



## **2017 SSC CGL 19 Aug Shift-3**

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# Reasoning

## Instructions

For the following questions answer them individually

### Question 1

Select the related word from the given alternatives.

Night : Stars :: Day : ?

- A Sun
- B Blue
- C Work
- D Planet

Answer: A

### Explanation:

Expression : Night : Stars :: Day : ?

Star appear in the night in the same way as the **sun** appear in the day.

=> Ans - (A)

## SSC CGL Free Mock Test

### Question 2

Select the related letters from the given alternatives.

BEH : KNQ :: FIL : ?

- A ONM
- B NLJ
- C ORU
- D OMK

Answer: C

### Explanation:

BEH : KNQ

The pattern followed is :

B	E	H
(+9)	(+9)	(+9)
K	N	Q

Similarly, for FIL :

F	I	L
(+9)	(+9)	(+9)
O	R	U

=> Ans - (C)

### Question 3

Select the related number from the given alternatives.

6 : -3 :: -18 : ?

- A 3
- B 9
- C -9
- D -6

**Answer:** B

**Explanation:**

Expression :  $6 : -3 :: -18 : ?$

The pattern is =  $n : \frac{n}{-2}$

Eg =  $6 : \frac{6}{-2} = 6 : -3$

Similarly,  $\frac{-18}{-2} = 9$

=> Ans - (B)

**Question 4**

Select the odd word from the given alternatives.

- A Cyan
- B Crimson
- C Indigo
- D Sky blue

**Answer:** B

**Explanation:**

Cyan, Indigo and sky blue are shades of blue color while Crimson is a shade of red colour.

=> Ans - (B)

## SSC CGL Previous Papers (DOWNLOAD PDF)

**Question 5**

Select the odd letters from the given alternatives.

- A JPV
- B UIO
- C KQW
- D LRX

**Answer:** B

**Explanation:**

(A) : J (+6 letters) = P (+6 letters) = V

(B) : U (-12 letters) = I (+6 letters) = O

(C) : K (+6 letters) = Q (+6 letters) = W

(D) : L (+6 letters) = R (+6 letters) = X

=> Ans - (B)

**Question 6**

Select the odd number from the given alternatives.

- A 8
- B 27
- C 100
- D 125

**Answer:** C

**Explanation:**

$$8 = 2^3$$

$$27 = 3^3$$

$$125 = 5^3$$

100 is not a perfect cube, hence it is the odd one out.

=> Ans - (C)

**Question 7**

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

employ, oyster, error, ornate, tennis, ?

- A neptune
- B nature
- C terminate
- D isomer

**Answer:** D

**Explanation:**

Expression : employ, oyster, error, ornate, tennis, ?

The pattern followed is that the next word is formed from the last two letters of the previous word.

Eg : employ -> oyster -> error -> ornate -> tennis

Thus, the next word will start with 'is' and among the options, next term = isomer

=> Ans - (D)

## SSC CGL Tier-2 Previous Papers PDF

**Question 8**

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

XXXXXO, XXXXOX, XXXOXX, XXOXXX, XOXXXX, ?

- A OXXXXX
- B OXXXXO

C OXXXXX

D XXXXXX

**Answer: A**

**Explanation:**

Expression : XXXXO, XXXOX, XXXOX, XXOXX, XOXXX, ?

The position of 'O' is shifted one place to the left.

=> Missing term = OXXXXX

=> Ans - (A)

**Question 9**

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

**-7/4, -1, -0.25, ?, 5/4, 2**

A 0.5

B 0.75

C 0.25

D 1

**Answer: A**

**Explanation:**

The pattern followed is that the  $\frac{3}{4} = 0.75$  is added to each number.

$$-1.75 + 0.75 = -1$$

$$-1 + 0.75 = -0.25$$

$$-0.25 + 0.75 = \mathbf{0.5}$$

$$0.5 + 0.75 = 1.25$$

$$1.25 + 0.75 = 2$$

=> Ans - (A)

**Question 10**

**Dhruv's birthday is on Sunday 28th May. On what day of the week will be Sahil's Birthday in the same year if Sahil was born on 19th October?**

A Saturday

B Wednesday

C Thursday

D Sunday

**Answer: C**

**Explanation:**

According to the question, 28th May is Sunday

$$\text{Number of days left in May} = 31 - 28 = 3$$

$$\text{Similarly, odd days from 28th May till 19th October} = (3 + 30 + 31 + 31 + 30 + 19) \% 7$$

$$= 3 + 2 + 3 + 3 + 2 + 5 = 18$$

Now, dividing 18 by 7, remainder = 4

Thus, day on 19th October = Sunday (+4) = Thursday

=> Ans - (C)

## SSC CGL Important Questions PDF

### Question 11

The weights of 4 boxes are 30, 20, 60 and 70 kilograms. Which of the following cannot be the total weight, in kilograms, of any combination of these boxes and in a combination a box can be used only once?

- A 180
- B 150
- C 120
- D 170

**Answer:** D

#### **Explanation:**

Weight of the boxes = 30, 20, 60 and 70 kilograms

(A) :  $180 = 30 + 20 + 60 + 70 = 180$

(B) :  $150 = 20 + 60 + 70 = 150$

(C) :  $120 = 30 + 20 + 70 = 120$

(D) :  $170 =$  not possible

=> Ans - (D)

### Question 12

From the given words, select the word which cannot be formed using the letters of the given word.

