



## SSC CGL 5th March 2020 Shift-3

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# General Intelligence and Reasoning

## Instructions

For the following questions answer them individually

### Question 1

$A + B$  means 'A is the mother of B';

$A - B$  means 'A is the brother of B';

$A \times B$  means 'A is the father of B';

$A \div B$  means 'A is the daughter of B';

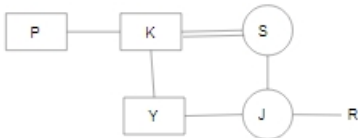
If,  $P - K \times Y - J \div S + R$ , then which of the following statements is NOT correct?

- A J is daughter of P.
- B P is paternal uncle of R.
- C K is husband of S.
- D Y is son of S.

Answer: A

### Explanation:

In the diagram, Circle shows the female, square shows the male, vertical lines show the generation, single horizontal line shows the brother/sister and double horizontal lines show the couple.



From the diagram,  
Option A is correct.

∴ The correct answer is option A.

## SSC CGL Free Mock Test

### Question 2

Select the letter-cluster that can replace the question mark (?) in the following series.

TULG, WRPC, ZOTY, CLXU, ?

- A FJCQ
- B FIBQ
- C FICR
- D GIAQ

Answer: B

### Explanation:

The series follows pattern as,  
 $(T + 3)(U - 3)(L + 4)(G - 4) = WRPC$   
 $(W + 3)(R - 3)(P + 4)(C - 4) = ZOTY$   
 $(Z + 3)(O - 3)(T + 4)(Y - 4) = CLXU$   
 $(C + 3)(L - 3)(X + 4)(U - 4) = FIBQ$

∴ The correct answer is option B.

**Question 3**

Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the odd letter-cluster.

- A PSVX
- B ZCFI
- C JMPS
- D ORUX

**Answer:** A

**Explanation:**

Except option A, remaining all words have difference of 2 letters between in each letter in the word.  
∴ The correct answer is option A.

**Question 4**

Select the option that is related to the third number in the same way as the second number is related to the first number.  
13 : 109 :: 24 : ?

- A 194
- B 201
- C 197
- D 216

**Answer:** C

**Explanation:**

In 13 : 109,  
 $13 \times 8 + 5 = 104 + 5 = 109$   
similarly,  
 $24 \times 8 + 5 = 192 + 5 = 197$   
∴ The correct answer is option C.

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**Question 5**

Select the number that can replace the question mark (?) in the following series.  
45, 47, 53, 65, 85, ?

- A 115
- B 130
- C 145
- D 105

**Answer:** A

**Explanation:**

The series follows pattern as,  
 $45 + 2 = 47$   
 $47 + (2 + 4 = 6) = 53$   
 $53 + (6 + 6 = 12) = 65$

$$65 + (12 + 8 = 20) = 85$$

$$85 + (20 + 10 = 30) = 115$$

∴ The correct answer is option A.

#### Question 6

Select the letter that can replace the question mark (?) in the following series.

A, T, E, U, I, V, O, W, ?, X

A R

B M

C U

D Z

Answer: C

#### Explanation:

There are 2 series,

A, E, I, O, ?

And T, U, V, W, X

The first series has the the group of vowels.

So, next letter is u.

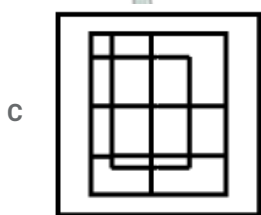
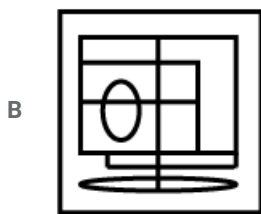
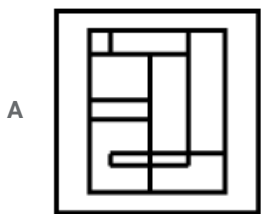
∴ The correct answer is option C.

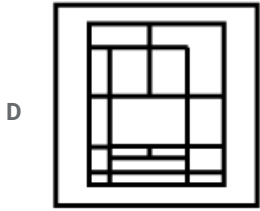
#### Question 7

Select the option in which the given figure X is embedded (rotation is not allowed).



