75, 66 = SURI

=> Ans - (B)

Question 22

A boy says to a girl, "Your father's wife is the only daughter of my maternal grandmother." How is the boy related to the girl?

A Brother

B Sister

C Son

D Cousin

Answer: A

Explanation:

Only daughter of the boy's maternal grandmother = Boy's mother

Now, boy's mother is girl's father's wife, => boy and girl are siblings.

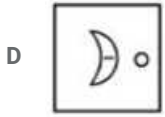
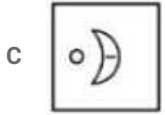
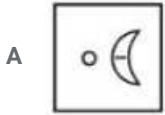
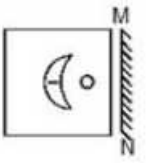
=> The boy is her brother.

=> Ans - (A)

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Question 23

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



Answer: C

Explanation:

If the mirror is placed on the line MN,

The small circle which is in the right will be in the left in the mirror image.

The curved surface which is open towards right will be open towards left in the mirror image

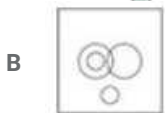
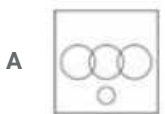
It is shown in the below figure

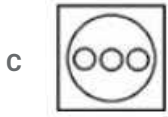


Hence, the correct answer is Option C

Question 24

Identify the diagram that best represents the relationship among the given classes. Earth, Crust, Mantle, Core





Answer: C

Explanation:

Crust, Mantle and core are all three layers of the earth, but are different from each other hence do not intersect.

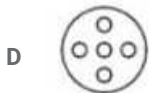
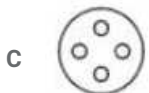
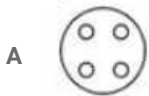
Thus, the venn diagram that best describes above relationship is :



=> Ans - (C)

Question 25

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



Answer: A

Explanation:

When the paper is unfolded first, two circles will appear at the bottom side of the paper.

When the paper is unfolded again, two circles will appear similarly at the top side 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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Instructions

For the following questions answer them individually

Question 26

Panch Mahal is situated in?

- A Hawa Mahal
- B Gwalior Fort
- C Fatehpur Sikri
- D Agra Fort

Answer: C

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Question 27

Kedarnath Singh won Jnanpith Award for work in which language?

- A Gujarati
- B Marathi
- C Hindi
- D Telugu

Answer: C

Question 28

To which class does Oxyreductases, transferases, hydrolases belong?

- A Hormones
- B Enzymes
- C Proteins
- D Vitamins

Answer: B

Question 29

Which of the following is not true about Gymnosperms?

- A Dominant phase is saprophytes
- B Vascular bundles are absent
- C spores are heterospores
- D Flowers are absent

Answer: B

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Question 30

The name of first mammal clone sheep is

- A Noori
- B Dolly
- C Louise
- D Durga

Answer: B

Question 31

What is dehydration?

- A Removal of acid from a molecule
- B Removal of base from a molecule
- C Removal of water from a molecule
- D Removal of alkali from a molecule

Answer: C

Question 32

.....character of a bond between two atoms is greater if the difference in their electro negativities is lesser.

- A Polar
- B Metallic
- C Ionic
- D Covalent

Answer: D

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Question 33

.....allows searching for information and computing derived information.

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

Answer: C

Question 34

Garadi is a folk dance of.....

- A Mizoram
- B Puducherry
- C Gujarat
- D Rajasthan

Answer: B

Question 35

If price of an article decreases from Rs 80 to Rs 60, quantity demanded increases from 600 units to 750 units. Find point elasticity of demand?

- A -1
- B 1
- C -1.25
- D 1.25

Answer: A

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Question 36

Which of the following measures will not increase a nation's wealth?

- A investing in new companies
- B increasing efficiency of factories
- C converting grasslands into orchards
- D By redistributing taxes as subsidies

Answer: D

Question 37

Which type of pathogen causes the water-borne disease Typhoid fever?

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

Answer: D

Question 38

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

- A B₂H₆

- B Ne
- C C6H14
- D O3

Answer: D

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Question 39

Squadron Leader is one of the ranks of the Indian

- A Army
- B Navy
- C Air Force
- D Paramilitary Force

Answer: C

Question 40

Which is called country of canals?