**PROXIMAL**

- A MOLAR
- B AXIOM
- C REALM
- D APRIL

**Answer:** C

#### **Explanation:**

The word PROXIMAL does not contain any 'E' and thus the word 'Realm' cannot be formed.

=> Ans - (C)

### Question 13

If PONDERS is coded as ONMCDQR, then how will MAT be coded as?

- A LZS
- B OLJ
- C AEG

D LDZ

**Answer:** A

**Explanation:**

PONDERS is coded as ONMCDQR

The pattern followed is :

P	O	N	D	E	R	S
(-1)	(-1)	(-1)	(-1)	(-1)	(-1)	(-1)
O	N	M	C	D	Q	R

Similarly, for MAT :

M	A	T
(-1)	(-1)	(-1)
L	Z	S

=> Ans - (A)

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**Question 14**

In a certain code language, '+' represents 'x', '-' represents '+', 'x' represents '÷' and '÷' represents '-'. What is the answer to the following question?

$$80 \times 16 \div 4 + 2 - 8 = ?$$

A 11

B 64

C 30

D 5

**Answer:** D

**Explanation:**

$$\text{Expression} = 80 \times 16 \div 4 + 2 - 8 = ?$$

$$\equiv 80 \div 16 - 4 \times 2 + 8$$

$$= 5 - 8 + 8 = 5$$

=> Ans - (D)

**Question 15**

If  $35 \% 31 = 12$ ,  $92 \% 30 = 14$  then what is the value of  $15 \% 24 = ?$

A 12

B 25

C 33

D 28

**Answer:** A

**Explanation:**

The pattern followed is that all the digits in the numbers are added.

$$\text{Eg : } 35 \% 31 = 3 + 5 + 3 + 1 = 12$$

and  $92 \% 30 = 9 + 2 + 3 + 0 = 14$

Similarly,  $15 \% 24 = 1 + 5 + 2 + 4 = 12$

=> Ans - (A)

### Question 16

Select the missing number from the given responses

111	314	205
34	39	102
?	275	103

A 172

B 75

C 77

D 170

Answer: C

#### Explanation:

In the first column, the number at the top is obtained by adding the other two.

Eg =  $39 + 275 = 314$

and  $102 + 103 = 205$

Similarly,  $34 + x = 111$

=>  $x = 111 - 34 = 77$

=> Ans - (C)

## General Science Notes for SSC CGL

### Question 17

X and Y both start from a same point. X walks 17 m West, then turns to his right and walks 13 m. At the same time, Y walks 9 m North, then turns East and walks 7 m, then turns to his left and walks 4 m. Where is Y now with respect to the position of X?

A 24 m West

B 10 m East

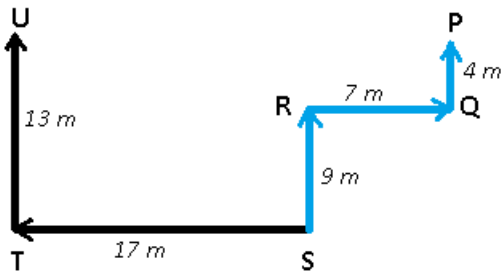
C 10 m West

D 24 m East

Answer: D

#### Explanation:





Let both X and Y start from point S. X's path is shown by black and Y's by blue.

X travels 17 m west and reaches T, then takes right turn and reaches point U by travelling 13 m.

Similarly, Y travels north for 9 m and reaches R, then turns east for 7 m and finally stops at point P.

Thus,  $UP = 17 + 7 = 24$  km

$\therefore$  Y is 24 m to the east of X.

$\Rightarrow$  Ans - (D)

### Question 18

In the question a statement is given, followed by two arguments, I and II. You have to consider the statement to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given arguments, if any, is a strong argument.

**Statement :** Should songs be eliminated from Indian movies.

**Argument I :** Yes, Hollywood movies are hit despite having no songs.

**Argument II :** No, songs help increase length of the movie.

- A if only argument I is strong.
- B if only argument II is strong.
- C if both I and II are strong.
- D if neither I nor II is strong.

**Answer:** D

### Explanation:

if Hollywood movies are hit without songs, then it does not mean that eliminating songs from Bollywood movies will result in a hit.

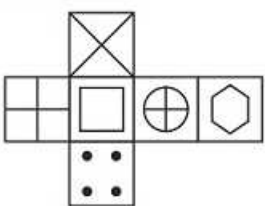
Also, the length of a movie does not decide the success of a movie, thus second argument is also weak.

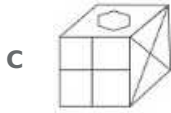
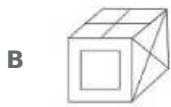
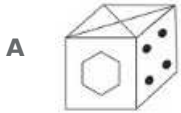
Thus, neither I nor II is strong.

$\Rightarrow$  Ans - (D)

### Question 19

Which of the following cube in the answer figure cannot be made based on the unfolded cube in the question figure?





