



## SSC CHSL 30 Jan 2017 Morning Shift

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## Reasoning

### Instructions

For the following questions answer them individually

### Question 1

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

Seismology : Earthquake :: Hydrology : ?

- A Child
- B Water
- C Medicine
- D Disease

Answer: B

### Explanation:

Seismology is the branch of science concerned with earthquakes, similarly Hydrology is the branch of science concerned with the properties of the earth's *water*.

=> Ans - (B)

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### Question 2

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

DR:SE :: NC: ?

- A PF
- B DO
- C OD
- D PE

Answer: B

### Explanation:

Expression = DR:SE :: NC: ?

The pattern followed when we *reverse* the code is :

R	D
(+1)	(+1)
S	E

Similarly, reverse of NC :

C	N
(+1)	(+1)
D	O

=> Ans - (B)

### Question 3

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

KD:PW :: RN: ?

- A IM

- B MI
- C WM
- D ME

**Answer: A**

**Explanation:**

Expression = KD:PW :: RN: ?

Alphabets at the corresponding position from the reverse end are written.

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
↓	↓	...																				...		↓	
Z	Y	X	W	V	U	T	S	R	Q	P	O	N	M	L	K	J	I	H	G	F	E	D	C	B	A

Similarly, RN : IM

=> Ans - (A)

**Question 4**

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

37: 10 :: 65: ?

- A 11
- B 15
- C 16
- D 14

**Answer: A**

**Explanation:**

Expression = 37: 10 :: 65: ?

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

Eg :- 37 ≡ 3 + 7 = 10

Similarly, 65 ≡ 6 + 5 = 11

=> Ans - (A)

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**Question 5**

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

- A Quit India Movement
- B Non-Cooperation Movement
- C Salt Satyagraha Movement
- D Bardoli Satyagraha Movement

**Answer: D**

**Explanation:**

Quit India Movement, Non-Cooperation Movement and Salt Satyagraha Movement were led by Mahatma Gandhi while Bardoli Satyagraha Movement was led by Sardar Vallabhai Patel, hence Bardoli Satyagraha Movement is the odd one out.

=> Ans - (D)

**Question 6**

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

- A PR
- B LN
- C YW
- D AC

**Answer: C**

**Explanation:**

(A) : P (+2 letters) = R

(B) : L (+2 letters) = N

(C) : Y (-2 letters) = W

(D) : A (+2 letters) = C

=> Ans - (C)

**Question 7**

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

- A 235
- B 678
- C 347
- D 268

**Answer: B**

**Explanation:**

The pattern followed is that sum of first two digits in a number is equal to the third digit, but  $6 + 7 \neq 8$ , hence 678 is the odd one out.

=> Ans - (B)

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**Question 8**

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

- A 48
- B 180
- C 18
- D 150

**Answer: D**

**Explanation:**

Apart from 150, all other numbers contain digit 8, hence 150 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.

?, Vice President, Prime Minister, Deputy Prime Minister

- A Chief Minister
- B Governor
- C Defense Minister
- D President

**Answer: D**

**Explanation:**

A Deputy Prime Minister can take the position of acting Prime Minister when the Prime Minister is temporarily absent.

Similarly, a Vice President can take the position of acting **President** when the President is temporarily absent.

=> Ans - (D)

**Question 10**

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

JI, LK, NM, ?

- A ST
- B OP
- C QR
- D PO

**Answer: D**

**Explanation:**

Expression : JI, LK, NM, ?

The pattern followed in each letter of the terms is :

1st letter : J (+2 letters) = L (+2 letters) = N (+2 letters) = P

2nd letter : I (+2 letters) = K (+2 letters) = M (+2 letters) = O

Thus, missing term : **PO**

=> Ans - (D)

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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.

Gw, Jt, Np, ?

- A SK
- B Sk
- C Rk
- D RI

**Answer: B**

**Explanation:**

Expression : Gw, Jt, Np, ?

The pattern followed in each letter of the terms is :

1st letter : G (+3 letters) = J (+4 letters) = N (+5 letters) = S

2nd letter : w (-3 letters) = t (-4 letters) = p (-5 letters) = k

Thus, missing term : **Sk**

=> Ans - (B)

**Question 12**

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

17, 27, 42, 62, ?

A 82

B 87

C 81

D 84

Answer: B

**Explanation:**

Multiples of 5 are added.

$$17 + 10 = 27$$

$$27 + 15 = 42$$

$$42 + 20 = 62$$

$$62 + 25 = \mathbf{87}$$

=> Ans - (B)

**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) Many rituals, if incorporated in daily routine can make positive changes in one's life.

(II) Bending forward in mosque or prostrating before God are great exercises as these involve backstretch, squat, bend and rise again.

**Conclusions:**

(I) Religion offers great scope for exercise.

(II) If only these religious rituals are practiced daily, they can make positive changes in health of an individual.

A Only conclusion II follows

B Conclusion I and II both follow

C Neither I nor II follow

D Only conclusion I follows

Answer: B

**Explanation:**

The given statements indicate that many incorporated rituals can make positive changes in one's life if performed daily. Some of the examples include bending forward in mosque or prostrating before God are great exercises as these involve backstretch, squat, bend and rise again. Clearly, first conclusion is true as religion offers great scope for exercise. Also, the second conclusion is a replica of first

statement.