- A India
- B Pakistan
- C Japan
- D Myanmar

Answer: B

Question 41

Male is the Capital of

- A Algeria
- B Maldives
- C Kenya
- D Mauritius

Answer: B

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Question 42

Mahabalipuram was founded by

- A Rajaraja Chola
- B Narasimha Varman

C Chandragupta Maurya

D Vivasvan

Answer: B

Question 43

Chhatrapati Shivaji Maharaj (1674-1680 AD) was the ruler of which dynasty?

A Nanda

B Haryanka

C Maurya

D Maratha

Answer: D

Question 44

Who Invented airbag?

A Wright brothers

B Reynold B. Johnson

C Assen Jordanoff

D Ken Kutaragi

Answer: C

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Question 45

Why boiling point of water decreases at high altitudes?

A Because of high temperature

B Because of low atmospheric pressure

C Because of low temperature

D Because of high atmospheric pressure

Answer: B

Question 46

What is the unit of the physical quantity, Momentum?

A newton second

B joule second

C erg second

D pascal second

Answer: A

Question 47

Communist Party of India was founded in

- A 1835
- B 1885
- C 1925
- D 1964

Answer: C

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Question 48

Article 39A of the Indian Constitution "Equal justice and free legal aid" deals with?

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

Answer: B

Question 49

Who among the following has scored 2 triple hundreds in test matches?

- A Ricky Ponting
- B Jacques Kallis
- C Sachin Tendulkar
- D Brian Lara

Answer: D

Question 50

Who is the author of "Swami and Friends"?

- A Sudeep Nagarkar
- B Devdutt Pattanaik
- C R. K. Narayan
- D Aravind Adiga

Answer: C

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English

Instructions

For the following questions answer them individually

Question 51

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase. To place or deal with close together for contrasting effect.

- A to scrutiny
- B to juxtapose
- C to correlate
- D to contrast

Answer: B

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Question 52

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.

After the votes were counted, the familywas for a Hawaiian vacation.

- A together
- B idea
- C unity
- D consensus

Answer: D

Question 53

Improve the bracketed part of the sentence.

My mother opened the parcel without (worrying) to read the address on it.

- A doubting
- B bothering
- C fearing
- D no improvement

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. to cut to the chase

- A to chase your dreams

- B to explain a very long story in brief
- C to remove all negative thoughts from one's mind
- D to come to the point

Answer: D

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Question 55

Improve the bracketed part of the sentence. She could not cope (by) the heavy workload.

- A with
- B of
- C up
- D no improvement

Answer: A

Question 56

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 teacher will give you instructions.

- A Instructions would be given to you by the teacher.
- B Instructions will have been given to you by the teacher.
- C Instructions will be given to you by the teacher.
- D Instructions were given to you by the teacher.

Answer: A

Question 57

Rearrange the parts of the sentence in correct order.

The architecture

P-was designed to promote

Q-of the Internet

R-connectivity, not security

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

Answer: A

Question 58

Rearrange the parts of the sentence in correct order.

It secured support from
P-government, a significant development in itself
Q-other sections of the
R-Opposition, and defeated the

- A RQP
- B QRP
- C PRQ
- D PQR

Answer: B

Question 59

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

- A a person who constantly keeps asking questions is avoided by everybody
- B everybody has a fatal weakness
- C being inquisitive about other people's affairs may get you into trouble
- D everyone feels like killing a nagging person

Answer: C

Question 60

Select the synonym of famished

- A glut
- B jaded
- C satiated
- D starved

Answer: D

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Question 61

Select the word with the correct spelling

- A humbeling
- B wardrobe
- C delicat
- D gazeles

Answer: B

Question 62

Select the antonym of mandate

A injunction

B behest

C breach

D decree

Answer: C

Question 63

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'.