**Answer:** A

**Explanation:**

When we fold the given figure, the side with a 'square' sign will become the base of the cube and the side with only 'hexagon' sign will become top, and thus they will face each other. Similarly, the sides which will face each other will be :



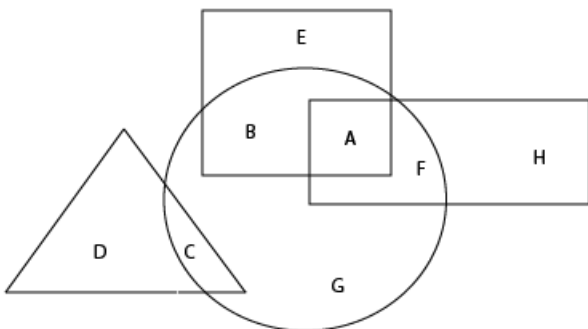
Since, the opposite sides cannot be adjacent in the cube, thus the cube in the first option is not possible.

=> Ans - (A)

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**Question 20**

In the following figure, square represents Pharmacists, triangle represents singers, circle represents Surgeons and rectangle represents Mothers. Which set of letters represents surgeons who are either mothers or singers?



A E,D,G

B A,F,C

C A,D,C

D H,B,C

**Answer:** B

**Explanation:**

Surgeons are represented by =  $A+B+C+F+G$

Mothers =  $A+F+H$

Singers =  $C+D$

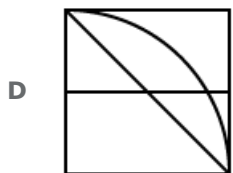
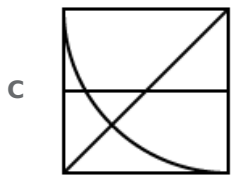
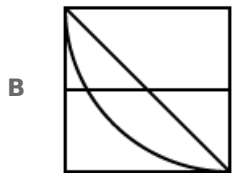
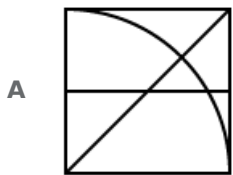
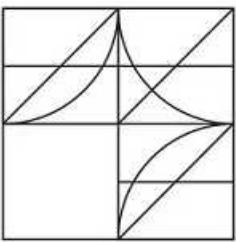
Now, surgeons who are either mothers or singers = Surgeons  $\cap$  (mothers  $\cup$  singers)

=  $A,F,C$

=> Ans - (B)

**Question 21**

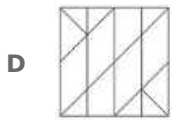
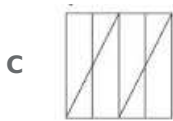
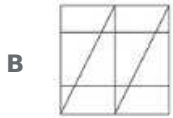
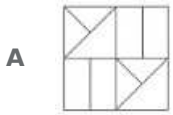
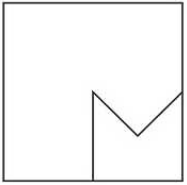
Which answer figure will complete the pattern in the question figure



**Answer:** A

Question 22

From the given answer select in one in which the question figure is hidden / embedded



Answer: A

Explanation:

The question figure is embedded in the following figure :

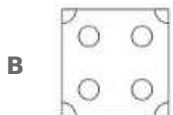
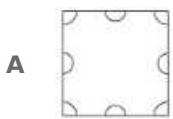
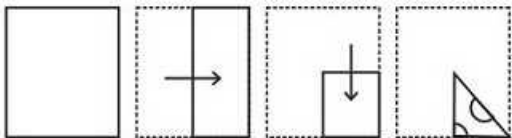


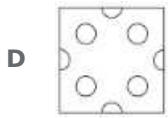
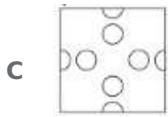
=> Ans - (A)

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Question 23

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.

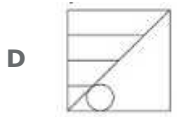
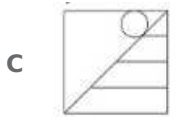
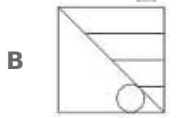
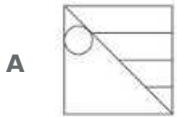
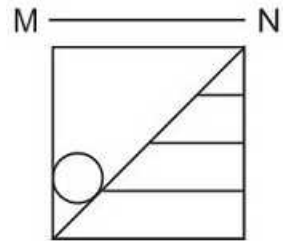




Answer: D

**Question 24**

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

**Explanation:**

A horizontal mirror is placed, so the objects will turn upside down in the mirror image (eg - an object at top right will appear at bottom right). So, the right diagonal will appear as left diagonal in the mirror image, and thus last two options are eliminated.

Also, the circle at bottom left will appear at top left, so the second option is not possible.

=> Ans - (A)

### Question 25

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 'K' can be represented by 42, 34 etc and T can be represented by 76, 88 etc. Similarly, you have to identify the set for the word 'RIDE'.