Thus, conclusion I and II both follow.

=> Ans - (B)

## SSC CGL Free Mock Test (Latest Pattern)

### Question 14

If the 14th September of any year is a Tuesday, then which day of the week will the 17th October of the same year be?

A Thursday

B Saturday

C Sunday

D Monday

**Answer: C**

### Explanation:

According to the question, 14th September is Tuesday

Number of days left in September =  $30 - 14 = 16$

Similarly, odd days from 14th September till 17th October =  $(16 + 17) \% 7$

=  $2 + 3 = 5$

Thus, day on 17th October = Tuesday (+5) = Sunday

=> Ans - (C)

### Question 15

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

i. Heredity

ii. Hesitate

iii. Heavy

iv. Herald

A iii, iv, i, ii

B i, iv, iii, ii

C ii, iii, i, iv

D iv, iii, ii, i

**Answer: A**

### Explanation:

As per the order of dictionary :

= Heavy -> Herald -> Heredity -> Hesitate

≡ iii, iv, i, ii

=> Ans - (A)

### Question 16

In a certain code language, "MASTER" is written as "RETSAM". How is "LITERACY" written in that code language?

A ETICRACY

- B YCARETIL
- C YARCETIC
- D ETICYACR

**Answer: B**

**Explanation:**

"MASTER" is written as "RETSAM"

The pattern followed is that the word is written in reverse order, i.e. first letter at the end, second letter at second last position and so on.

Similarly, LITERACY : **YCARETIL**

=> Ans - (B)

## SSC CHSL Important Questions and Answers (Download PDF)

**Question 17**

In the following question, select the missing number for the given series.

R	X	?
D	V	L
N	B	F

- A Q
- B R
- C S
- D T

**Answer: B**

**Explanation:**

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

$$D=4 \text{ and } N=14, \Rightarrow 4 + 14 = 18 \equiv R$$

$$V=22 \text{ and } B=2, \Rightarrow 22 + 2 = 24 \equiv X$$

$$\text{Similarly, } L=12 \text{ and } F=6, \Rightarrow 12 + 6 = 18 \equiv R$$

=> Ans - (B)

**Question 18**

If "A" denotes "added to", "B" denotes "divided by", "C" denotes "multiplied by" and "D" denotes "subtracted from", then

$$76 \text{ B } 19 \text{ C } 7 \text{ A } 3 \text{ D } 25 = ?$$

- A 4
- B 3
- C 5
- D 6

**Answer: D**

**Explanation:**

$$\text{Expression : } 76 \text{ B } 19 \text{ C } 7 \text{ A } 3 \text{ D } 25 = ?$$



$$\equiv 76 \div 19 \times 7 + 3 - 25$$

$$= (4 \times 7) - 22$$

$$= 28 - 22 = 6$$

=> Ans - (D)

#### Question 19

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

M\_N\_M\_MR\_R\_N

A RMRMN

B RRNNM

C RNRNM

D MMRRN

Answer: B

#### Explanation:

The pattern followed is that in a group of 6 letters, the term 'MRNRMN' is repeated.

= MRNRMN MRNRMN

=> Ans - (B)

## SSC CHSL Study Material

#### Question 20

Starting from his house, Manish moves 25 km towards south-east and then turns to the west and covers another 7 km. How far (in kilometres) is he now from his house?

A 21

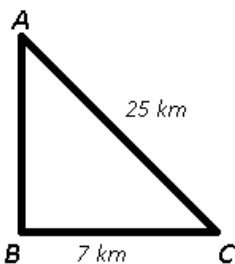
B 23

C 24

D 28

Answer: C

#### Explanation:



Let Manish starts from point A and moved 25 km south east to reach point C, then he turned west and travelled 7 km and finally stopped at point B.

Thus, in  $\triangle ABC$ ,

$$\Rightarrow (AB)^2 = (AC)^2 - (BC)^2$$

$$\Rightarrow (AB)^2 = (25)^2 - (7)^2$$

$$\Rightarrow (AB)^2 = 625 - 49 = 576$$

$$\Rightarrow AB = \sqrt{576} = 24 \text{ km}$$

$\Rightarrow$  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, '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 'SNOW'.

Matrix - I

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

Matrix - II

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

- A 76, 43, 59, 21
- B 95, 23, 79, 10
- C 99, 01, 57, 30
- D 69, 12, 65, 20

Answer: D

#### Explanation:

(A) : 76, 43, 59, 21 = SNOG

(B) : 95, 23, 79, 10 = SNOU

(C) : 99, 01, 57, 30 = SNDW

(D) : 69, 12, 65, 20 = **SNOW**

$\Rightarrow$  Ans - (D)

### Question 22

Anjali's brother, Shyam, is the grandfather of Rajendra's son. How is Shyam related to Rajendra?

- A Brother
- B Son
- C Father
- D Maternal Uncle

Answer: C

**Explanation:**

It is given that Shyam is the grandfather of Rajendra's son.

Thus, Rajendra is the son of Shyam.