Not only we seen(A)/the Tali temple but(B)/also the Thirunelli temple.(C)/No error(D)

A A

B B

C C

D D

Answer: A

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Question 64

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

The unique selling proposition of(A)/our products are that(B)/they are unbreakable.(C)/No error(D)

A A

B B

C C

D D

Answer: B

Question 65

Select the antonym of arcane

A mystic

B recondite

C esoteric

D hackneyed

Answer: D

Question 66

Select the synonym of thrashing

- A edifice
- B prefabrication
- C bashing
- D contour

Answer: C

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Question 67

Select the word with the correct spelling

- A guttered
- B melower
- C cystetis
- D mutered

Answer: A

Question 68

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.

My parents willmy car if I get another speeding ticket.

- A capture
- B grab
- C confiscate
- D mob

Answer: C

Question 69

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

A long narrow ditch embanked with its own soil and used for concealment and protection in warfare

- A trench
- B gully
- C furrow
- D moat

Answer: A

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Question 70

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.

Vicky said, "Please say nothing about this."

- A Vicky asked her to not to say anything about this.
- B Vicky asked her that she should not to say anything about that.
- C Vicky asked her to say nothing about that.
- D Vicky asked her that she say nothing about that.

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.

The way criminal justice is designed and administered todayserves any of the purposes for which it is set up: towards securing life and property. It does notcriminals because of the delay and uncertainties involved in its processes and ridiculously ineffective punishments it imposes

.....those few who get convicted. It provides wide discretion to the police and the prosecution,the system vulnerable to corruption and manipulation and endangering basicof innocent citizens.

todayserves any of the purposes for which it is set up: towards securing life and property.

Question 71

todayserves any of the purposes for which it is set up: towards securing life and property.

- A little
- B only
- C hardly
- D scantily

Answer: C

Question 72

It does notcriminals because of the delay and uncertainties involved in its processes

- A deter
- B divert
- C ban
- D prohibit

Answer: A

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Question 73

it imposesthose few who get convicted.

- A of
- B onto
- C over
- D on

Answer: D

Question 74

.....the system vulnerable to corruption and manipulation

- A to render
- B rendering
- C rendered
- D render

Answer: B

Question 75

and endangering basicof innocent citizens.

- A powers
- B facilities
- C duties
- D rights

Answer: D

Explanation:

End Group:

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Mathematics

Instructions

For the following questions answer them individually

Question 76

(91 + 92 + 93 + +110) is equal to

- A 4020
- B 2010
- C 6030

D 8040

Answer: B

Explanation:

Expression : $(91 + 92 + 93 + \dots + 110)$

This is an arithmetic progression with first term, $a = 91$, last term, $l = 110$ and common difference, $d = 1$

Let number of terms = n

Last term in an A.P. = $a + (n - 1)d = 110$

$$\Rightarrow 91 + (n - 1)(1) = 110$$

$$\Rightarrow n - 1 = 110 - 91 = 19$$

$$\Rightarrow n = 19 + 1 = 20$$

$$\therefore \text{Sum of A.P.} = \frac{n}{2}(a + l)$$

$$= \frac{20}{2}(91 + 110)$$

$$= 10 \times 201 = 2010$$

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Question 77

The value of x for which the expressions $15x + 4$ and $13x - 2$ become equal is

A -1

B 1

C -3

D 3

Answer: C

Explanation:

Expressions : $15x + 4$ and $13x - 2$

$$\Rightarrow 15x + 4 = 13x - 2$$

$$\Rightarrow 15x - 13x = -2 - 4$$

$$\Rightarrow 2x = -6$$

$$\Rightarrow x = \frac{-6}{2} = -3$$

\Rightarrow Ans - (C)

Question 78

A car travels a certain distance at 70 km/h and comes back at 30 km/h. Find the average speed for total journey.

A 42 km/hr

B 50 km/hr

C 34 km/hr

D 58 km/hr

Answer: A

Explanation:

Average speed of the journey is the harmonic mean of the speeds 70 and 30 km/hr

Harmonic mean of two numbers 'x' and 'y' = $\frac{2}{\frac{1}{x} + \frac{1}{y}}$

$$\text{Average speed} = \frac{2}{\frac{1}{70} + \frac{1}{30}}$$

$$= 2 \div \frac{30+70}{30 \times 70} = \frac{2 \times 30 \times 70}{100}$$

$$= 2 \times 3 \times 7 = 42 \text{ km/hr}$$

=> Ans - (A)