Matrix - I

	0	1	2	3	4
0	G	K	H	A	M
1	D	C	F	E	G
2	J	G	L	D	J
3	I	H	A	E	K
4	B	C	K	E	G

Matrix - II

	5	6	7	8	9
5	U	O	Y	V	O
6	T	V	Q	O	T
7	V	Z	P	S	W
8	O	Y	P	Z	R
9	O	V	V	V	Z

A 30,23,85,66

B 89,30,10,13

C 10,24,68,78

D 10,11,88,86

**Answer: B**

**Explanation:**

(A) : 30,23,85,66 = IDOV

(B) : 89,30,10,13 = **RIDE**

(C) : 10,24,68,78 = DJOS

(D) : 10,11,88,86 = DCZY

=> Ans - (B)

## SSC Free Preparation App

### General Awareness

**Instructions**

For the following questions answer them individually

### Question 26

A \_\_\_\_\_ deficit is financed by net capital flows from the rest of the world, thus by a capital account surplus.

A Current Account

B Savings Account

C Capital Account

D Asset Account

**Answer: A**

## Daily Free SSC Practice Set

**Question 27**

\_\_\_\_\_ is defined as the output per unit of variable input

- A Marginal product
- B Production function
- C Total product
- D Average product

**Answer:** D

**Question 28**

"Taxes on lands and buildings" is listed in the \_\_\_\_\_ list given in the Seventh Schedule in the Constitution of India.

- A Union
- B State
- C Global
- D Concurrent

**Answer:** B

**Question 29**

There are total \_\_\_\_\_ parliamentary seats (Rajya Sabha constituency) in Maharashtra.

- A 11
- B 19
- C 10
- D 1

**Answer:** B

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**Question 30**

Akbar was \_\_\_\_\_ years old when he became emperor.

- A 16
- B 19
- C 13
- D 10

**Answer:** C

**Question 31**

Sultan Mahmud was a ruler of\_\_\_\_\_.

- A Persia
- B Ghazni
- C Lahore
- D Arab

**Answer:** B

**Question 32**

As the river enters the plain it twists and turns forming large bends known as \_\_\_\_\_.

- A crooks
- B flections
- C rounds
- D meanders

**Answer:** D

## **SSC CHSL Previous Question papers (download pdf)**

**Question 33**

The method of soil conservation in which stones, grass, soil are used to build barriers along contours and trenches are made in front of the barriers to collect water is called?

- A Mulching
- B Contour barriers
- C Rock dam
- D Terrace farming

**Answer:** B

**Question 34**

In male reproductive system, the testes are situated outside the abdominal cavity within a pouch called \_\_\_\_\_.

- A Glands
- B Scrotum
- C Testicular Lobules
- D Seminiferous Tubules

**Answer:** B

**Question 35**

Which of the following is not among the 3 main classes of Algae?

- A Chlorophyceae



- B Rhodophyceae
- C Phaeophyceae
- D Gymnosperms

**Answer:** D

## SSC CPO Previous Question papers (download pdf)

### Question 36

**Sycon (Scypha), Spongilla (Fresh water sponge) and Euspongia (Bath sponge) are examples of which Phylum?**

- A Coelenterata
- B Platyhelminthes
- C Ctenophora
- D Porifera

**Answer:** D

### Question 37

**If the force applied on the object is in the direction opposite to the direction of motion, the speed of the object \_\_\_\_\_.**

- A increases
- B stops
- C decreases
- D no effect

**Answer:** C

### Question 38

**The SI unit of acceleration is \_\_\_\_\_.**

- A meters per seconds squared
- B meters per second
- C seconds per meter
- D seconds per meter squared

**Answer:** A

## SSC GD Previous Question papers (download pdf)

### Question 39

**In Microsoft Excel, the \_\_\_\_\_ () function returns the smallest value among the values passed as arguments.**

- A LEAST
- B LESS
- C MIN
- D LOW

**Answer: C**

**Question 40**

**Fire extinguishers emit which gas?**

- A Carbon monoxide
- B Chlorine
- C Carbon dioxide
- D Nitrogen

**Answer: C**

**Question 41**

**What is formed when Magnesium is burnt?**

- A Baking Soda
- B Calcium Carbonate
- C Ash
- D Vinegar

**Answer: C**

## **SSC MTS Previous Question papers (download pdf)**

**Question 42**

**The salt concentration (measured as salinity in parts per thousand), is less than \_\_\_\_\_ % in inland waters.**

- A 5
- B 20
- C 50
- D 75

**Answer: A**

**Question 43**

**\_\_\_\_\_ scheme launched by the Central Government aims to improve rural livelihoods and promote rural development and strengthen the Panchayati Raj across the country.**

- A Pradhan Mantri Fasal Bima Yojana

- B** Gram Uday Se Bharat Uday Abhiyan
- C** Stand up India scheme
- D** National RU URBAN Mission

**Answer:** B

**Question 44**

**Who discovered Photon?**

- A** George Crum
- B** Albert Einstein
- C** Henry Cavendish
- D** Humphry Davy

**Answer:** B

## **SSC Stenographer Previous Question papers (download pdf)**

**Question 45**

**Who is the winner of 2016-17 Premier League (Football)?**

- A** Leicester City
- B** Manchester City
- C** Chelsea
- D** Manchester United

**Answer:** C

**Question 46**

**Gol Gumbaz was designed by?**

- A** Ustad Ahmad of Lahouri
- B** George Wittet
- C** Henry Irwin
- D** Yaqut of Dabul

**Answer:** D

**Question 47**

**Which of the following was the winner of the Grammy Awards 2016 "Country Song of the Year"?**

- A** Chances Are
- B** Girl Crush
- C** Hold My Hand

**D** Traveller

**Answer:** B

## SSC CHSL Free Mock Test

### Question 48

**A]** The author of the novel 'Bird Box' is Victor LaValle.

**B]** The author of the novel 'The Devil in Silver' is Josh Malerman.

**C]** The author of the novel 'Fellside' is Victor LaValle.

Which of the statements given above are not correct?