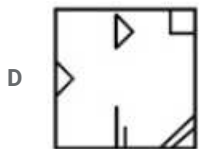
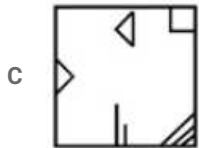
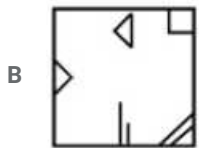
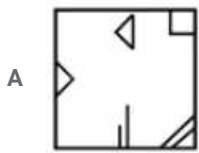
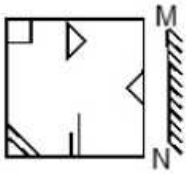
Thus, Shyam is the father of Rajendra.

=> Ans - (C)

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**Question 23**

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



Answer: B

**Explanation:**

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

Third option is eliminated as the two parallel lines at bottom right is not changed to three.

First option is eliminated as the bigger line in the middle will appear on the left.

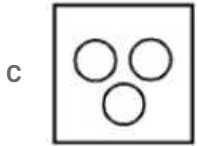
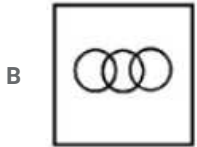
Last option is eliminated as the triangle in the middle will point towards left, hence second option is the right image.

=> Ans - (B)

**Question 24**

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

Husband, Wife, Son



Answer: D

**Explanation:**

A husband is always a son first (but vice-versa may not be true), and a wife (being a woman) can never be a husband or son.

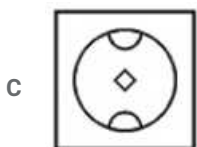
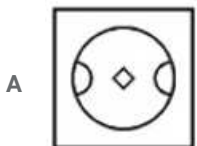
Thus, the venn diagram that best describes above relationship is :

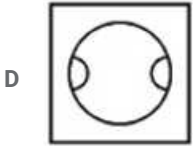


=> Ans - (D)

**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?





D

Answer: B

**Explanation:**

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

When the paper is unfolded first to the left, a semi circular shape will appear at the top left. Similarly when the paper is unfolded fully four semi circular shapes will appear in the paper 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**

Which of these Indians has been awarded with Bharat Ratna?

- A Atal Bihari Vajpayee
- B Subhas Chandra Bose
- C Rahul Gandhi
- D P. V. Narasimha Rao

Answer: A

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**Question 27**

\_\_\_\_\_ is a drug that makes your heart work more slowly, used for treating high blood pressure.

- A Contraceptive
- B Beta-Blocker
- C Depressant
- D Enema

Answer: B

**Question 28**

Ocimum tenuiflorum is the scientific name of \_\_\_\_\_.

- A Neem

- B Mango
- C Babul
- D Tulsi

Answer: D

**Question 29**

Which gland secretes bile, a digestive fluid?

- A pancreas
- B liver
- C thyroid
- D testes

Answer: B

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**Question 30**

The Chemical formula of Ammonium chloride is \_\_\_\_\_.

- A  $(NH_4)_2Cl$
- B  $NH_4Cl_3$
- C  $NH_4Cl_2$
- D  $NH_4Cl$

Answer: D

**Question 31**

Which of the following elements has the lowest melting point?

- A Iron
- B Nitrogen
- C Iodine
- D Lead

Answer: B

**Question 32**

In Internet, what is the full form of TCP ?

- A Transfer Control Program

- B Transfer Control Protocol
- C Transmission Control Program
- D Transmission Control Protocol

Answer: B

## SSC Exam Update Videos & Free Study Material (YouTube Channel)

### Question 33

Which of these languages is generally not spoken in Southern part of India?

- A Telugu
- B Konkani
- C Maithili
- D Malayalam

Answer: C

### Question 34

If demand curve for radial car tyres is  $D = 230000 - 19P$  and supply curve is  $S = 180000 + 6P$ , find the equilibrium Quantity?

- A 19200 units
- B 291000 units
- C 29100 units
- D 192000 units

Answer: D

### Question 35

Match the characteristics with their market structure:

- (a) Differentiated products, but close substitutes for consumers so their demand curves are elastic.
- (b) Firm will tend to set output so that it earns maximum profits.

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

Answer: B

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### Question 36

Indravati Tiger Reserve is in which state?

- A Telangana

- B Rajasthan
- C Chhattisgarh
- D West Bengal

**Answer: C**

**Question 37**

Pyrolusite is an ore/mineral of \_\_\_\_\_.

- A Mercury
- B Manganese
- C Molybdenum
- D Lead

**Answer: B**

**Question 38**

What does IMF stand for?

- A International Monetary Fund
- B Indian Money Fund
- C International Machine Federation
- D Institute of Monetary Finance

**Answer: A**

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**Question 39**

What is the capital of Ireland?

- A Brussels
- B Helsinki
- C Ottawa
- D Dublin

**Answer: D**

**Question 40**

A bound collection of maps is called \_\_\_\_\_.

- A Cryosphere
- B Geomorphology
- C Atlas



D Contour lines

Answer: C

**Question 41**

Which of these countries got Independence from United Kingdom?

A Uzbekistan

B India

C Venezuela

D South Korea

Answer: B

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**Question 42**

The Biography of Humayun was written by \_\_\_\_\_.

A Nur Jehan

B Jodha

C Anarkali

D Gulbadan Begum

Answer: D

**Question 43**

Who Invented Internet Protocol?

A Vint Cerf

B David Chaum

C Georges Claude

D Josephine Cochrane

Answer: A

**Question 44**

Find the power of a convex lens if the image formed is at a distance of 10 cm from the lens when the object is placed on the other side of the lens at 40 cm from the optical centre?

