



SSC CHSL 21 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.

Democracy : India :: Communism : ?

- A France
- B China
- C Britain
- D America

Answer: B

Explanation:

India is a democratic country, similarly among the given options, *China* is a communist country.

=> Ans - (B)

SSC CHSL Free Mock Test

Question 2

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

? : DDY :: BIG : CLL

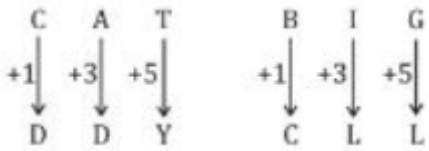
- A TAK
- B CAT
- C TAC
- D TEF

Answer: B

Explanation:

Expression = ? : DDY :: BIG : CLL

The pattern followed is :



Thus, **CAT** : DDY

=> Ans - (B)

Question 3

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

? : LLH :: RMS : SLU

A NMK

B KMF

C MKF

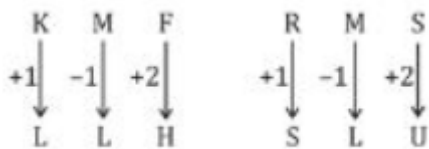
D MMF

Answer: B

Explanation:

Expression = ? : LLH :: RMS : SLU

The pattern followed is :



Thus, **KMF** : LLH

=> Ans - (B)

Question 4

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

11 : 1210 :: 10 : ?

A 910

B 980

C 1000

D 970

Answer: C

Explanation:

Expression = $11 : 1210 :: 10 : ?$

The pattern followed is = $x : 10(x^2)$

Eg :- $11 : 10(11^2) = 11 : 1210$

Similarly, $10 \times (10^2) = 10 \times 100 = 1000$

=> Ans - (C)

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Question 5

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

- A Cap
- B Turban
- C Trouser
- D Hat

Answer: C

Explanation:

Cap, turban and hat are worn on the head, hence trouser is the odd one out.

=> Ans - (C)

Question 6

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

- A DAH
- B IFM
- C ROV
- D FHA

Answer: D

Explanation:

(A) : D (-3 letters) = A (+7 letters) = H

(B) : I (-3 letters) = F (+7 letters) = M

(C) : R (-3 letters) = O (+7 letters) = V

(D) : F (+2 letters) = H (-7 letters) = A

=> Ans - (D)

Question 7

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

A 12

B 24

C 80

D 48

Answer: C

Explanation:

Except 80, other three are divisible by 3, hence it is the odd one out.

=> Ans - (C)

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Question 8

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

A 125

B 144

C 256

D 361

Answer: A

Explanation:

$$125 = 5^3$$

$$144 = 12^2$$

$$256 = 16^2$$

$$361 = 19^2$$

=> Ans - (A)

Question 9

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

?, James Garfield, William McKinley, John F. Kennedy

- A Franklin Roosevelt
- B George W. Bush
- C Abraham Lincoln
- D Bill Clinton

Answer: C

Explanation:

Successive order of American Presidents is given.

= Abraham Lincoln -> James Garfield -> William McKinley -> John F. Kennedy

=> 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.

AK, CO, ES, ?

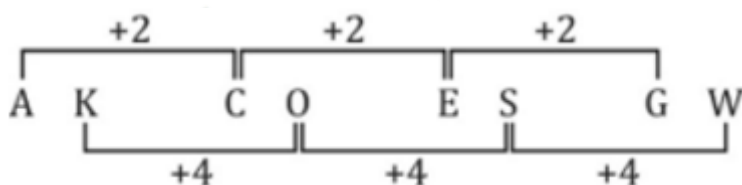
- A NO
- B FH
- C GW
- D GV

Answer: C

Explanation:

Expression : AK, CO, ES, ?

The pattern followed is :



Thus, missing term = GW

=> Ans - (C)

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Question 11

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

CDE, HIJ, MNO, ?

A KNM

B TRS

C QRS

D RST

Answer: D

Explanation:

Expression : CDE, HIJ, MNO, ?

The pattern followed is :

C D E H I J M N O R S T
 └───┬───┘ └───┬───┘ └───┬───┘
 +3 +3 +3

Thus, missing term = RST

=> Ans - (D)

Question 12

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

3, 6, 11, 20, ?

A 42

B 41

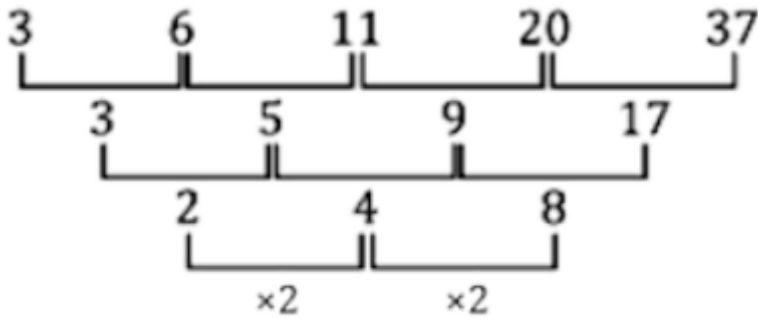
C 37

D 47

Answer: C

Explanation:

The pattern followed is :



Thus, missing number = 37

=> 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.

Statements:

- (I) All dogs are bullocks.
- (II) All bullocks are goats.