**A** A and B

**B** B and C

**C** A and C

**D** A, B and C

**Answer:** D

### Question 49

In April 2017, to address growing unemployment, which country has abolished the 457 Visa Programme used by thousands of temporary foreign workers, a majority of them Indians?

**A** USA

**B** Canada

**C** Australia

**D** UK

**Answer:** C

### Question 50

SAARC Agriculture Centre (SAC) is based in which city?

**A** Islamabad

**B** Dhaka

**C** Colombo

**D** Kathmandu

**Answer:** B

## SSC MTS Free Mock Test

### English

#### Instructions

For the following questions answer them individually

**Question 51**

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'.

He was such a (a:/ wonderful person (b:/ into so many ways. (c:/No Error (d:

- A 1
- B 2
- C 3
- D 4

Answer: C

## SSC CPO Free Mock Test

**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'.

The magician placed the ball (a:/ underneath of his hat and (b:/ made a mystic sign above it. (c:/No Error (d:

- A 1
- B 2
- C 3
- D 4

Answer: B

**Question 53**

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.

Our nation's \_\_\_\_\_ into another country's war could pull us into the crisis.

- A intervention
- B intention
- C perfection
- D invention

Answer: A

**Question 54**

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.

As a fitness \_\_\_\_\_, Deepti is always preaching to her friends about the importance of working out.

- A enthusiasm
- B enthusiast
- C enthusiastic
- D enthusiastically

**Answer: B**

## SSC GD Free Mock Test

### Question 55

In the following question, out of the four alternatives, select the word similar in meaning to the word given.

#### Phonetic

- A Mute
- B Reticent
- C Silent
- D Spoken

**Answer: D**

### Question 56

In the following question, out of the four alternatives, select the word similar in meaning to the word given.

#### To Astound

- A To Bewilder
- B To Tranquil
- C To Placid
- D To Serene

**Answer: A**

### Question 57

In the following question, out of the four alternatives, select the word opposite in meaning to the word given.

#### Disdain

- A Antipathy
- B Admiration
- C Derision
- D Scorn

**Answer: B**

## SSC Stenographer Free Mock Test

### Question 58

In the following question, out of the four alternatives, select the word opposite in meaning to the word given.

**Canonical**

- A Approved
- B Official
- C Sanctioned
- D Unorthodox

**Answer: D**

### Question 59

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

**It goes without saying**

- A To Silently bear the injustice
- B Something which is implied to be obvious
- C There is no point in doing something after you are told to do it
- D Break long relationship with someone

**Answer: B**

### Question 60

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

**To let someone off**

- A To let someone fall
- B To leave someone in his present state
- C To release someone from blame
- D To refuse to answer

**Answer: B**

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### Question 61

In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select "no improvement".

May be they (has had) a fight.

- A were had

- B was having
- C were having
- D no improvement

**Answer:** C

**Question 62**

In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select "no improvement".

We wouldn't want them to think we (doing) anything immoral.

- A was doing
- B were doing
- C done
- D no improvement

**Answer:** B

**Question 63**

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

Excessively lengthy speech

- A Concision
- B Verbiage
- C Curt
- D Succinct

**Answer:** B

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**Question 64**

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

An ornamented staff carried by rulers on ceremonial occasions as a symbol of sovereignty

- A Spectacle
- B Receptacle
- C Sceptre
- D Zephyr

**Answer:** C



**Question 65**

In the following question, four words are given out of which one word is correctly spelt. Select the correctly spelt word.

- A Contusion
- B Contution
- C Cuntusion
- D Cuntution

**Answer:** A

**Question 66**

In the following question, four words are given out of which one word is correctly spelt. Select the correctly spelt word.

- A Scemitaras
- B Scimitars
- C Scimetars
- D Scemetars

**Answer:** B

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**Question 67**

The question below consists of a set of labelled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph.

Three times this was

X-only be compared to the deepest notes of thunder

Y-shook with the noise, that can

Z-repeated, and each time the earth

- A ZXY
- B YZX
- C ZYX
- D YXZ

**Answer:** C

**Question 68**

The question below consists of a set of labelled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph.

The causes and their

X-in the same series

Y-one order, they stand

Z-effects belong to the

- A ZXY
- B YZX
- C YXZ
- D ZYX



**Answer:** D

**Question 69**

In the following question, a sentence has been given in Active/Passive voice. Out of the four alternatives suggested, select the one which best expresses the same sentence in Passive/Active voice.