A 12.5 diopters

B 7.5 diopters

C -12.5 diopters

D -7.5 diopters

Answer: A

## SSC CHSL Free Mock Test

Question 45

Filament of electric bulb is made of \_\_\_\_.

- A Magnesium
- B Lead
- C Tin
- D Tungsten

Answer: D

Question 46

Under which Article was Emergency in India declared in 1975?

- A Article 1
- B Article 152
- C Article 286
- D Article 352

Answer: D

Question 47

The United Nations Green Climate Fund is Headquartered in which country?

- A South Korea
- B U.S.A
- C Canada
- D Australia

Answer: C

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Question 48

Anjum Chopra is associated with which Sport?

- A Javelin Thrower
- B Archery
- C Cricket
- D Badminton

Answer: C

**Question 49**

**Who is the author of "Life of Pi"?**

- A Eleanor Catton
- B Aravind Adiga
- C Yann Martel
- D Kiran Desai

**Answer: C**

**Question 50**

**Which was the first garden-tomb in the Indian subcontinent?**

- A Tomb of Jahangir
- B Humayun's Tomb
- C Taj Mahal
- D Tomb of Muhammad Iqbal

**Answer: B**

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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 best expresses the meaning of the idiom/phrase.**

**feeding frenzy**

- A a mad rush to complete a big project before deadline
- B an episode of frantic competition for something
- C a party where people hog on food
- D a craze which rapidly spreads all over the world

**Answer: B**

**SSC CGL Free Mock Test (Latest Pattern)**

**Question 52**

**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'.**

**You might as well(A)/read a novel instead of(B)/staring at the ceiling.(C)/No error(D)**

- A A

B B

C C

D D

Answer: D

Question 53

Select the word with the correct spelling.

A galeons

B audacity

C garbbling

D cerebrum

Answer: D

Question 54

Improve the bracketed part of the sentence.

The pet has just finished its meal (and is satisfied now).

A now and was satisfied

B now and is satisfied

C then and is satisfied

D no improvement

Answer: D

## SSC CHSL Important Questions and Answers (Download PDF)

Question 55

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

Ajit said to the policeman, 'What have I done to deserve so severe a punishment?'

A Ajit asked the policeman that, what he has done to be deserving so severe a punishment.

B Ajit asked the policeman that, what he has done to deserve so severe a punishment.

C Ajit asked the policeman that, what he had done to deserve so severe a punishment.

D Ajit asked the policeman what he had done to deserve so severe a punishment.

Answer: D

**Question 56**

Rearrange the parts of the sentence in correct order.

One will need to watch what  
P-happens in the United States  
Q-presidential elections  
R-after the forthcoming

- A RPQ
- B QRP
- C PRQ
- D QPR

Answer: C

**Question 57**

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 kangaroo carried her baby in her pouch.

- A The baby is carried by the kangaroo in her pouch.
- B The baby is being carried by the kangaroo in her pouch.
- C The baby had been carried by the kangaroo in her pouch.
- D The baby was carried by the kangaroo in her pouch.

Answer: D

## SSC CHSL Study Material

**Question 58**

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'.

There was already a sizable(A)/ gap between her car and(B)/the one front of her.(C)/No error(D)

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

Answer: C

**Question 59**

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

Involving or causing sudden great damage or suffering.

- A tragic

- B fatal
- C catastrophic
- D pathetic

Answer: C

**Question 60**

Improve the bracketed part of the sentence.

The air hostess gave me a cup (which had) coffee.

- A containing
- B filled with
- C of
- D no improvement

Answer: C

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**Question 61**

Select the synonym of to concoct

- A to obliterate
- B to contrive
- C to decimate
- D to pulverize

Answer: B

**Question 62**

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 aunt wears \_\_\_\_\_ outfits to ensure she is noticed everywhere she goes.

- A vivid
- B spirited
- C active
- D b

Answer: A

**Question 63**

Select the antonym of to exile

- A to relegation

- B to usher
- C to banish
- D to ostracism

Answer: B

## Daily Free SSC Practice Set

### Question 64

Rearrange the parts of the sentence in correct order.

Three examples will  
P-suffice as evidence  
Q-of her backsliding  
R-on long-held positions

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

Answer: D

### Question 65

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.

Mayur's second promotion in eleven months confirms he is at the \_\_\_\_\_ of his career.

- A roof
- B zenith
- C climax
- D vertex

Answer: B

### Question 66

Select the antonym of to envisage

- A oblivious
- B to apprehend
- C to confront
- D to visualize

Answer: A

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**Question 67**

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

**excuse my French**

- A to apologize for swearing
- B to speak in a language that others can't understand
- C being excessively polite
- D lack of foreign language skills

**Answer: A**

**Question 68**

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

**A small, nonrigid airship or dirigible, especially one used chiefly for observation.**

- A float
- B poise
- C bob
- D blimp

**Answer: D**

**Question 69**

**Select the synonym of eccentric**

- A whimsical
- B chronic
- C bona fide
- D typic

**Answer: A**

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**Question 70**

**Select the word with the correct spelling.**

- A ameenable
- B bevarage
- C chorused
- D loudable

**Answer: C**

**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.

But representatives have cynically chosen to look the other \_\_\_\_\_(1)\_\_\_\_\_ when matters of justice are involved. They seem to have only a will to power; to be part of a new \_\_\_\_\_(2)\_\_\_\_\_ elite. \_\_\_\_\_(3)\_\_\_\_\_ they forget that the history of struggle is the future of struggle. Maoism is one extreme \_\_\_\_\_(4)\_\_\_\_\_ struggle \_\_\_\_\_(5)\_\_\_\_\_ corrupt appropriative and greedy elites; there are others.

look the other \_\_\_\_\_(6)\_\_\_\_\_ when matters of justice are involved.