Figure X





Answer: C

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### Question 8

Select the option in which the numbers are related in the same way as the numbers in the given set.  
(8, 7, 407)

- A (12, 8, 555)
- B (10, 8, 576)
- C (11, 12, 450)
- D (9, 6, 303)

Answer: D

#### Explanation:

In (8, 7, 407),

$$8 \times 7^2 + 8 + 7 = 8 \times 49 + 15$$

$$= 392 + 15 = 407$$

Similarly,

In (9, 6, 297),

$$9 \times 6^2 + 9 + 6 = 8 \times 36 + 15$$

$$= 288 + 15 = 303$$

∴ The correct answer is option D.

### Question 9

Which two signs and two numbers should be interchanged to make the given equation correct?

$$28 - 32 \div 2 \times 8 + 34 = 132$$

- A  $\times$  and  $-$ ; 32 and 34
- B  $+$  and  $-$ ; 28 and 32
- C  $+$  and  $-$ ; 32 and 34
- D  $\times$  and  $-$ ; 8 and 2

Answer: C

#### Explanation:

$$28 - 32 \div 2 \times 8 + 34 = 132$$

From the option C,

$$28 + 34 \div 2 \times 8 - 32 = 132$$

$$28 + 17 \times 8 - 32 = 132$$

$$136 - 4 = 132$$

$$132 = 132$$

∴ The correct answer is option C.

**Question 10**

'Criticise' is related to 'Condemmn' in the same wayas 'Solidarity' is related to '.....!'

- A Unity
- B Actrocious
- C Guilty
- D Prosperity

**Answer:** A

**Explanation:**

'Criticise' is related to 'Condemmn' in the same ways 'Solidarity' is related to 'unity'.  
∴ The correct answer is option A.

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**Question 11**

Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

**Statements:**

- 1. No bottle is a pen.
- 2. All jugs are bottles.

**Conclusions:**

- I. Some jugs are pens.
- II. No jug is pen.
- III. Some bottles are jugs.

- A All conclusions I, II and III follow.
- B Only conclusions II and III follow.
- C Conclusion III and either conclusion I or II follow.
- D Either conclusion I or II follows.

**Answer:** B

**Explanation:**



From the Venn diagram,  
Only conclusion II and III follow.  
∴ The correct answer is option B.

Question 12

Arrange the following words in a logical and meaningful order.

1. Colonel
2. Field Marshal
3. Brigadier
4. Lieutenant
5. General

- A 2, 5, 3, 1, 4  
B 3, 5, 2, 4, 1  
C 1, 2, 3, 5, 4  
D 2, 5, 1, 4, 3

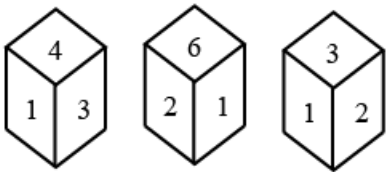
Answer: A

Explanation:

Arrangement of the post according to the rank, Field Marshal, General, Brigadier, Colonel, Lieutenant  
∴ The correct answer is option A.

Question 13

Three different positions of the same dice are shown, the six faces of which are numbered from 1 to 6. Select the number that will be on the face opposite to the one showing '6'.



- A 3  
B 2  
C 4  
D 5

Answer: A

SSC CGL Tier-2 Previous Papers PDF

Question 14

In a certain code language, 'FASTER' is written as 'CDVQHO'. How will 'VIOLIN' be written as in that language?

- A SLIRLM  
B SKIRKO  
C SLRILK  
D RLTILK

Answer: C

Explanation:

F - 3 = C  
A + 3 = D  
S + 3 = V  
T - 3 = Q  
E + 3 = H  
R - 3 = O  
Similarly,  
V - 3 = S  
I + 3 = L  
O + 3 = R  
L - 3 = I  
I + 3 = L  
N - 3 = K

'VIOLIN' is written as 'SLRILK'.

∴ The correct answer is option C.

#### Question 15

Four words have been given, out of which three are alike in some manner and one is different. Select the odd word.

- A Kidney
- B Pancreas
- C Renin
- D Liver

**Answer: C**

#### Explanation:

Except 'renin' remaining all are parts of human body.

∴ The correct answer is option C.

#### Question 16

Select the option in which the words share the same relationship as that shared by the given pair of words.