**Sunita will bake two dozen cupcakes for the bake sale.**

- A For the bake sale, two dozen cookies will be baked by Sunita.
- B For the bake sale, two dozen cookies is baked by Sunita.
- C Baking of two dozen cookies by Sunita will be done for the bake sale.
- D Baking of two dozen cookies by Sunita is done for the bake sale.

**Answer:** A

## Daily Current Affairs PDF for SSC

**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 expresses the same sentence in Indirect/Direct speech.

**My mother said to my father, "I am very busy now."**

- A My mother told my father that I am very busy now.
- B My mother told my father that she is very busy then.
- C My mother told my father that she was very busy then.
- D My mother told my father that I was very busy now.

**Answer:** C

**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.

This was enough \_\_\_\_ (1) \_\_\_\_ the book store-owner-turned librarian Husain to asses its valuable contents. "The preface of the book read: 'painters \_\_\_\_ (2) \_\_\_\_ technical knowledge to paint, but lack to understand nature, \_\_\_\_ (3) \_\_\_\_ they fail to create a masterpiece," points out Husain, adding, "All I \_\_\_\_ (4) \_\_\_\_ in my life is about books and from books. The grand library \_\_\_\_ (5) \_\_\_\_ the palace is a cache of knowledge."

**Question 71**

(1)

- A for
- B of



C to

D from

**Answer: A**

**Question 72**

(2)

A has

B has had

C have

D to have

**Answer: C**

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**Question 73**

(3)

A if

B that

C hence

D this

**Answer: C**

**Question 74**

(4)

A learning

B learned

C to learn

D learns

**Answer: B**

**Question 75**

(5)

A from

B at

C to

D off

Answer: B

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### Mathematics

#### Instructions

For the following questions answer them individually

#### Question 76

What least number must be subtracted from 3401, so that the sum is completely divisible by 11?

- A 3
- B 1
- C 2
- D 0

Answer: C

#### Explanation:

$3401/11 = 309 \frac{2}{11}$  so 20 must be subtracted from 3401

So the answer is option C.

## SSC CGL Free Mock Test

#### Question 77

M is thrice as good as workman as N and together they finish a piece of work in 30 days. In how many days will M alone finish the work?

- A 50
- B 40
- C 60
- D 45

Answer: B

#### Explanation:

Let N's efficiency = 1 unit/day

M's efficiency would be = 3 units/day

In 1 day they can do 4 units of work

In 30 days then can do  $30 \times 4 = 120$  units of work

M alone finish the work in  $120/3$  days = 40 days

So the answer is option B.

#### Question 78

What is the area (in sq cm) of a regular hexagon of side 14 cm?

- A  $147\sqrt{3}$

- B  $441\sqrt{3}$
- C  $196\sqrt{3}$
- D  $294\sqrt{3}$

**Answer:** D

**Explanation:**

Area of a Regular Hexagon =  $(3\sqrt{3}/2)s^2 = (3\sqrt{3}/2)(14)^2 = 294\sqrt{3}$

So the answer is option D.

**Question 79**

If 2 T-shirts are offered free on purchase of 3 T-shirts, what is the effective discount (in %) on each T-shirt?

- A 40
- B 20
- C 30
- D 50

**Answer:** A

**Explanation:**

Let cost price of 1 T-shirt = Rs.  $x$

Cost price of 5 T-shirts =  $5 \times x = Rs.5x$

If 2 T-shirts are offered free on purchase of 3 T-shirts,  $\Rightarrow$  Cost of 3 T-shirts =  $3 \times x = Rs.3x$

$\Rightarrow$  Effective discount =  $\frac{5x-3x}{5x} \times 100$

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

$\Rightarrow$  Ans - (A)

## SSC CGL Previous Papers (DOWNLOAD PDF)

**Question 80**

The ratio of present ages of R and S is 11:17. Before 11 years the ratio of their ages was 11:20. What is R's present age (in years)?

- A 51
- B 33
- C 22
- D 40

**Answer:** B

**Explanation:**

Let present ages of R and S be  $11x$  and  $17x$  respectively

According to ques,

$\Rightarrow \frac{11x-11}{17x-11} = \frac{11}{20}$

$$\Rightarrow \frac{x-1}{17x-11} = \frac{1}{20}$$

$$\Rightarrow 20x - 20 = 17x - 11$$

$$\Rightarrow 20x - 17x = 20 - 11$$

$$\Rightarrow 3x = 9$$

$$\Rightarrow x = \frac{9}{3} = 3$$

$\therefore$  R's present age =  $11 \times 3 = 33$  years

$\Rightarrow$  Ans - (B)

### Question 81

The average marks of 40 students in an examination was 25. It was later found that the marks of one student had been wrongly entered as 73 instead of 37. What is the value of correct average?

A 24.3

B 24.1

C 24.5

D 24.7

**Answer:** B

### Explanation:

Avg marks of 40 students = 25

total marks =  $25 \times 40 = 1000$

But the marks of one student had been wrongly entered as 73 instead of 37

now, total marks =  $1000 - 73 + 37 = 964$

new average =  $964/40 = 24.1$

So the answer is option B.