Conclusion:

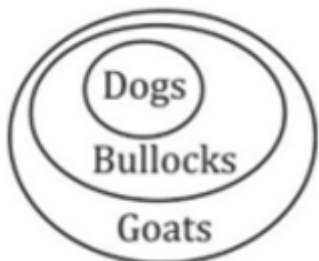
- (I) All dogs are goats.
- (II) All goats are dogs.

- A Conclusion I follows
- B Conclusion II follows
- C Neither I nor II follows
- D Both I and II follows

Answer: A

Explanation:

The venn diagram for above statements is :



Conclusion:

- (I) All dogs are goats = true
- (II) All goats are dogs = false

Thus, only conclusion I follows

=> Ans - (A)

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Question 14

Sumit wants to get his clothes washed. The laundry service charges in his city are such that for the first kg of clothes, he is charged Rs.150 and after that, he is charged Rs.50 for every kg that follows. If he gets 10kg of clothes washed, how much money does he pay for the laundry service ?

- A Rs 250
- B Rs 450
- C Rs 650
- D Rs 600

Answer: D

Explanation:

Charge for 1st kg of clothes = Rs. 150 and for rest = Rs. 50/kg

Quantity of clothes washed= 10 kg

=> Amount paid by Sumit = $(1 \times 150) + (9 \times 50)$

= $150 + 450 = Rs. 600$

=> Ans - (D)

Question 15

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

- i. Latitude
- ii. Longitude
- iii. Laugh
- iv. Latent

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

Answer: C

Explanation:

As per the order of dictionary :

= Latent -> Latitude -> Laugh -> Longitude

≡ iv, i, iii, ii

=> Ans - (C)

Question 16

In a certain code language, "SIGHT" is written as "@?*^!" and "ANT" is written as "#&!". How is "NIGHT" written in that code language?

A &?*^!

B &?*!^

C &*?^!

D ?&*^!

Answer: A

Explanation:

The codes for each letter is given :

N -> &

I -> ?

G -> *

H -> ^

T -> !

Thus, NIGHT : &?*^!

=> Ans - (A)

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Question 17

Find the missing number in the given table as per series

B	J	I
E	K	B
G	U	?

A O

B M

C K

D P

Answer: C

Explanation:

The pattern followed is that the alphabets are numbered alphabetically, A=1, B=2, C=3 and so on and then the last alphabet in each column is obtained by :

$$B=2 \text{ and } E=5, \Rightarrow 2 + 5 = 7 \equiv G$$

$$J=10 \text{ and } K=11, \Rightarrow 10 + 11 = 21 \equiv U$$

$$\text{Similarly, } I=9 \text{ and } B=2, \Rightarrow 9 + 2 = 11 \equiv K$$

\Rightarrow Ans - (C)

Question 18

If "A" means "subtraction", "B" means "division", "C" means "addition" and "D" means "multiplication", then
 $294 \text{ B } 7 \text{ A } 40 \text{ C } 33 \text{ D } 11 = ?$

A 369

B 365

C 368

D 363

Answer: B

Explanation:

Expression : $294 \text{ B } 7 \text{ A } 40 \text{ C } 33 \text{ D } 11 = ?$

$$\equiv 294 \div 7 - 40 + 33 \times 11$$

$$= \left(\frac{294}{7}\right) + (-40) + (33 \times 11)$$

$$= 42 - 40 + 363 = 365$$

\Rightarrow Ans - (B)

Question 19

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

X_ZX_YY_ZX_Z

A XXYY

B YXZY

C YYXY

D XXXY

Answer: B

Explanation:

The pattern followed is that the terms 'xyz' and 'xyyzz' are alternatively repeated.

= XYZ XXYYZZ XYZ

=> Ans - (B)

SSC CGL Free Mock Test (Latest Pattern)

Question 20

A girl is standing facing towards the east. She turns 45 degree in the anticlockwise direction and then turns 180 degree in the clockwise direction. Which direction is she facing now?

A West

B South

C North

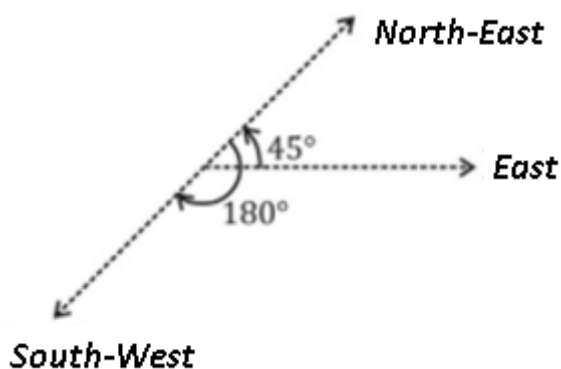
D South-West

Answer: D

Explanation:

A girl is standing facing towards the east. She turns 45 degree in the anticlockwise direction, => she is facing north-east.

Then she turns 180 degree in the clockwise direction :



Thus, she is facing south-west direction.

=> Ans - (D)

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, A can be represented by 01, 30, etc., and M can be represented by 56, 59, etc. Similarly, you have to identify the set for the word CARGO.