**Player : Team**

- A Flower : Bouquet
- B Ant : Bee
- C Student : Teacher
- D Purpose : Crowd

**Answer: A**

#### Explanation:

A group of players is called team.

Similarly,

A group of flowers is called bouquet.

∴ The correct answer is option A.

## SSC CGL Important Questions PDF

#### Question 17

In a class of 100 students, every student has passed in one or more of the three subjects, i.e. History, Economics and English. Among all the students, 24 students have passed in English only, 14 students have passed in History only, 11 students have passed in both English and Economics only, and 12 students have passed in both English and History only. A total of 50 students have passed in History. If only 5 students have passed in all three subjects, then how many students have passed in Economics only?



- A 15
- B 18
- C 20
- D 10

Answer: A

**Explanation:**

Students have passed in English only = 24

Students have passed in History only = 14

Students have passed in both English and Economics only = 11

Students have passed in both English and History only = 12

Students have passed in History = 50

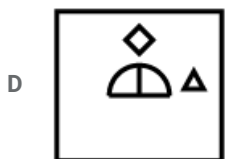
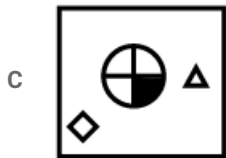
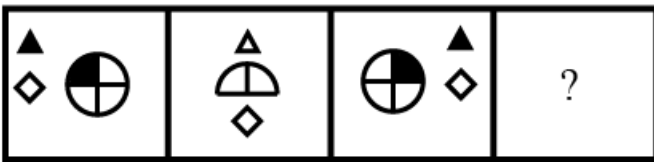
Students have passed in all three subjects = 5

Students have passed in Economics only = 100 - students have passed in History - students have passed in English only - students have passed in both English and Economics only = 100 - 50 - 24 - 11 = 15

∴ The correct answer is option A.

**Question 18**

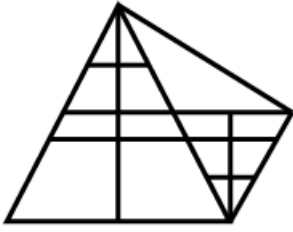
Select the figure that can replace the question mark (?) in the following series.



Answer: D

Question 19

How many triangles are there in the given figure?



A 25

B 24

C 27

D 26

Answer: A

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Question 20

Select the correct mirror image of the given figure when a vertical mirror is placed on the right side of the figure.



A

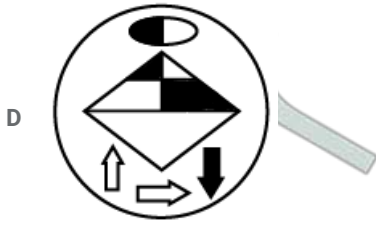


B



C





Answer: B

Question 21

Study the given pattern carefully and select the number that can replace the question mark (?) in it.

42	37	?
18	24	36
252	296	540

A 45

B 55

C 40

D 50

Answer: A

Explanation:

$$(252 \times 3) \div 18 = 756/18 = 42$$

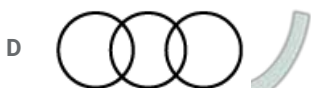
$$(296 \times 3) \div 24 = 888/24 = 37$$

$$(540 \times 3) \div 36 = 1620/36 = 45$$

∴ The correct answer is option A.

Question 22

Which of the following Venn diagrams best represents the relationship between the following classes?  
Cricketers, Players, Human beings



Answer: C

## General Science Notes for SSC CGL

### Question 23

Four number-pairs have been given, out of which three are alike in some manner and one is different. Select the number-pair that is different from the rest.

A 4209 : 15

B 5121 : 12

C 8101 : 10

D 7456 : 22

Answer: B

### Explanation:

In 4209 : 15

$$4 + 2 + 0 + 9 = 15$$

In 5121 : 12

$$5 + 1 + 2 + 1 = 9$$

In 8101 : 10,

$$8 + 1 + 0 + 1 = 10$$

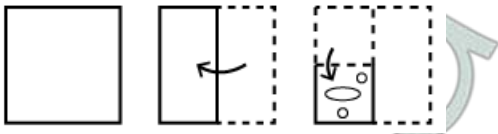
In 7456 : 22,

$$7 + 4 + 5 + 6 = 22$$

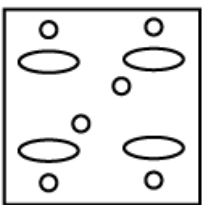
∴ The correct answer is option B.