Question 79

The price of an article is cut by 42%, to restore to its original value, the new price must be increased by

- A 42 percent
- B 72.41 percent
- C 29.58 percent
- D 52.5 percent

Answer: B

Explanation:

Let the original price of the article = Rs. 100

If the price is cut by 42%, => New price = $\frac{100-42}{100} \times 100 = \text{Rs.}58$

To restore to its original value the new price must be increased by = $\frac{100-58}{58} \times 100$

$$= \frac{4200}{58} \approx 72.41\%$$

=> Ans - (B)

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Question 80

The difference between simple and compound interests compounded annually on a certain sum of money for 2 years at 4% per annum is Rs 8. The sum is.....

- A Rs 10000
- B Rs 20000
- C Rs 5000
- D Rs 15000

Answer: C

Explanation:

Let the given sum = Rs. $100x$

Rate of interest = 4% and time period = 2 years

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

$$= 100x[(1 + \frac{4}{100})^2 - 1]$$

$$= 100x[(\frac{26}{25})^2 - 1] = 100x(\frac{676-625}{625})$$

$$= 100x \times \frac{51}{625} = \frac{204x}{25}$$

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

$$= \frac{100x \times 4 \times 2}{100} = 8x$$

$$\Rightarrow \text{Difference between simple and compound interests} = \frac{204x}{25} - 8x = 8$$

$$\Rightarrow \frac{204x - 200x}{25} = 8$$

$$\Rightarrow 4x = 8 \times 25$$

$$\Rightarrow x = \frac{8 \times 25}{4} = 2 \times 25 = 50$$

$$\therefore \text{Value of given sum} = 100 \times 50 = \text{Rs. } 5,000$$

Question 81

If $(x + y):(x - y) = 11:1$, find value of $(5x + 3y)/(x - 2y)$.

A $45/4$

B $4/45$

C $-45/4$

D $-4/45$

Answer: C

Explanation:

$$\text{Given: } \frac{x+y}{x-y} = \frac{11}{1}$$

$$\Rightarrow x + y = 11x - 11y$$

$$\Rightarrow y + 11y = 11x - x \Rightarrow 12y = 10x$$

$$\Rightarrow y = \frac{5x}{6}$$

$$\text{To find: } \frac{5x+3y}{x-2y}$$

$$= \left[5x + 3\left(\frac{5x}{6}\right) \right] \div \left[x - 2\left(\frac{5x}{6}\right) \right]$$

$$= \left(5x + \frac{5x}{2} \right) \div \left(x - \frac{5x}{3} \right)$$

$$= \left(\frac{15x}{2} \right) \div \left(\frac{-2x}{3} \right)$$

$$= \frac{15x}{2} \times \frac{-3}{2x} = \frac{-45}{4}$$

\Rightarrow Ans - (C)

Question 82

A rice trader buys 16 quintals of rice for Rs 5632. 20% rice is lost in transportation. At what rate should he sell to earn 25% profit?

A Rs 225.2 per quintal

B Rs 550 per quintal

C Rs 440 per quintal

D Rs 563.2 per quintal

Answer: B

Explanation:

Cost price = Rs. 5632 for 16 quintals

Quantity of rice left with the trader after transportation lost = $\frac{100-20}{100} \times 16$
 $= \frac{4}{5} \times 16 = 12.8$ quintals

To have 25% profit, total selling price of the trader should be = $\frac{125}{100} \times 5632$
 $= 5 \times 1408 = \text{Rs. } 7040$

\therefore Selling price per quintal = $\frac{7040}{12.8} = \text{Rs. } 550$

=> Ans - (B)

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Question 83

If $2 + 4x < 5 - \frac{x}{2}$ and $3x + 3 > -5 - 3x$; then x can take which of the following values?

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

Answer: D

Explanation:

Expression 1 : $2 + 4x < 5 - \frac{x}{2}$

=> $4x + \frac{x}{2} < 5 - 2$

=> $\frac{9x}{2} < 3$

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

Expression 2 : $3x + 3 > -5 - 3x$

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

=> $x > \frac{-4}{3}$ -----(ii)

Combining inequalities (i) and (ii), we get : $\frac{-4}{3} < x < \frac{2}{3}$

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

=> Ans - (D)

Question 84

The ten's digit of a 2-digit number is greater than the units digit by 7. If we subtract 63 from the number, the new number obtained is a number formed by interchange of the digits. Find the number.