Matrix 1

	0	1	2	3	4
0	R	A	R	Y	A
1	A	C	G	Q	H
2	U	G	L	C	P
3	A	V	A	P	C
4	R	A	C	G	O

Matrix 2

	5	6	7	8	9
5	C	M	R	G	M
6	A	R	C	O	U
7	R	G	A	C	A
8	C	X	C	A	Y
9	O	G	Y	S	L

- A 78, 10, 57, 21, 95
- B 55, 31, 75, 12, 68
- C 42, 65, 02, 98, 44
- D 34, 88, 40, 76, 86

Answer: A

Explanation:

(A) : 78, 10, 57, 21, 95 = **CARGO**

(B) : 55, 31, 75, 12, 68 = CVRGO

(C) : 42, 65, 02, 98, 44 = CARSO

(D) : 34, 88, 40, 76, 86 = CARGX

=> Ans - (A)

Question 22

Introducing a man, Amar says, "His wife is the only daughter of my maternal grandfather". How is the man related to Amar?

- A Father
- B Grandfather
- C Son
- D Grandson

Answer: A

Explanation:

Only daughter of Amar's maternal grandfather = Amar's mother

Now, the man is Amar's mother's husband, => Amar is his son.

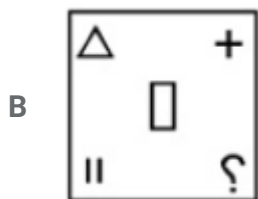
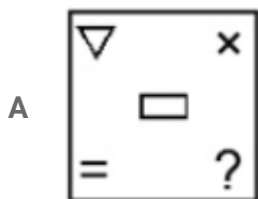
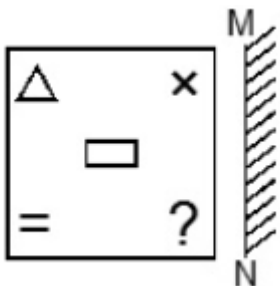
Thus, the man is Amar's father.

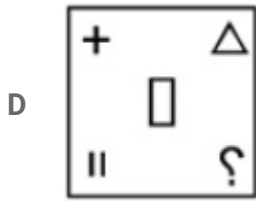
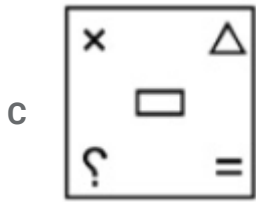
=> Ans - (A)

SSC Stenographer Previous Papers (Latest Pattern)

Question 23

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



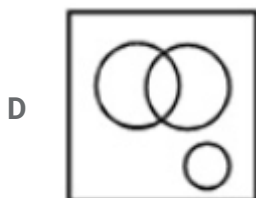
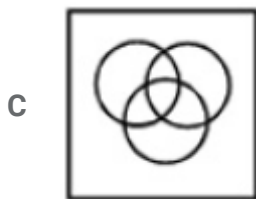
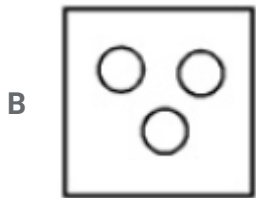
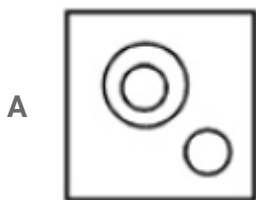


Answer: A

Question 24

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

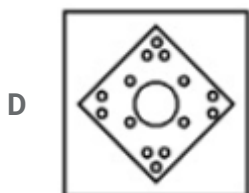
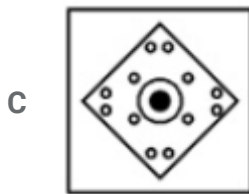
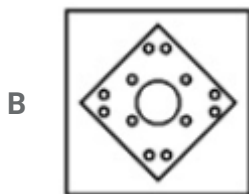
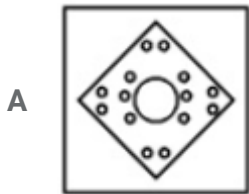
Omnivores, Bear, Dear



Answer: A

Question 25

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



Answer: A

SSC GD Constable Free Mock Test (Latest Pattern)

General Awareness

Instructions

For the following questions answer them individually

Question 26

_____ caves are a network of sculpted caves located in Mumbai Harbour.

- A Ajanta
- B Ellora
- C Elephanta
- D Badami

Answer: C

SSC MTS Free Mock Test (Latest Pattern)

Question 27

National Film Awards has been administered since ____.

- A 1973
- B 1980
- C 1987
- D 1994

Answer: A

Question 28

In which form is glucose stored in our body?

- A Insulin
- B Glucose
- C Glycogen
- D Fat

Answer: C

Question 29

Where do plants synthesize protein from?

- A Fatty Acids
- B Sugar

C Amino Acids

D Starch

Answer: C

SSC CPO Free Mock Test (Latest Pattern)

Question 30

Which part of the brain is responsible for triggering actions like thinking, intelligence, memory and ability to learn?

A Diencephalon

B Hypothalamus

C Cerebrum

D Control

Answer: C

Question 31

Which of the following elements has the lowest melting point?

A Sodium

B Tin

C Radon

D Radium

Answer: C

Question 32

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

A Sodium

B Beryllium

C Nitrogen

D Boron

Answer: A

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Question 33

Convert decimal number 106 to binary.

- A 1101000
- B 1101010
- C 1100110
- D 1110000

Answer: B

Question 34

Bihu is a folk dance of which state?

- A Assam
- B Maharashtra
- C Odisha
- D Uttarakhand

Answer: A

Question 35

A manufacturer faces a -1.2 price elasticity of demand for its product. It is presently selling 7,500 units/day. If it wants to increase quantity sold by 9%, it must lower its price by

- A 7.5 percent
- B 7.8 percent
- C 10.2 percent
- D 10 percent

Answer: A

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Question 36

Government borrowing to finance budget deficits ____.