### Question 71

look the other \_\_\_\_\_ when matters of justice are involved.

- A road
- B action
- C way
- D method

Answer: C

### Question 72

They seem to have only a will to power; to be part of a new \_\_\_\_\_ elite.

- A exploitative
- B decent
- C ethical
- D fair

Answer: A

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### Question 73

\_\_\_\_\_ they forget that the history of struggle is the future of struggle.

- A Hence
- B So
- C In spite of
- D But

Answer: D

### Question 74

Maoism is one extreme \_\_\_\_\_ struggle

- A size
- B form of

C sample

D paragon

Answer: B

Question 75

\_\_\_\_\_ corrupt appropriate and greedy elites; there are others.

A against

B of

C for

D with

Answer: A

Explanation:

End Group:

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## Mathematics

Instructions

For the following questions answer them individually

Question 76

If  $(7x - 13) - (12x + 3) = 14$ , then the value of  $x$  is \_\_\_\_\_ .

A -6

B 6

C  $\frac{2}{5}$

D  $-\frac{2}{5}$

Answer: A

Explanation:

Expression :  $(7x - 13) - (12x + 3) = 14$

$\Rightarrow 7x - 13 - 12x - 3 = 14$

$\Rightarrow -5x - 16 = 14$

$\Rightarrow -5x = 16 + 14 = 30$

$\Rightarrow x = \frac{30}{-5} = -6$

$\Rightarrow$  Ans - (A)

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Question 77

Chutki can bake 30 cakes in 15 hours. Chutki and Badki together can bake 90 cakes in 30 hours. How many cakes Badki can bake in 10 hours?

- A 75
- B 20
- C 10
- D 60

**Answer: C**

**Explanation:**

$$\text{Cakes baked by Chutki in 1 hour} = \frac{30}{15} = 2$$

$$\text{Cakes baked by Chutki and Badki together in 1 hour} = \frac{90}{30} = 3$$

$$\Rightarrow \text{Cakes baked by Badki in 1 hour} = 3 - 2 = 1$$

$$\therefore \text{Cakes baked by Badki in 10 hours} = 10 \times 1 = 10$$

$\Rightarrow$  Ans - (C)

**Question 78**

If  $3x^2 = 10^2 - 5^2$ , find the value of x?

- A 7
- B 5
- C 9
- D 11

**Answer: B**

**Explanation:**

$$\text{Expression : } 3x^2 = 10^2 - 5^2$$

$$\Rightarrow 3x^2 = 100 - 25$$

$$\Rightarrow 3x^2 = 75$$

$$\Rightarrow x^2 = \frac{75}{3} = 25$$

$$\Rightarrow x = \sqrt{25} = 5$$

$\Rightarrow$  Ans - (B)

**Question 79**

The average revenues of 9 consecutive years of a company is Rs 65 lakhs. If the average of first 5 years is Rs 60 lakhs and that of last 5 years is Rs 72 lakhs, find the revenue for the 5th year.

- A Rs 77 lakhs
- B Rs 75 lakhs
- C Rs 73 lakhs
- D Rs 71 lakhs

**Answer: B**

**Explanation:**

$$\text{Total revenues of 9 years of the company} = 65 \times 9 = \text{Rs. } 585 \text{ lakhs}$$

$$\text{Total revenue of first 5 years} = 60 \times 5 = \text{Rs. } 300 \text{ lakhs}$$

Total revenue of last 5 years =  $72 \times 5 = \text{Rs. } 360$  lakhs

$\therefore$  Revenue of 5th year =  $(300 + 360) - 585 = 660 - 585$

= Rs. 75 lakhs

=> Ans - (B)

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### Question 80

What should be the missing digit so that the number 347\_547 becomes exactly divisible by 11?

A 5

B 3

C 9

D 2

Answer: B

#### Explanation:

For a number to be divisible by 11, difference between the sum of digits at odd places and even places (starting from right to left) should be divisible by 11.

Let the number be =  $347x547$

Sum of digits at odd places =  $7 + 5 + 7 + 3 = 22$

Sum of digits at even places =  $4 + x + 4 = (8 + x)$

Difference =  $22 - 8 - x = 14 - x$

Now, for  $(14 - x)$  to be divisible by 11, it should be equal to 11.

=>  $14 - x = 11$

=>  $x = 14 - 11 = 3$

=> Ans - (B)

### Question 81

Rajesh sells a machine for Rs 57 lakhs at a loss. Had he sold it for Rs 67 lakh, his gain would have been 7 times the former loss. Find the cost price of the machine.