- A 81
- B 70
- C 92
- D Cannot be determined

Answer: D

Explanation:

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

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

$$\text{According to ques, } \Rightarrow x - y = 7 \text{ -----(i)}$$

$$\text{According to question, } \Rightarrow 10x + y - 63 = 10y + x$$

$$\Rightarrow 9x - 9y = 63$$

$$\Rightarrow x - y = \frac{63}{9} = 7 \text{ -----(ii)}$$

Equations (i) and (ii) are same and thus we have two variables and one equation

Number can be = 92, 81 and thus the solution cannot be determined.

\Rightarrow Ans - (D)

Question 85

$\triangle DEF$ is similar to $\triangle GHI$. Length of DE is 9 cm and length of the corresponding side GH is 16 cm. What is the ratio of areas of $\triangle DEF$: $\triangle GHI$?

A 3:4

B 9:16

C 81:256

D 16:9

Answer: C

Explanation:

It is given that $\triangle DEF \sim \triangle GHI$

Also, length of $DE = 9$ cm and length of the corresponding side $GH = 16$ cm

$$\Rightarrow \text{Ratio of Area of } \triangle DEF : \text{Area of } \triangle GHI = \text{Ratio of square of corresponding sides} = (DE)^2 : (GH)^2$$

$$= \frac{(9)^2}{(16)^2} = \frac{81}{256}$$

\therefore The required ratio is 81 : 256

\Rightarrow Ans - (C)

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Question 86

A carpenter can build a cupboard in 48 hours. After 12 hours he takes a break. What fraction of the cupboard is yet to be built?

A 0.4

B 0.5

C 0.75

D 0.25

Answer: C

Explanation:

Time taken to build the cupboard = 48 hours

Time spent = 12 hours

$$\Rightarrow \text{Fraction of the cupboard yet to be built} = \frac{(48-12)}{48} = \frac{36}{48}$$

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

=> Ans - (C)

Question 87

The average revenues of 7 consecutive years of a company is Rs 83 lakhs. If the average of first 4 years is Rs 78 lakhs and that of last 4 years is Rs 90 lakhs, find the revenue for the 4th year.

- A Rs 91 lakhs
- B Rs 93 lakhs
- C Rs 89 lakhs
- D Rs 87 lakhs

Answer: A

Explanation:

Total revenues of 7 years of the company = $83 \times 7 = \text{Rs. } 581$ lakhs

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

Total revenue of last 4 years = $90 \times 4 = \text{Rs. } 360$ lakhs

\therefore Revenue of 4th year = $(312 + 360) - 581 = 672 - 581$

= Rs. 91 lakhs

=> Ans - (A)

Question 88

The slope of the line passing through the points (7,-2) and (x,1) is -3/10. Find x.

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

Answer: D

Explanation:

Slope of line passing through (x_1, y_1) and (x_2, y_2) is $\frac{y_2 - y_1}{x_2 - x_1}$

=> Slope of the line passing through the points (7,-2) and (x,1)

$$= \frac{-2 - 1}{x - 7} = \frac{-3}{x - 7}$$

$$\Rightarrow \frac{-3}{x - 7} = \frac{-3}{10}$$

$$\Rightarrow x - 7 = -10$$

$$\Rightarrow x = -10 + 7 = -3$$

=> Ans - (D)

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Question 89

10% discount is offered on an item. By applying a promo code the customer wins 5% cash back. What is the effective discount?

- A 15.225 percent

- B 14.5 percent
- C 15 percent
- D 5.5 percent

Answer: B

Explanation:

Let the marked price of item = Rs. $100x$

$$\begin{aligned} \text{Amount after 10 \% discount} &= 100x - \frac{10}{100} \times 100x \\ &= 100x - 10x = \text{Rs. } 90x \end{aligned}$$

$$\begin{aligned} \text{Selling price after 5 \% cashback} &= 90x - \frac{5}{100} \times 90x \\ &= 90x - 4.5x = \text{Rs. } 85.5x \end{aligned}$$

$$\Rightarrow \text{Total discounted amount} = 100x - 85.5x = \text{Rs. } 14.5x$$

$$\therefore \text{Effective discount} = \frac{14.5x}{100x} \times 100 = 14.5\%$$

Question 90

Find the sum of the measures all the interior angles of a polygon having 12 sides.