- A will exert downward pressure on interest rates
- B will have no effect on interest rates
- C will increase supply of loanable funds
- D will put upward pressure on interest rates

Answer: D

Question 37

Which organ is also known as the Biochemical Laboratory of the Human Body?

- A Small Intestine
- B Brain
- C Pancreas
- D Liver

Answer: D

Question 38

Bandhavgarh National Park is in which state?

- A Rajasthan
- B Chhattisgarh
- C Uttar Pradesh
- D Madhya Pradesh

Answer: D

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Question 39

How many steps are there in Suryanamaskar?

- A 24
- B 12
- C 6
- D 3

Answer: B

Question 40

Who proposed Continental drift theory?

- A Alfred Wegener
- B Alfred Worwick
- C Alfred Hanks
- D Alfred Mane

Answer: A

Question 41

What is the capital of Canada?

- A Wellington
- B Canberra
- C Oslo
- D Ottawa

Answer: D

SSC CHSL Syllabus

Question 42

The Renaissance is a period in Europe, from the _____.

- A 18th to the 20th century
- B 14th to the 17th century
- C 11th to the 13th century
- D 7th to the 10th century

Answer: B

Question 43

Aurangzeb (1658-1707 AD) was the ruler of which dynasty?

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

Answer: B

Question 44

Who invented the contact lens?

- A Enrico Fermi
- B Adolf Gaston Eugen Fick
- C Sandford Fleming
- D Benoit Fourneyron

Answer: B

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Question 45

Electrons move around the nucleus in _____ motion.

- A translatory
- B spin

- C orbital
- D vibrational

Answer: C

Question 46

Blood pressure is measured by _____.

- A Barometer
- B Sphygmomanometer
- C Hydrometer
- D Thermometer

Answer: B

Question 47

First Leader of opposition in Lokshabha was _____.

- A B. R. Ambedkar
- B A. K. Gopalan
- C S Radhakrishnan
- D Vallabhbhai Patel

Answer: B

SSC CHSL Study Material

Question 48

The number of parliamentary seats (Rajya Sabha) of West Bengal is

- A 12
- B 16
- C 18
- D 31

Answer: B

Question 49

_____ recommended change in the structure and working of BCCI.

- A Lodha committee
- B Parekh committee
- C Sena committee
- D Akhil committee

Answer: A

Question 50

Who wrote the book "Five Point Someone: What Not to Do at IIT"?

- A Jhumpa Lahiri
- B Amish Tripathi
- C Kiran Bedi
- D Chetan Bhagat

Answer: D

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English

Instructions

For the following questions answer them individually

Question 51

Improve the bracketed part of the sentence

Grandfather always (finds faults) with the poor gardener.

- A find fault
- B find faults
- C is finding faults
- D no improvement

Answer: D

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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.

During a depression even the affluent middle class struggles to _____ out a living.

A make

B eke

C pull

D stretch

Answer: B

Question 53

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

to cause a process or action to begin

A to initiate

B to impel

C to imitate

D to conscript

Answer: A

Question 54

Improve the bracketed part of the sentence.

(As) you find me absent, please leave the parcel with my colleague.

A Would

B Could

C Should

D no improvement

Answer: C

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Question 55

Select the antonym of
to dawdle

A to loiter

B to mosey

C to hasten

D to saunter

Answer: C

Question 56

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.

Dia said to Pari, "Do you like oranges?"

A Dia asked Pari that did she like oranges.

B Dia asked Pari if she likes oranges.

C Dia asked Pari that whether she liked oranges.

D Dia asked Pari if she liked oranges.

Answer: D

Question 57

Rearrange the parts of the sentence in correct order

It is becoming

P-increasingly clear that anyone

Q-of freedom, justice and equality is seen as a threat

R-who dares to raise issues

A RPQ

B QRP

C PRQ

D QPR

Answer: C

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Question 58

Select the word with the correct spelling.

A wanquish

B banterred

C brouhaha

D wanderrer

Answer: C

Question 59

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

To jump ship

A Climbing the career ladder

B To jump to grab an opportunity

C To leave an organization

D To renounce great wealth

Answer: C

Question 60

Select the antonym of

fuddle

A upset

B explicate

C nonplus

D rattle

Answer: B

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Question 61

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

To kick the bucket

A to get angry

B to die

C to fall ill

D to get hurt

Answer: B

Question 62

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.

We must take care of the old.

A Those who are old need to be taken care of by us.

B The old must be taken care of by us.

C Those who are old need care by us.

D The old should be taken care of by us.

Answer: B

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'.

I asked two persons(A)/the way to the school(B)but neither of them knew it.(C)/No error(D)

A A

B B

C C

D D

Answer: D

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Question 64

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

a rich source of something

A antecedent

B lode

C node

D provenience

Answer: B

Question 65

Select the word with the correct spelling.

A envelop

B banditry

C dorsaly

D agarager

Answer: B

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.

While mother mixed the cake _____, Dipu stood at the table watching her.

- A batter
- B concoction
- C recipe
- D mixture

Answer: A

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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'.