### Question 82

A wholesaler sells a jacket to a retailer at a profit of 5% and the retailer sells it to a customer at a profit of 10%. If the customer pays Rs. 4158, what had it cost (in Rs) to the wholesaler?

A 3500

B 3400

C 3300

D 3600

**Answer:** D

### Explanation:

$$\frac{110}{100} \times \frac{105}{100} \times CP = 4158$$

$$\frac{11550}{10000} \times CP = 4158$$

$$CP = 3600$$

So the answer is option D.

**Question 83**

A number is increased by 84, it becomes 107% of itself. What is the number?

- A 600
- B 900
- C 1500
- D 1200

**Answer:** D

**Explanation:**

84 = 7% of that number

1% = 12

100% = 1200

So the answer is option D.

**Question 84**

If a boat goes a certain distance at 30 km/hr and comes back the same distance at 60 km/hr. What is the average speed (in km/hr) for the total journey?

- A 45
- B 50
- C 40
- D 35

**Answer:** C

**Explanation:**

$$\text{average speed} = \frac{2ab}{a+b} = \frac{2(30)(60)}{30+60} = 40$$

So the answer is option C.

**Question 85**

An amount fetched a total simple interest of Rs. 3200 at the rate of 6.25 %/yr in 4 years. What is the amount (in Rs)?

- A 13800
- B 11800
- C 12800
- D 14800

**Answer:** C

**Explanation:**

$$I = \frac{PTR}{100}$$

$$3200 = \frac{P \cdot 4 \cdot 6.25}{100}$$

$$3200 = \frac{25 \cdot P}{100}$$

$$P = 12800$$

So the answer is option C.

## SSC CGL Important Questions PDF

### Question 86

If  $x/2 - [4(15/2 - x/3)]/3 = -x/18$ , then what is the value of  $x$ ?

- A -10
- B 9/8
- C 10
- D -9/8

**Answer:** C

#### Explanation:

$$x/2 - [4(15/2 - x/3)]/3 = -x/18$$

$$x/2 - [30 - 4x/3]/3 = -x/18$$

$$x/2 - 10 + 4x/9 = -x/18$$

$$x/2 + 4x/9 + x/18 = 10$$

$$(9x + 8x + x)/18 = 10$$

$$x = 10$$

So the answer is option C.

### Question 87

If  $a^3 + b^3 = 152$  and  $a + b = 8$ , then what is the value of  $ab$ ?

- A 2
- B 11
- C -10
- D 15

**Answer:** D

#### Explanation:

$$a^3 + b^3 = (a + b)^3 - 3ab(a + b)$$

$$152 = (8)^3 - 3ab(8)$$

$$152 = 512 - 24ab$$

$$24ab = 360$$

$$ab = 15$$

So the answer is option D.

### Question 88

A fraction is greater than its reciprocal by  $9/20$ . What is the fraction?

- A 5/4
- B 4/5



C  $3/4$

D  $4/3$

**Answer:** A

**Explanation:**

Let that fraction be  $\frac{1}{x}$

$$\left(\frac{1}{x}\right) = x + 9/20$$

$$\Rightarrow 20x^2 + 9x - 20 = 0$$

$$\Rightarrow \left(x + \frac{25}{20}\right)\left(x - \frac{16}{20}\right) = 0$$

$$\Rightarrow \left(x + 5/4\right)\left(x - 4/5\right) = 0$$

$$\Rightarrow x = -5/4 \text{ or } 4/5$$

$$\Rightarrow \text{fraction} = \frac{1}{x} = -4/5 \text{ (or) } 5/4$$

so the answer is option A.

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**Question 89**

**What is the sum of the first 9 terms of an arithmetic progression if the first term is 7 and last term is 55?**

A 219

B 137

C 231

D 279

**Answer:** D

**Explanation:**

$$S_n = \frac{n}{2}(a + l)$$

$$S_9 = \frac{9}{2}(7 + 55) = 279$$

So the answer is option D.

**Question 90**

**What is the reflection of the point (5, -2) in the line  $x = -1$ ?**

A (-7, -2)

B (5, 0)

C (7, -2)

D (5, 2)

**Answer:** A

**Explanation:**

(diagram)

from the diagram answer is (-7, -2)

So the answer is option A.

**Question 91**

Point A divides segment BC in the ratio 4:1. Co-ordinates of B are (6 , 1) and C are (7/2 , 6). What are the co-ordinates of point A?

- A (4 , 3)
- B (4 , 5)
- C (2 , 5)
- D (3 , 5)

**Answer:** B

**Explanation:**

$$(x, y) = \left( \frac{mx_2 + nx_1}{m+n}, \frac{my_2 + ny_1}{m+n} \right)$$

$$(x, y) = \left( \frac{4(7/2) + 1(6)}{4+1}, \frac{4(6) + 1(1)}{4+1} \right)$$

$$(x, y) = (4, 5)$$

So the answer is option B.

## General Science Notes for SSC CGL

**Question 92**

What is the slope of the line parallel to the line passing through the points (5, -1) and (4, -4)?

- A -3
- B -1/3
- C 3
- D 1/3

**Answer:** C

**Explanation:**

$$\text{slope } m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{-4 - (-1)}{4 - 5} = -3$$

slope of the parallel line = m = -3.