A Rs 58.25 lakhs

B Rs 65.75 lakhs

C Rs 75.14 lakhs

D Rs 50.75 lakhs

Answer: A

#### Explanation:

Let cost price of the machine = Rs.  $x$  lakhs

When selling price = Rs. 57 lakhs

=> Loss = Rs.  $(x - 57)$  lakhs

If selling price = Rs. 67 lakhs

=> Profit = Rs.  $(67 - x)$  lakhs

According to ques, Profit =  $7 \times$  loss

$$\Rightarrow (67 - x) = 7 \times (x - 57)$$

$$\Rightarrow 67 - x = 7x - 399$$

$$\Rightarrow 7x + x = 399 + 67 = 466$$

$$\Rightarrow x = \frac{466}{8} = \text{Rs. } 58.25 \text{ lakhs}$$

$\Rightarrow$  Ans - (A)

#### Question 82

If  $7 + 4x > 3 + 3x$  and  $3x - 2 < 5 - x$ ; then  $x$  can take which of the following values?

A 2

B 3

C 1

D -5

Answer: C

#### Explanation:

Expression 1 :  $7 + 4x > 3 + 3x$

$$\Rightarrow 4x - 3x > 3 - 7$$

$$\Rightarrow x > -4 \text{ -----(i)}$$

Expression 2 :  $3x - 2 < 5 - x$

$$\Rightarrow 3x + x < 5 + 2$$

$$\Rightarrow 4x < 7$$

$$\Rightarrow x < \frac{7}{4} \text{ -----(ii)}$$

Combining inequalities (i) and (ii), we get :  $-4 < x < \frac{7}{4}$

Thus,  $x$  can take values = -3, -2, -1, 0, 1

$\Rightarrow$  Ans - (C)

## SSC CHSL Free Mock Test

#### Question 83

If 2 pair of trouser is offered free on purchase of 3 pair of trousers priced Rs 900 each what is the effective discount on each pair of trouser?

A 40 percent

B 33.33 percent

C 30 percent

D 20 percent

Answer: A

#### Explanation:

Cost price of 1 trouser = Rs. 900

Cost price of 5 trousers =  $5 \times 900 = \text{Rs. } 4,500$

If 2 trousers are offered free on purchase of 3 trousers,  $\Rightarrow$  Cost of 3 trousers =  $3 \times 900 = \text{Rs. } 2,700$

$$\Rightarrow \text{Effective discount} = \frac{4500 - 2700}{4500} \times 100$$

$$= \frac{1800}{45} = \frac{200}{5} = 40\%$$

$\Rightarrow$  Ans - (A)

#### Question 84

Find the value of p if  $3x + p$ ,  $x - 10$  and  $-x + 16$  are in arithmetic progression.

A 16

B 36

C -16

D -36

Answer: D

#### Explanation:

Terms in arithmetic progression :  $(3x + p), (x - 10), (-x + 16)$

$\Rightarrow$  Difference between first two terms is equal to the difference between last two terms

$$\Rightarrow (x - 10) - (3x + p) = (-x + 16) - (x - 10)$$

$$\Rightarrow -2x - 10 - p = -2x + 16 + 10$$

$$\Rightarrow -p = 26 + 10 = 36$$

$$\Rightarrow p = -36$$

$\Rightarrow$  Ans - (D)

#### Question 85

The point P(3,-2) divides the segment joining the points (x,0) and (0,y) in the ratio 1:3. Find x and y?

A  $x = 4; y = -8$

B  $x = -3; y = -8$

C  $x = 3; y = 8$

D  $x = -3; y = 8$

Answer: A

#### Explanation:

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

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

Now, point P (3,-2) divides (x,0) and (0,y) in ratio = 1 : 3

$$\Rightarrow 3 = \frac{(1 \times 0) + (3 \times x)}{1 + 3}$$

$$\Rightarrow x = \frac{3 \times 4}{3} = 4$$

$$\text{Similarly, } -2 = \frac{(1 \times y) + (3 \times 0)}{1 + 3}$$

$$\Rightarrow y = -2 \times 4 = -8$$

$\Rightarrow$  Ans - (A)

**Question 86**

What is the equation of the line if its slope is  $\frac{1}{4}$  and y-intercept is -3?

A  $x - 4y = 12$

B  $x + 4y = 12$

C  $x - 4y = -12$

D  $x + 4y = -12$

**Answer:** A

**Explanation:**

Slope,  $m = \frac{1}{4}$  and y-intercept,  $c = -3$

Equation of line =  $y = mx + c$

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

$$\Rightarrow y = \frac{x-12}{4}$$

$$\Rightarrow 4y = x - 12$$

$$\Rightarrow x - 4y = 12$$

$\Rightarrow$  Ans - (A)

**Question 87**

A thief is stopped by a policeman from a distance of 250 metres. When the policeman starts the chase, the thief also starts running. Assuming the speed of the thief as 5 km/h and that of police man as 7 km/h, how far the thief would have run, before he is overtaken?

A 500 metres

B 750 metres

C 375 metres

D 625 metres

**Answer:** D

**Explanation:**

Since the thief is escaping from the police man, thus they both are running in same direction.