### Question 24

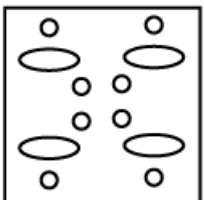
The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?



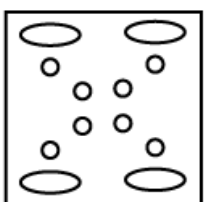
A

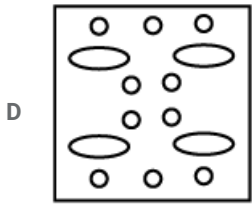


B



C





Answer: B

**Question 25**

In a certain code language, 'AUSTERE' is coded as '13102595'. How will 'SETTING' be coded as in that language?

- A 11544957
- B 10522948
- C 10522957
- D 11522867

Answer: C

**Explanation:**

A = 1  
 U(21) = 2 + 1 = 3  
 S(19) = 1 + 9 = 10  
 T(20) = 2 + 0 = 2  
 E = 5  
 R(18) = 1 + 8 = 9  
 E = 5  
 Similarly,  
 S(19) = 1 + 9 = 10  
 E = 5  
 T(20) = 2 + 0 = 2  
 T(20) = 2 + 0 = 2  
 I = 9  
 N(14) = 1 + 4 = 5  
 G = 7

'SETTING' is coded as '10522957'.  
 ∴ The correct answer is option C.

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**General Awareness**

**Instructions**

For the following questions answer them individually

**Question 26**

Which of the following companies has roped in cricketer Harbhajan Singh as its brand ambassador in 2019?

- A Reebok
- B TAFE
- C PUMA
- D Brune & Bareskin

Answer: D

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### Question 27

Berach River, a southern-side tributary of Banas River, originates from the hills in which of the following districts of Rajasthan?

- A Bharatpur
- B Jaisalmer
- C Udaipur
- D Bikaner

Answer: C

### Question 28

Who was honoured with the 1st recipient of the Muppavarapu National Award for Social Service at Hyderabad on 9th January 2020?

- A Dr. Mankombu Sambasivan Swaminathan
- B Chandra Pal Singh Yadav
- C Dr. Gutta Muniratnam
- D Uttam Prakash Agarwal

Answer: A

### Question 29

Who among the following conceived the Kakori train robbery in 1925?

- A Ubaidullah Sindhi
- B Manmath Nath Gupta and Matangini Hazra
- C Baikuntha Shukla
- D Ram Prasad Bismil and Ashfaqullah Khan

Answer: D

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### Question 30

What is the ranking of India in the World Economic Forums (WEF)'s World Travel, Tourism Competitive ness Index for the year 2019?

- A 31
- B 34
- C 37
- D 39

Answer: B

**Question 31**

Who among the following scientists invented the Cotton Gin?

- A Sonny Perdue
- B Eli Whitney
- C Norman Borlaugh
- D George Washington Carver

**Answer: B**

**Question 32**

Which of the following is also known as Epsom salt?

- A Calcium Sulphate
- B Magnesium Sulphate
- C Sodium Sulphate
- D Ferrous Sulphate

**Answer: B**

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**Question 33**

Which of the following is used to control pest fish?

- A Ovicides
- B Predacides
- C Herbicides
- D Piscicides

**Answer: D**

**Question 34**

In which of the following cities is the tomb of Rani of Jhansi situated?

- A Indore
- B Gwalior
- C Jabalpur
- D Ujjain

**Answer: B**

**Question 35**

The International Naval event 'Milan' is scheduled to be held in \_\_\_\_\_ in March 2020.

- A Kochi
- B Mumbai
- C Kolkata
- D Visakhapatnam

**Answer: D**

## SSC CGL Free Online Coaching

### Question 36

Which of the following authorities launched PPRIMS (Political Parties Registration Tracking Management System)?

- A National Human Rights Commission
- B The Supreme Court
- C Election Commission of India
- D The Union Public Service Commission

**Answer: C**

### Question 37

Which of the following Viceroys of India addressed the Bengal famine of 1943 by ordering the army to distribute relief supplies to the starving rural Bengalis?