So the answer is option C.

**Question 93**

$\Delta XYZ$  is similar to  $\Delta PQR$ . If ratio of Perimeter of  $\Delta XYZ$  and Perimeter of  $\Delta PQR$  is 16:9 and PQ = 3.6 cm, then what is the length(in cm) of XY?

- A 4.8
- B 3.2
- C 6.4
- D 8.6

**Answer:** C

**Explanation:**

For similar triangles, ratio of perimeters = ratio of corresponding sides

$$XY/PQ = 16/9$$

$$XY/3.6 = 16/9$$

$$XY = 6.4$$

So the answer is option C.

#### Question 94

What is the value of  $(1/2) \sec 30^\circ + \sqrt{2} \tan 60^\circ$ ?

A  $(1 + 3\sqrt{2})/\sqrt{3}$

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

C  $\sqrt{3} + 2$

D  $(\sqrt{3} + 2)/2$

Answer: A

#### Explanation:

$(1/2) \sec 30^\circ + \sqrt{2} \tan 60^\circ$

$$= (1/2) (2/\sqrt{3}) + \sqrt{2} (\sqrt{3})$$

$$= 1/\sqrt{3} + \sqrt{6}$$

$$= (1 + 3\sqrt{2})/\sqrt{3}$$

So the answer is option A.

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#### Question 95

$\Delta DEF$  is right angled at E. If  $m\angle D = 45^\circ$ , then what is the value of  $\operatorname{cosec} F \times \cot D$ ?

A  $1/\sqrt{2}$

B 2

C  $1/2$

D  $\sqrt{2}$

Answer: D

#### Explanation:

$$E = 90^\circ \quad D = 45^\circ$$

$$\text{then } F = 45^\circ (\because D + E + F = 180^\circ)$$

$$\operatorname{cosec} F \times \cot D = \operatorname{cosec} 45^\circ * \cot 45^\circ = \sqrt{2} * 1 = \sqrt{2}$$

So the answer is option D.

#### Question 96

If  $\sec \theta = 25/24$ , then what is the value of  $\sin \theta$ ?

A  $24/25$

B  $7/25$

C  $24/7$

D 25/7

**Answer:** B

**Explanation:**

$$\sec \theta = 25/24$$

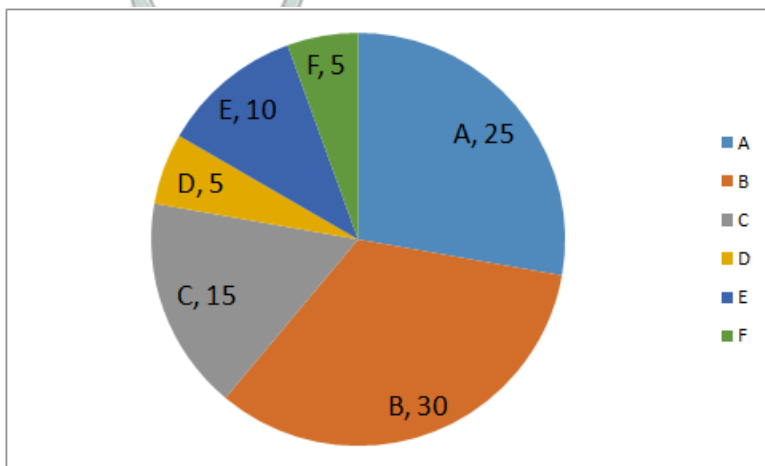
$$\cos \theta = 24/25$$

$$\sin \theta = 1 - \cos^2 \theta = 1 - (24/25)^2 = 7/25$$

So the answer is option B.

**Instructions**

Students from different countries (A, B,C,D, E, F) participated in a certain seminar. The pie chart shows how many students came from each of the six participating countries. Study the diagram and answer the following questions.



**Question 97**

The biggest contingent of students was from which country?

A A

B C

C B

D D

**Answer:** C

**Explanation:**

B with 30 is the biggest contingent

So the answer is option C.

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**Question 98**

What is the angular measure (in degrees) of the sector representing Country A?

A 100

B 25

C 50

D 120

Answer: A

**Explanation:**

the angular measure (in degrees) of the sector representing Country A =  $\frac{25}{90} \times 360 = 100^\circ$

So the answer is option A.

**Question 99**

**By what count (in %) students from Country B at the seminar were more than the students from Country E?**

A 40

B 200

C 20

D 18

Answer: B

**Explanation:**

Students in B = 30

Students in E = 10

B is more than E by  $\frac{30-10}{10} \times 100 = 200$

So the answer is option B.

**Question 100**

**If the cost of total spending on transport for the seminar was Rs 9 lakhs and the cost of hosting the students was Rs 150000 per country then what was the ratio of hosting cost of all the students to that of spending on transport?**

A 2 : 5

B 3 : 2

C 1 : 1

D 1 : 2

Answer: C

**Explanation:**

cost of hosting per student = 150000

cost of hosting for 6 students =  $150000 \times 6 = 900000$

cost of total spending on transport for the seminar was Rs 9 lakhs

ratio =  $900000 : 900000 = 1 : 1$

So the answer is option C.

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