We had to return because(A)/when we reached the railway(B)/station the train left.(C)/No error(D)

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

Answer: C

Question 68

Select the synonym of
murmur

- A fuzzy
- B muffled
- C buzz
- D taciturn

Answer: C

Question 69

Rearrange the parts of the sentence in correct order

Further negotiations

P-are necessary

Q-to reach a common understanding

R-to enable implementation

A QRP

B RPQ

C PRQ

D PQR

Answer: D

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Question 70

Select the synonym of peripatetic

A confine

B spire

C ultimate

D nomadic

Answer: D

Instructions

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

All of us have admired some writers, _____ their work over that of others for their writing style as much as for the content of their work. _____ writer who has, for more than half a century, _____ for his searing honesty is George Orwell. He is recondite, but he is never _____. He says it as it is and yet says it as it has not been said _____.

Question 71

All of us have admired some writers, _____ their work

A preferring

- B preferred
- C having preferred
- D had preferred

Answer: B

Question 72

_____ writer who has

- A The
- B This
- C That
- D One

Answer: D

SSC Stenographer Previous Papers (Latest Pattern)

Question 73

_____ for his searing honesty is George Orwell.

- A was admired
- B been admired
- C admired
- D was being admired

Answer: B

Question 74

He is recondite, but he is never _____.

- A trite
- B pertinent
- C impressive

D relevant

Answer: A

Question 75

He says it as it is and yet says it as it has not been said _____.

A after

B later

C before

D since

Answer: C

SSC GD Constable Free Mock Test (Latest Pattern)

Mathematics

Instructions

For the following questions answer them individually

Question 76

Profit of Rs 936000 has to be divided among three partners Anirudhha, Balwant and Charudatta in the ratio 2:3:5. How much does Charudatta get?

A 280800

B 187200

C 468000

D 234000

Answer: C

Explanation:

Total profit to be distributed = Rs. 9,36,000

Ratio of profit divided among Anirudhha, Balwant and Charudatta = 2:3:5

Thus, amount that Charudatta will get = $\frac{5}{(2+3+5)} \times 936000$

= $\frac{5}{10} \times 936000$

= $5 \times 93600 = Rs\ 468,000$

=> Ans - (C)

SSC MTS Free Mock Test (Latest Pattern)

Question 77

The price of an article is cut by 36%, to restore to its original value, the new price must be increased by

- A 56.25 percent
- B 36 percent
- C 26.47 percent
- D 45 percent

Answer: A

Explanation:

Let the original price of the article = Rs. 100

If the price is cut by 36%, => New price = $\frac{100-36}{100} \times 100 = Rs.64$

To restore to its original value the new price must be increased by = $\frac{100-64}{64} \times 100$

= $\frac{225}{4} = 56.25\%$

=> Ans - (A)

Question 78

The mean of marks secured by 50 students in division A of class X is 61, 25 students of division B is 57 and that of 50 students of division C is 55. What will be the mean of marks of the students of three divisions of Class X?

- A 57.1
- B 56.4
- C 59.2
- D 57.8

Answer: D

Explanation:

Total marks secured by 50 students in division A = $50 \times 61 = 3050$

Total marks secured by 25 students in division B = $25 \times 57 = 1425$

Total marks secured by 50 students in division C = $50 \times 55 = 2750$

$$\Rightarrow \text{Mean of marks of the students of three divisions of Class X} = \frac{(3050+1425+2750)}{(50+25+50)}$$

$$= \frac{7225}{125} = 57.8$$

\Rightarrow Ans - (D)

Question 79

If the selling price is Rs 1680 after getting a discount of 16%, what was the marked price?

- A Rs 2000
- B Rs 1948.8
- C Rs 1411.2
- D Rs 1448

Answer: A

Explanation:

Let Marked Price = Rs. x

Selling price = Rs. 1680

$$\text{Discount \%} = \frac{(x-1680)}{x} \times 100 = 16$$

$$\Rightarrow \frac{x-1680}{x} = \frac{16}{100} = \frac{4}{25}$$

$$\Rightarrow 25x - 42000 = 4x$$

$$\Rightarrow 25x - 4x = 21x = 42000$$

$$\Rightarrow x = \frac{42000}{21} = \text{Rs } 2000$$

\Rightarrow Ans - (A)

SSC CPO Free Mock Test (Latest Pattern)

Question 80

The sum of $6xy(2x - 4z)$, $3yz(2x - 3z)$ and $4xz(3y - 2y)^2$ is

- A $12x^2y - 18xyz - 9yz^2 - 4xy^2z$
- B $12x^2y - 18xyz + 9yz^2 + 4xy^2z$
- C $12x^2y - 18xyz - 9yz^2 + 4xy^2z$
- D $12x^2y + 18xyz - 9yz^2 + 4xy^2z$

Answer: C

Explanation:

$$\begin{aligned} & \text{Sum of : } 6xy(2x - 4z), 3yz(2x - 3z) \text{ and } 4xz(3y - 2y)^2 \\ & = (12x^2y - 24xyz) + (6xyz - 9yz^2) + (4xy^2z) \\ & = 12x^2y - 18xyz - 9yz^2 + 4xy^2z \\ & \Rightarrow \text{Ans - (C)} \end{aligned}$$

Question 81

When a discount of 25% is given on a cruise trip, the profit is 41%. If the discount is 26%, then the profit is

- A 39.12 percent
- B 67 percent
- C 94.88 percent
- D 11.24 percent

Answer: A

Explanation:

Let marked price = Rs. $100x$

After 25% discount, selling price = $\frac{100-25}{100} \times 100x = \text{Rs. } 75x$

Let Cost price = Rs. y

$$\Rightarrow \text{Profit \%} = \frac{75x-y}{y} \times 100 = 41$$

$$\Rightarrow \frac{75x-y}{y} = \frac{41}{100}$$

$$\Rightarrow 7500x - 100y = 41y$$

$$\Rightarrow y = \frac{7500x}{141} \approx \text{Rs } 53.2x$$

If, discount = 26%, \Rightarrow Selling price = $\frac{100-26}{100} \times 100x = \text{Rs. } 74x$

$$\therefore \text{Profit \%} = \frac{74x-53.2x}{53.2x} \times 100 \approx 39.12\%$$

Ans - (A)

Question 82

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

- A $(1 - \cos A)/(1 + \cos A)$
- B $(1 - \sin A)/(1 + \sin A)$
- C $(1 - \sec A)/(1 + \sec A)$
- D $(1 - \operatorname{cosec} A)/(1 + \operatorname{cosec} A)$

Answer: A

Explanation:

$$\text{Expression : } (\cot A - \operatorname{cosec} A)^2 = x$$

$$= \left(\frac{\cos A}{\sin A} - \frac{1}{\sin A} \right)^2$$

$$= \left(\frac{\cos A - 1}{\sin A} \right)^2$$

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

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

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

=> Ans - (A)

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Question 83

A does 30% of a work in 30 days. He then calls in B and they together finish the remaining work in 20 days. How long B alone would take to do the whole work?

A 40 days

B 80 days

C 120 days

D 20 days

Answer: A

Explanation:

Let total work to be done = 100 units

$$\text{Work done by A in 30 days} = \frac{30}{100} \times 100 = 30 \text{ units}$$

$$\text{A's efficiency} = \frac{30}{30} = 1 \text{ unit/day}$$

$$\text{Remaining work} = 100 - 30 = 70 \text{ units}$$

$$\text{Let B's efficiency} = x \text{ units/day}$$

Now, A and B complete remaining work in 20 days

$$\Rightarrow (1 + x) \times 20 = 70$$

$$\Rightarrow 1 + x = \frac{70}{20} = 3.5$$

$$\Rightarrow x = 3.5 - 1 = 2.5$$

$$\therefore \text{Time taken by B to complete the whole work alone} = \frac{100}{2.5} = 40 \text{ days}$$

=> Ans - (A)

Question 84

If $2x - 6 \leq x - 3$ and $1+3x < 4x + 4$, then x can take which of the following values?

- A 4
- B -4
- C -6
- D 2

Answer: D

Explanation:

Expression 1 : $2x - 6 \leq x - 3$

$$\Rightarrow 2x - x \leq -3 + 6$$

$$\Rightarrow x \leq 3 \text{ -----(i)}$$

Expression 2 : $1+3x < 4x + 4$

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

$$\Rightarrow 4x - 3x > -3$$

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

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

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

=> Ans - (D)

Question 85

If $\cot A = x$, then the value of x is

- A $\sqrt{(\sec^2 A + 1)}$
- B $\sqrt{(\operatorname{cosec}^2 A + 1)}$
- C $\sqrt{(\sec^2 A - 1)}$
- D $\sqrt{(\operatorname{cosec}^2 A - 1)}$

Answer: D

Explanation:

We know that, $\operatorname{cosec}^2 A - \cot^2 A = 1$

$$\Rightarrow \cot^2 A = \operatorname{cosec}^2 A - 1$$

$$\Rightarrow \cot A = \sqrt{\operatorname{cosec}^2 A - 1}$$

\Rightarrow Ans - (D)

SSC CHSL Important Questions and Answers (Download PDF)

Question 86

If $14.35 - (1.956 - x) - 83.92 = 3.858$ then what is the value of x ?

A -92.456

B 75.384

C 71.472

D 104.084

Answer: B

Explanation:

Expression : $14.35 - (1.956 - x) - 83.92 = 3.858$

$$\Rightarrow 14.35 - 1.956 + x = 3.858 + 83.92$$

$$\Rightarrow 12.394 + x = 87.778$$

$$\Rightarrow x = 87.778 - 12.394$$

$$\Rightarrow x = 75.384$$

\Rightarrow Ans - (B)

Question 87

In a Rhombus ABCD, measure of angle CAB is 25° , what is the measure of angle ABC?

A 65°

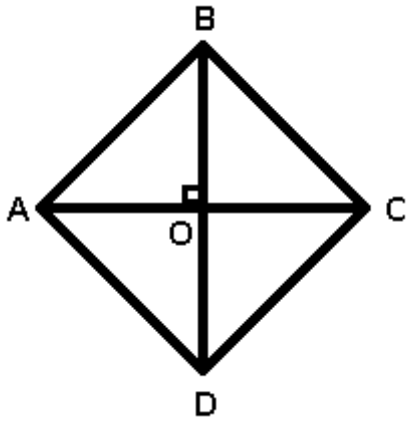
B 50°

C 40°

D 130°

Answer: D

Explanation:



Given : ABCD is a rhombus and $\angle CAB = 25^\circ$

To find : $\angle ABC = ?$

Solution : Diagonals of a rhombus bisect each other at 90° and also bisect the angles of the rhombus.