Speed of thief = 5 km/hr and speed of policeman = 7 km/hr

$\Rightarrow$  Relative speed =  $7 - 5 = 2$  km/hr

Distance between them = 250 metres = 0.25 km

$\Rightarrow$  Time taken =  $\frac{\text{distance}}{\text{speed}}$

$$= \frac{0.25}{2} = \frac{1}{8} \text{ hr}$$

$\therefore$  Distance covered by thief before he was caught =  $5 \times \frac{1}{8}$

= 0.625 km = 625 metres

$\Rightarrow$  Ans - (D)

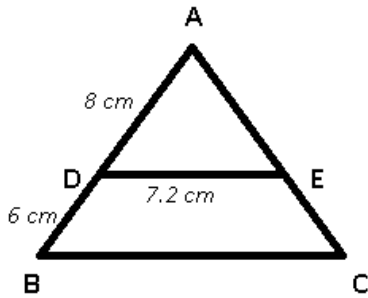
**Question 88**

In  $\triangle ABC$ , D and E are points on side AB and AC respectively. DE is parallel to BC. If lengths of AD, DB and DE are 8 cm, 6 cm and 7.2 cm respectively, find length of BC?

- A 12.6 cm
- B 9.3 cm
- C 8.1 cm
- D 5.4 cm

Answer: A

Explanation:



DE is parallel to BC

$$\Rightarrow \frac{AD}{AB} = \frac{DE}{BC}$$

$$\Rightarrow \frac{8}{8+6} = \frac{7.2}{BC}$$

$$\Rightarrow \frac{4}{7} = \frac{7.2}{BC}$$

$$\Rightarrow BC = 1.8 \times 7 = 12.6 \text{ cm}$$

$\Rightarrow$  Ans - (A)

## SSC CGL Previous Papers (DOWNLOAD PDF)

### Question 89

In a triangle the length of the side opposite the angle which measures 30 degree is  $9\sqrt{3}$  cm, what is the length of the side opposite to the angle which measures 60 degree?

- A 27 cm
- B 9 cm
- C  $12\sqrt{3}$  cm
- D  $\frac{(15\sqrt{3})}{2}$  cm

Answer: A

Explanation:

In the given triangle, two angles are  $30^\circ$  and  $60^\circ$ ,  $\Rightarrow$  Third angle =  $90^\circ$

In a 30-60-90 triangle, the hypotenuse is always twice as long as the side opposite the  $30^\circ$  angle and the side opposite the  $60^\circ$  angle is  $\sqrt{3}$  times as long as the side opposite the  $30^\circ$  angle.

The ratio of sides opposite  $30^\circ$ ,  $60^\circ$  and  $90^\circ$  angles =  $1 : \sqrt{3} : 2$

Length of the side opposite the  $30^\circ$  angle =  $9\sqrt{3}$  cm

$\Rightarrow$  Length of side opposite the  $60^\circ$  angle =  $\sqrt{3} \times 9\sqrt{3} = 27$  cm

$\Rightarrow$  Ans - (A)



**Question 90**

When a number is increased by 26, it becomes 113% of itself. What is the number?

- A 200
- B 312
- C 390
- D 234

**Answer: A**

**Explanation:**

Let the number be  $100x$

$$\text{According to ques, } \Rightarrow 100x + 26 = \frac{113}{100} \times 100x$$

$$\Rightarrow 100x + 26 = 113x$$

$$\Rightarrow 113x - 100x = 26$$

$$\Rightarrow x = \frac{26}{13} = 2$$

$$\therefore \text{Number} = 100 \times 2 = 200$$

$\Rightarrow$  Ans - (A)

**Question 91**

Volume of a cylinder is 2310 cubic cm. If circumference of its base is 44 cm, find the curved surface area of the cylinder?

- A 660 sq cm
- B 1320 sq cm
- C 1980 sq cm
- D 330 sq cm

**Answer: A**

**Explanation:**

Let radius of base of cylinder =  $r$  cm and height =  $h$  cm

$$\text{Circumference of base} = 2\pi r = 44$$

$$\Rightarrow 2 \times \frac{22}{7} \times r = 44$$

$$\Rightarrow r = 44 \times \frac{7}{44} = 7 \text{ cm}$$

$$\text{Now, volume of cylinder} = \pi r^2 h = 2310$$

$$\Rightarrow \frac{22}{7} \times (7)^2 \times h = 2310$$

$$\Rightarrow 22 \times 7 \times h = 2310$$

$$\Rightarrow h = \frac{2310}{154} = 15 \text{ cm}$$

$$\therefore \text{Curved Surface area of cylinder} = 2\pi r h$$

$$= 44 \times 15 = 660 \text{ cm}^2$$

**Question 92**

A bank offers 5% compound interest per half year. A customer deposits Rs. 3200 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 976
- B Rs 242
- C Rs 488
- D Rs 122

**Answer: C**

**Explanation:**

Principal = Rs. 3,200 and Rate = 5%

Amount after 6 months =  $3200 \times \frac{105}{100} = Rs.3360$

Principal for next 6 months = Rs.3360+Rs.3200 = Rs.6560.

Amount after another 6 months =  $6560 \times \frac{105}{100} = Rs.6888$

Total interest received in 1 year = Rs.6888 - (Rs.3200+Rs.3200) = Rs.488.

**Question 93**

By increasing the price of entry ticket to a fair in the ratio 11:16, the number of visitors to the fair has decreased in the ratio 19:9. In what ratio has the total collection increased or decreased?