- A 1800°
- B 2520°
- C 2880°
- D 3240°

Answer: A

Explanation:

Sum of all interior angles of a polygon having n sides = $(n - 2) \times 180^\circ$

Number of sides of polygon, $n = 12$

$$\Rightarrow \text{Sum of interior angles} = (12 - 2) \times 180^\circ$$

$$= 10 \times 180 = 1800^\circ$$

\Rightarrow Ans - (A)

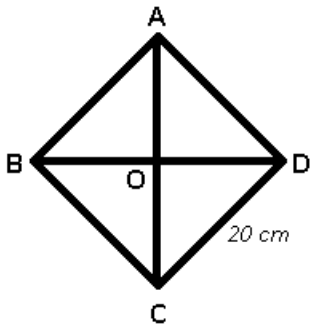
Question 91

One diagonal of a rhombus is half the other. If the length of the side of the rhombus is 20 cm, what is the area of the rhombus?

- A 320 sq cm
- B 160 sq cm
- C 240 sq cm
- D 360 sq cm

Answer: A

Explanation:



AC and BD are diagonals of the rhombus ABCD with side = 20 cm

One diagonal of a rhombus is half the other, let AC = $4x$ cm

\Rightarrow BD = $2x$ cm

Diagonal of a rhombus perpendicularly bisect each other.

\Rightarrow OD = x cm and OC = $2x$ cm

In $\triangle OCD$, $\Rightarrow (OC)^2 + (OD)^2 = (CD)^2$

$\Rightarrow (2x)^2 + (x)^2 = (20)^2$

$\Rightarrow 4x^2 + x^2 = 400$

$\Rightarrow x^2 = \frac{400}{5} = 80$

\therefore Area of rhombus = $\frac{1}{2} \times$ Product of diagonals

= $\frac{1}{2} \times 4x \times 2x$

= $4x^2 = 4 \times 80 = 320\text{cm}^2$

\Rightarrow Ans - (A)

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Question 92

The curved surface area of a hemisphere is 27.72 sq cm, find its radius?

A 4.2 cm

B 2.1 cm

C 0.7 cm

D 1.05 cm

Answer: B

Explanation:

Let radius of hemisphere = r cm

Curved surface area of hemisphere = $2\pi r^2 = 27.72$

$\Rightarrow r^2 = \frac{27.72}{2\pi}$

$\Rightarrow r^2 = 13.86 \times \frac{7}{22}$

$\Rightarrow r^2 = 0.63 \times 7 = 4.41$

$\Rightarrow r = \sqrt{4.41} = 2.1$ cm

\Rightarrow Ans - (B)

Question 93

If $6A = 11B = 7C$; find $A : B : C$

- A 66:42:77
- B 77:42:66
- C 42:77:66
- D 7:11:6

Answer: B

Explanation:

Let $6A = 11B = 7C = k$

$$\Rightarrow A = \frac{k}{6}, B = \frac{k}{11}, C = \frac{k}{7}$$

$$\Rightarrow \text{Ratio of } A : B : C = \frac{k}{6} : \frac{k}{11} : \frac{k}{7}$$

$$= \frac{1}{6} : \frac{1}{11} : \frac{1}{7}$$

L.C.M. of 6,11 and 7 = 462, thus multiplying by 462, we get :

$$= \frac{462}{6} : \frac{462}{11} : \frac{462}{7}$$

$$= 77 : 42 : 66$$

\Rightarrow Ans - (B)

Question 94

If $\cos -4\pi/3 = x$, then the value of x is

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

Answer: D

Explanation:

Expression : $\cos -4\pi/3$

$$\because \cos(-x) = \cos x$$

$$= \cos\left(\frac{4\pi}{3}\right)$$

$$= \cos\left(\pi + \frac{\pi}{3}\right) = -\cos\left(\frac{\pi}{3}\right)$$

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

\Rightarrow Ans - (D)