In $\triangle AOB$

$$\Rightarrow \angle AOB + \angle OBA + \angle BAO = 180^\circ$$

$$\Rightarrow 90^\circ + 25^\circ + \angle OBA = 180^\circ$$

$$\Rightarrow \angle OBA = 180^\circ - 115^\circ = 65^\circ$$

$$\therefore \angle ABC = 2 \times \angle OBA$$

$$= 2 \times 65 = 130^\circ$$

\Rightarrow Ans - (D)

Question 88

The volume of a cuboid is 320 cubic cm. Find its total surface area if its length and breadth are 10 cm and 8 cm respectively?

A 608 sq cms

B 304 sq cms

C 152 sq cms

D 456 sq cms

Answer: B

Explanation:

Let height of cuboid = h cm , length = 10 cm and breadth = 8 cm

$$\text{Volume of cuboid} = lbh = 320$$

$$\Rightarrow 10 \times 8 \times h = 320$$

$$\Rightarrow h = \frac{320}{80} = 4 \text{ cm}$$

$$\text{Total surface area of cuboid} = 2(lb + bh + hl)$$

$$\begin{aligned} &= 2[(10 \times 8) + (8 \times 4) + (4 \times 10)] \\ &= 2(80 + 32 + 40) \\ &= 2 \times 152 = 304 \text{ cm}^2 \\ &\Rightarrow \text{Ans - (B)} \end{aligned}$$

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Question 89

The circumference of a circle is equal to the perimeter of an equilateral triangle. If the radius of the circle is 7 cm what is the length of the side of the equilateral triangle?

- A $22/3$ cm
- B $44/3$ cm
- C 44 cm
- D 22 cm

Answer: B

Explanation:

Let side of equilateral triangle = a cm and radius, $r = 7$ cm

Circumference of circle = $2\pi r$

$$= 2 \times \frac{22}{7} \times 7 = 44 \text{ cm}$$

According to ques, circumference of circle = Perimeter of triangle

$$\Rightarrow \text{Perimeter of equilateral triangle} = 3a = 44$$

$$\Rightarrow a = \frac{44}{3} \text{ cm}$$

\Rightarrow Ans - (B)

Question 90

The slope of the line passing through the points (2,-1) and (x,5) is -1. Find x?

- A 4
- B -4
- C -8
- D 8

Answer: B

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 $(2, -1)$ and $(x, 5) = -1$

$$\Rightarrow \frac{5+1}{x-2} = -1$$

$$\Rightarrow \frac{6}{x-2} = -1$$

$$\Rightarrow x - 2 = -6$$

$$\Rightarrow x = 2 - 6 = -4$$

\Rightarrow Ans - (B)

Question 91

The sum of the ages of father and son at present is 33. Two years ago the product of their ages was 28. What is the age of the father and the son?

A 26, 7

B 30, 3

C 29, 4

D 32, 1

Answer: B

Explanation:

Let the age of son = x years and father's age = $(33 - x)$ years

Product of their ages 2 years ago = $(x - 2)(33 - x - 2) = 28$

$$\Rightarrow (x - 2)(31 - x) = 28$$

$$\Rightarrow 31x - x^2 - 62 + 2x = 28$$

$$\Rightarrow x^2 - 33x + 90 = 0$$

$$\Rightarrow x^2 - 3x - 30x + 90 = 0$$

$$\Rightarrow x(x - 3) - 30(x - 3) = 0$$

$$\Rightarrow (x - 3)(x - 30) = 0$$

$$\Rightarrow x = 30, 3$$

\therefore Ages of father and son are 30 and 3

\Rightarrow Ans - (B)

SSC CHSL Syllabus

Question 92

Rameshwar goes on a trip on his motor-cycle and rides for 405 kms. If he rides for 6 hours at a speed of 45 km/hr, find at what speed he travels for the remaining 3 hours of the journey?

- A 55 km/hr
- B 52 km/hr
- C 45 km/hr
- D 40 km/hr

Answer: C

Explanation:

Total distance covered = 405 km

He rides for 6 hours at a speed of 45 km/hr

=> Distance covered = $6 \times 45 = 270$ km

Distance left = $405 - 270 = 135$ km

∴ Speed he should travel for the remaining 3 hours of the journey = $\frac{135}{3} = 45$ km/hr

=> Ans - (C)

Question 93

There is 40% increase in an amount in 8 years at simple interest. What will be the compound interest of Rs. 10000 after 3 years at the same rate?

- A Rs 1576.25
- B Rs 6305
- C Rs 7881.25
- D Rs 4728.75

Answer: A

Explanation:

Let the principal = Rs. $100x$

=> Amount after simple interest = $\frac{140}{100} \times 100 = Rs.140x$

=> Simple interest = $140x - 100x = Rs.40x$

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

=> $40x = \frac{100x \times 8 \times R}{100}$

$$\Rightarrow R = \frac{40}{8} = 5\%$$

Compound interest of Rs. 10,000 for 3 years = $P[(1 + \frac{R}{100})^T - 1]$

$$= 10,000[(1 + \frac{5}{100})^3 - 1]$$

$$= 10,000[(\frac{21}{20})^3 - 1]$$

$$= 10,000 \times \frac{9261-8000}{8000} = 10 \times \frac{1261}{8}$$

$$= \frac{12610}{8} = Rs\ 1576.25$$

=> Ans - (A)

Question 94

If $\tan \pi/3 + \operatorname{cosec} \pi/6 = x$, then x is

A $(1-\sqrt{2})/\sqrt{2}$

B $(\sqrt{3}+4)/2\sqrt{3}$

C $\sqrt{3}+2$

D $(2\sqrt{2}-1)/2$

Answer: C

Explanation:

Expression : $\tan \pi/3 + \operatorname{cosec} \pi/6 = x$

$$= \tan(60) + \operatorname{cosec}(30)$$

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

=> Ans - (C)

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Question 95

If $4x - 7y = 3$ and $2x - y = 9$, then $x - y$ is.