- A decreased in the ratio 209:144
- B increased in the ratio 144:209
- C increased in the ratio 99:304
- D decreased in the ratio 304:99

**Answer: A**

**Explanation:**

Let cost of original ticket = Rs 11 and and number of visitors = 190

=> Original revenue =  $11 \times 190 = Rs 2090$

After increase in cost of ticket

New cost of ticket = Rs 16 and number of visitors = 90

=> New Revenue =  $16 \times 90 = Rs 1440$

Since, new revenue is smaller than original revenue, thus total collection has decreased.

∴ Decrease of total collection ratio =  $\frac{2090}{1440} = 209 : 144$

=> Ans - (A)

**Question 94**

What is the value of  $\cos 4\pi/3$ ?

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

D  $-\sqrt{3}/2$

Answer: A

Explanation:

Expression :  $\cos 4\pi/3$

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

$$= -\cos\left(\frac{\pi}{3}\right) = -\frac{1}{2}$$

=> Ans - (A)

## SSC CHSL Important Questions and Answers (Download PDF)

Question 95

$\tan 3A$  is equal to

A  $3\tan A - \tan^3 A / (1 - 3\tan^2 A)$

B  $3\tan A + \tan^3 A / (1 - 3\tan^2 A)$

C  $3\tan A - \tan^3 A / (1 + 3\tan^2 A)$

D  $3\tan A + \tan^3 A / (1 + 3\tan^2 A)$

Answer: A

Explanation:

Expression :  $\tan(3A)$

$$= \frac{\sin(3A)}{\cos(3A)} = \frac{\sin(2A+A)}{\cos(2A+A)}$$

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

Using,  $\sin(2x) = 2\sin x \cos x$  and  $\cos(2x) = \cos^2 x - \sin^2 x$

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

Taking  $\sin A$  common from numerator and  $\cos A$  from denominator,

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

$$= \tan A \frac{3\cos^2 A - \sin^2 A}{\cos^2 A - 3\sin^2 A}$$

Dividing both numerator and denominator by  $\cos^2 A$ , we get :

$$= \tan A \frac{3 - \tan^2 A}{1 - 3\tan^2 A}$$

$$= \frac{3\tan A - \tan^3 A}{1 - 3\tan^2 A}$$

=> Ans - (A)

Question 96

$\sin A / (1 + \cos A)$  is equal to

A  $(\operatorname{cosec} A - \cot A)$

B  $(\operatorname{cosec} A + \cot A)$

C  $\sqrt{(\operatorname{cosec} A - \cot A)}$

D  $\sqrt{[(\operatorname{cosec}A + \cot A)]}$

**Answer: A**

**Explanation:**

Expression :  $\frac{\sin A}{1 + \cos A}$

Multiplying numerator and denominator by  $(1 - \cos A)$

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

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

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

$$= \operatorname{cosec} A - \cot A$$

=> Ans - (A)

**Question 97**

Refer the below data table and answer the following question.

	Boys	Girls
Medical	30	80
Engineering	80	40

What percent students who chose Engineering are girls ?

A 33.33

B 17.39

C 66.67

D 50

**Answer: A**

**Explanation:**

Number of girls who chose engineering = 40

Total number of engineers =  $80 + 40 = 120$

=> Percent of the girls who choose engineering =  $\frac{40}{120} \times 100$

$$= \frac{100}{3} \approx 33.33\%$$

=> Ans - (A)

## SSC CHSL Study Material

**Question 98**

Refer the below data table and answer the following question.

	Cumulative production
January	360
February	620
March	840
April	1510
May	1800
June	2250

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

- A 740
- B 890
- C 3310
- D 960

**Answer:** D

**Explanation:**

Number of cars produced in :

January = 360

February = 620 - 360 = 260

March = 840 - 620 = 220

April = 1510 - 840 = 670

May = 1800 - 1510 = 290

June = 2250 - 1800 = 450

=> Number of cars that were manufactured in the month of the April and may = 670 + 290 = 960

**Question 99**

Refer the below data table and answer the following question.

Day of the week	Distance jogged (in km)
Monday	1.5
Tuesday	0.5
Wednesday	2
Thursday	4.5
Friday	4
Saturday	4
Sunday	4

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

- A 1690 calories
- B 1590 calories
- C 1540 calories
- D 1640 calories

**Answer:** D

**Explanation:**

Total distance jogged in entire week

= 1.5 + 0.5 + 2 + 4.5 + 4 + 4 + 4 = 20.5 km

Calories burned after jogging 5 km = 400 calories

=> Calories burned after jogging 20.5 km =  $\frac{400}{5} \times 20.5$

= 80 × 20.5 = 1640 calories

=> Ans - (D)

Question 100

Refer the below data table and answer the following question.

Items	Yearly expence in lakhs
Raw Materilas	12
Labour	8
Rent	5
Interest	3
Taxes	1

Labour and Interest are what percent of total expenses ?

- A 20.34 percent
- B 13.09 percent
- C 34.84 percent
- D 37.93 percent

Answer: D

**Explanation:**

Yearly experience in labour and interest (in lakhs) = 8 + 3 = 11

Total expenses (in lakhs) = 12 + 8 + 5 + 3 + 1 = 29

$$\Rightarrow \text{Required \%} = \frac{11}{29} \times 100$$

$$= \frac{1100}{29} \approx 37.93\%$$

$\Rightarrow$  Ans - (D)

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