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Question 95

If $(\cot A \cot B - 1) / (\cot B + \cot A) = x$, then the value of x is

- A $\cot(A - B)$

B $\tan(A + B)$

C $\cot(A + B)$

D $\tan(A - B)$

Answer: C

Explanation:

Expression : $(\cot A \cot B - 1) / (\cot B + \cot A) = x$

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

$$= \left(\frac{\cos A \cos B - \sin A \sin B}{\sin A \sin B} \right) \div \left(\frac{\sin A \cos B + \cos A \sin B}{\sin A \sin B} \right)$$

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

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

$$= \frac{\cos(A+B)}{\sin(A+B)} = \cot(A + B)$$

=> Ans - (C)

Question 96

If $2\operatorname{cosec}^2 A = x$, then the value of x is

A $1/(1 - \operatorname{cosec} A) - 1/(1 + \operatorname{cosec} A)$

B $1/(1 + \sin A) + 1/(1 - \tan A)$

C $1/(1 + \cos A) + 1/(1 - \cos A)$

D $1/(1 - \tan A) - 1/(1 + \sin A)$

Answer: C

Explanation:

Expression : $2\operatorname{cosec}^2 A = x$

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

Adding and Subtracting ($\cos A$) in the numerator

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

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

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

$$= \frac{1}{1-\cos A} + \frac{1}{1+\cos A}$$

=> Ans - (C)

Question 97

Refer the below data table and answer the following question

Division STD	Boys	Girls
Division A Standard 5	40	10
Division B Standard 5	35	25
Division C Standard 5	15	10
Division A Standard 6	35	35
Division B Standard 6	40	30
Division C Standard 6	20	20

What is the ratio of boys to girls ?

- A 26 : 37
- B 39 : 28
- C 28 : 39
- D 37 : 26

Answer: D

Explanation:

Total number of boys = $40 + 35 + 15 + 35 + 40 + 20 = 185$

Total number of girls = $10 + 25 + 10 + 35 + 30 + 20 = 130$

=> Required ratio = $\frac{185}{130}$

= 37 : 26

=> Ans - (D)

SSC CHSL Study Material

Question 98

Refer the below data table and answer the following question

Marks	No of Students
40 and above	25
30 and above	44
20 and above	61
10 and above	88
0 and above	105

How many students have scored marks 20 or more but less than 40?

- A 44
- B 61
- C 36
- D 105

Answer: C

Explanation:

Number of students who scored :

40 and above = 25

30 and above = $44 - 25 = 19$

20 and above = $61 - 44 = 17$

10 and above = $88 - 61 = 27$

0 and above = $105 - 88 = 17$

=> Students who have scored marks 20 or more but less than 40 = $17 + 19 = 36$

=> Ans - (C)

Question 99

Refer the below data table and answer the following question

Year	GDP Growth rate for the year (in %)
2011	-7
2012	-5
2013	7
2014	4
2015	-4

In the GDP of the country was \$3 trillion at the end of 2013, what was the beginning of 2015?

- A \$3.21 trillion
- B \$2.88 trillion
- C \$3.12 trillion
- D \$3 trillion

Answer: C

Explanation:

GDP at the beginning of 2015 is equal to the GDP at the end of 2014

=> GDP growth rate in 2014 = 4%

GDP at the end of 2013 = GDP at the beginning of 2014 = \$3 trillion

$$\therefore \text{GDP at the beginning of 2015} = \frac{104}{100} \times 3 \text{ trillion}$$

= \$3.12 trillion

=> Ans - (C)

Question 100

Refer the below data table and answer the following question

Subject	Marks scored
English	30
Hindi	65
Math	80
Science	75
Arts	70

Five points are to be deducted from this students average of marks scored because of poor attendance. What will be this student's net average marks scored?

- A 49
- B 54
- C 59
- D 64

Answer: C

Explanation:

Total marks scored by the student = 30 + 65 + 80 + 75 + 70 = 320

$$\Rightarrow \text{Average marks} = \frac{320}{5} = 64$$

But due to poor attendance, 5 marks are deducted

∴ Net average = $64 - 5 = 59$

⇒ Ans - (C)

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