A 3

B 4

C 5

D 6

Answer: A

Explanation:

Equation 1 : $4x - 7y = 3$

Equation 2 : $2x - y = 9$

Multiplying equation (ii) by 2 and subtracting equation (i) from it

$$\Rightarrow (-2y + 7y) = (18 - 3)$$

$$\Rightarrow 5y = 15$$

$$\Rightarrow y = \frac{15}{5} = 3$$

Substituting it in equation (ii), $\Rightarrow 2x = 9 + 3 = 12$

$$\Rightarrow x = \frac{12}{2} = 6$$

$$\therefore (x - y) = 6 - 3 = 3$$

\Rightarrow Ans - (A)

Question 96

If the length of the side of an equilateral triangle is 6 cm, what is its area?

A $18\sqrt{3}$ sq cm

B $36\sqrt{3}$ sq cm

C $27\sqrt{3}$ sq cm

D $9\sqrt{3}$ sq cm

Answer: D

Explanation:

Side of an equilateral triangle, $a = 6$ cm

$$\text{Area} = \frac{\sqrt{3}}{4}(a)^2$$

$$= \frac{\sqrt{3}}{4} \times (6)^2 = \frac{36\sqrt{3}}{4}$$

$$= 9\sqrt{3} \text{ cm}^2$$

\Rightarrow Ans - (D)

Question 97

Read the table and answer the given questions

	Quantity of cost	Average cost(RS)
MOBILES	99	15000
CAMERAS	53	13000
TVs	29	59000
REFRIGERATOR	21	56000
AC	97	25000

What is the value of the total cost in lakhs ?

- A 748.6
- B 74.86
- C 168
- D 299

Answer: B

Explanation:

Total cost of mobiles = $99 \times 15000 = \text{Rs. } 14,85,000$

Total cost of Cameras = $53 \times 13000 = \text{Rs. } 6,89,000$

Total cost of TVs = $29 \times 59000 = \text{Rs. } 17,11,000$

Total cost of Refrigerator = $21 \times 56000 = \text{Rs. } 11,76,000$

Total cost of AC = $97 \times 25000 = \text{Rs. } 24,25,000$

\therefore Total cost = $14,85,000 + 6,89,000 + 17,11,000 + 11,76,000 + 24,25,000 = \text{Rs. } 74,86,000$

Total cost in lakhs = Rs 74.86 lakhs

=> Ans - (B)

SSC CHSL Study Material

Question 98

Read the table and answer the given questions

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

If the imports in 2012 was Rs. 600 crores and the total exports in the years 2012 and 2013 together was Rs. 4400 crores, then the imports in 2013 was?

- A 3232
- B 4622
- C 3666
- D 3938

Answer: D

Explanation:

Imports in 2012 = Rs. 600 crores

Let Exports in 2012 = Rs. y crores

Ratio of imports and exports in 2012 = 1.3

$$\Rightarrow \frac{600}{y} = 1.3$$

$$\Rightarrow y = \frac{600}{1.3} = 461.53$$

Total exports In the years 2012 and 2013 together = Rs. 4400 crores

\Rightarrow Exports in 2013 = Rs. $(4400 - 461.53)$ crores = Rs. 3938.47 crores

Let imports in 2013 = Rs. x crores

$$\text{Ratio of imports and exports in 2013} = \frac{x}{3938.47} = 1$$

$$\Rightarrow x = 3938.47 \approx 3938$$

\therefore Imports in 2013 was Rs. 3938 crores

\Rightarrow Ans - (D)

Question 99

Read the data in table and answer the given question

Measured On Birthday	Height of Children in CMs
4	100
5	105
6	115
7	125
8	130
9	140
10	145
11	155
12	160
13	170
14	175
15	180
16	190

What is the increase in height of child from 10th birthday to 13th birthday?

- A 30 cms
- B 25 cms
- C 20 cms
- D 35 cms

Answer: B

Explanation:

Height on 10th birthday = 145 cm

Height on 13th birthday = 170 cm

Increase in height = $170 - 145 = 25$ cm

=> Ans - (B)

Question 100

Read the data in the table and answer the questions

Deep Sleep	20
Dreaming	20
Light Sleep	30
Exreamly Sleep	25
Awake	5

Between 10pm to 6am, a fitness band records the following data. How long was the user in Light sleep or in Extreme sleep ?

- A 4.4 hours
- B 3.9 hours
- C 2.9 hours
- D 4.9 hours

Answer: A

Explanation:

Total time between 10 pm to 6 am = 8 hours

% time spent in Light sleep or in Extreme sleep = 30 + 25 = 55%

=> Time spent in Light sleep or in Extreme sleep = $\frac{55}{100} \times 8$

= $\frac{22}{5} = 4.4$ hours

=> Ans - (A)

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