- A Lord Linlithgow
- B Lord Mountbatten
- C Lord Wavell
- D Lord Willington

**Answer: A**

### Question 38

Which of the following acids is NOT present in grapes?

- A Acetic acid
- B Malic acid
- C Tartaric acid
- D Citric acid

**Answer: A**

## SSC CHSL Previous Question papers (download pdf)

### Question 39

In memory of whom is the Madhavpur Mela of Gujarat celebrated?



- A Lord Krishna and Radha
- B Lord Krishna and Rukmini
- C Lord Krishna and Draupadi
- D Lord Shiva and Parvati

**Answer: B**

**Question 40**

In which of the following years was the Congress Socialist Party (CSP) founded?

- A 1924
- B 1943
- C 1914
- D 1934

**Answer: D**

**Question 41**

According to data available as of 2019, how many national parks are situated in India?

- A 104
- B 115
- C 140
- D 131

**Answer: A**

## Free SSC Study Material (18,000 Solved Questions)

**Question 42**

Who among the following is the chairman of the 15th Finance Commission of India?

- A Ramesh Chand
- B Subhash Chandra Garg
- C NK Singh
- D Arvind Mehta

**Answer: C**

**Question 43**

Who among the following founded the Bombay Stock Exchange?

- A Vikramjit Sen
- B Roychand Deepchand

C Premchand Roychand

D Ashiskumar Chauhan

**Answer: C**

**Question 44**

**Who among the following Indian weight lifters has been banned for four years by NADA after being found guilty of a doping violation during the 34th Women Senior National Weight lifting Championship held at Vishakhapatnam?**

A Sanamacha Thingbaijani Chanu

B Seema

C Satheesha Rai

D Sarbjeet Kaur

**Answer: D**

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**Question 45**

**Who among the following has been appointed as Director of National Book Trust on 11th January 2020?**

A Gobinde Prashad Sharma

B Lt Col Yuvraj Malik

C Leela Samson

D Rita Chowdhury

**Answer: B**

**Question 46**

**Which of the following academies organise the Tansen Sangeet Samaroh in Gwalior?**

A Renuka Sangeet Academy

B Muntirama Sangeet Academy

C Ravindra Jain Sangeet Academy

D Ustad Alauddin Khan Kala Evam Sangeet Academy

**Answer: D**

**Question 47**

**In which of the following states was the 12th naval exercise 'Naseem-AI-Bahr' between India and Oman held?**

A Kerala

B Gujarat

C Goa

D Tamilnadu

Answer: C

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### Question 48

Which of the following is used as a substitute of mercury in thermometers?

- A Selenium
- B Arsenic
- C Galinstan
- D Bromine

Answer: C

### Question 49

How many national highways were merged to form National Highway 44 (NH 44)?

- A 7
- B 4
- C 5
- D 6

Answer: A

### Question 50

Under which Article of the Indian Constitution are special provisions provided to language spoken in a section of the population?

- A Article 347
- B Article 374
- C Article 357
- D Article 337

Answer: A

## SSC CGL Free Mock Test

### Quantitative Aptitude

#### Instructions

For the following questions answer them individually

#### Question 51

$$(a + b + c - d)^2 - (a - b - c + d)^2 = ?$$

- A  $2a(b + c - d)$
- B  $4a(b + c - d)$

C  $2a(b + c + d)$

D  $4a(b + c + d)$

Answer: B

Explanation:

$$(a + b + c - d)^2 - (a - b - c + d)^2$$

$$[(a + b + c - d) + (a - b - c + d)][(a + b + c - d) - (a - b - c + d)]$$

$$(\because a^2 - b^2 = (a + b)(a - b))$$

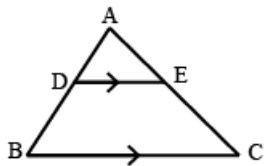
$$= (2a)(2b + 2c - 2d)$$

$$= 4a(b + c - d)$$

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Question 52

In the given figure, if  $DE \parallel BC$ ,  $AD = 2.5$  cm,  $DB = 3.5$  cm and  $EC = 4.2$  cm, then the measure of  $AC$  is:



A 3 cm

B 7.2 cm

C 7.4 cm

D 3.2

Answer: B

Question 53

The perimeter of a square is 64 cm. Its area will be:

A  $256 \text{ cm}^2$

B  $8 \text{ cm}^2$

C  $32 \text{ cm}^2$

D  $128 \text{ cm}^2$

Answer: A

Explanation:

The perimeter of a square = 64 cm

$$4 \times \text{side} = 64$$

$$\text{Side} = 64/4 = 16 \text{ cm}$$

$$\text{Area} = (\text{side})^2 = 16^2 = 256 \text{ cm}^2$$

Question 54

The price of sugar is increased by 20%. By what percentage must one cut down on the consumption of sugar, so that no extra amount has to be incurred on sugar?

A  $16\frac{2}{3}\%$

B 20%

C 80%

D  $83\frac{1}{3}\%$

**Answer: A**

**Explanation:**

Percentage decrements in the consumption of sugar =  $\frac{rate}{100+rate} \times 100$

$$= \frac{20}{100+20} \times 100 = \frac{20}{120} \times 100 = 16\frac{2}{3}\%$$

## SSC CGL Previous Papers (DOWNLOAD PDF)

**Question 55**

A furniture shopkeeper allows a discount of 16% on the marked price on the goods to his customers and still gains 20%. What is the marked price of a dining table, which costs the shopkeeper ₹11,900?

A ₹15,000

B ₹12,376

C ₹17,000

D ₹16,000

**Answer: C**

**Explanation:**

Cost price of dining table = Rs.11900

Profit = 20%

$$\text{Selling price} = 11900 \times \frac{120}{100} = \text{Rs.14280}$$

Discount = 16%

Let the marked price 100%.

$$\text{Selling price} = 100 - 16 = 84\%$$

$$84\% = 14280$$

$$100\% = \frac{14280}{84} \times 100 = 17000$$

Marked price of dining table = Rs.17000

**Question 56**

The coefficient of  $x^2$  in  $(2x + y)^3$  is:

A 8

B  $12y^2$

C  $12y$

D 12

**Answer: C**

**Explanation:**

$$(2x + y)^3$$

$$= (2x)^3 + y^3 + 3 \cdot 2x \cdot y(2x + y)$$

$$(\because (a + b)^3 = a^3 + b^3 + 3ab(a + b))$$

$$= 8x^3 + y^3 + 6xy(2x + y)$$

$$= 8x^3 + y^3 + 12x^2y + 6xy^2$$

The coefficient of  $x^2 = 12y$

**Question 57**

If  $\tan \theta - \cot \theta = \operatorname{cosec} \theta$ ,  $0^\circ < \theta < 90^\circ$ , then what is the value of  $\frac{2 \tan \theta - \cos \theta}{\sqrt{3} \cot \theta + \sec \theta}$ ?

A  $\frac{3\sqrt{3}-1}{6}$

B  $\frac{4\sqrt{3}-1}{6}$

C  $\frac{2\sqrt{3}-1}{3}$

D  $\frac{2(2\sqrt{3}-1)}{3}$

**Answer: B**

**Explanation:**

$$\tan \theta - \cot \theta = \operatorname{cosec} \theta$$

$$\tan \theta - \frac{1}{\tan \theta} = \operatorname{cosec} \theta$$

$$\tan^2 \theta - 1 = \operatorname{cosec} \theta \tan \theta$$

$$\sec^2 \theta - 1 - 1 = \sec \theta$$

$$\sec^2 \theta - \sec \theta - 2 = 0$$

$$\sec^2 \theta - 2 \sec \theta + \sec \theta - 2 = 0$$

$$\sec \theta (\sec \theta - 2) + 1(\sec \theta - 2) = 0$$

$$(\sec \theta + 1)(\sec \theta - 2) = 0$$

For  $0^\circ < \theta < 90^\circ$ ,

$$\sec \theta = 2$$

$$\cos \theta = 1/2$$

$$\theta = 60^\circ$$

Now,

$$\frac{2 \tan \theta - \cos \theta}{\sqrt{3} \cot \theta + \sec \theta}$$

Put the value of  $\theta$ ,

$$= \frac{2 \tan 60^\circ - \cos 60^\circ}{\sqrt{3} \cot 60^\circ + \sec 60^\circ}$$

$$= \frac{2\sqrt{3} - \frac{1}{2}}{\sqrt{3} \times \frac{1}{\sqrt{3}} + 2}$$

$$= \frac{4\sqrt{3} - 1}{6}$$

**Question 58**

The value of  $-1 + \frac{1}{4} \div \frac{1}{2} \times 2 + 5$  is:

- A  $\frac{17}{4}$
- B 5
- C 2
- D  $-\frac{7}{2}$

**Answer: B**

**Explanation:**

$$\begin{aligned} & -1 + \frac{1}{4} \div \frac{1}{2} \times 2 + 5 \\ & = -1 + \frac{1}{4} \times 2 \times 2 + 5 \\ & = -1 + 1 + 5 = 5 \end{aligned}$$

**Question 59**

The value of  $\cos 0^\circ \cos 30^\circ \cos 45^\circ \cos 60^\circ \cos 90^\circ$  is:

- A 5
- B 3
- C 0
- D  $\frac{\sqrt{6}}{8}$

**Answer: C**

**Explanation:**

$$\cos 0^\circ \cos 30^\circ \cos 45^\circ \cos 60^\circ \cos 90^\circ = 0$$

( $\because \cos 0^\circ = 0$ )

**Question 60**

The heights of some girls in a school were noted and the data obtained are as shown in the table.

Height(in cm)	125-130	130-135	135-140	140-145	145-150	150-155
No. of girls	12	16	20	29	15	8

How many girls have a height of 135 cm or more but less than 150 cm?

- A 88
- B 35
- C 80
- D 64

**Answer: D**

**Explanation:**

$$\text{Number of girls have a height of 135 cm or more but less than 150 cm} = 20 + 29 + 15 = 64$$

## SSC CGL Tier-2 Previous Papers PDF

### Question 61

Sudhir purchased a laptop for ₹42,000 and a scanner-cum-printer for ₹8,000. He sold the laptop for a 10% profit and the scanner-cum-printer for a 5% profit. What is his profit percentage?

- A  $9\frac{2}{5}\%$
- B  $9\frac{1}{5}\%$
- C 15%
- D  $7\frac{1}{2}\%$

Answer: B

### Explanation:

Cost price of laptop = Rs.42000

Profit = 10%

Selling price =  $42000 \times \frac{110}{100} = \text{Rs.}46200$

Cost price of printer = Rs.8000

Profit = 5%

Selling price =  $8000 \times \frac{105}{100} = \text{Rs.}8400$

Total selling price =  $46200 + 8400 = \text{Rs.}54600$

Total cost price =  $42000 + 8000 = \text{Rs.}50000$

Total profit =  $54600 - 50000 = \text{Rs.}4600$

Total profit% =  $\frac{4600}{50000} \times 100 = 9\frac{1}{5}$

### Question 62

The following table shows the income(in rupees) for a particular month, together with their source, in respect of 5 employees (A, B, C, D and E).

Employee	A	B	C	D	E
Salary	52,000	48,500	42,000	31,000	25,000
Overtime	0	0	1,500	2,500	3,200
Arrears	5,500	4,500	4,000	3,000	1,500
Bonus	3,500	3,000	2,500	2,000	2,000
Miscellaneous income	5,000	3,000	2,000	1,500	0
Total	66,000	59,000	52,000	40,000	31,700

How many employees got more arrears than the average arrears received by all the employees?

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

Answer: C

### Explanation:

The average arrears received by all the employees =  $\frac{\text{sum of terms}}{\text{number of terms}} = \frac{5500+4500+4000+3000+1500}{5} = 18500/5 = 3700$

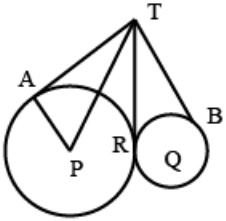


Required number = 3

∴ 3 employees (A, B and C) got more arrears than the average arrears received by all the employees.

**Question 63**

In the figure, Two circles with centres P and Q touch externally at R. Tangents AT and BT meet the common tangent TR at T. If AP = 6 cm and PT = 10 cm, then BT = ?



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

Answer: B

**SSC CGL Important Questions PDF**

**Question 64**

If  $x - \frac{1}{x} = 11$ , then  $x^3 - \frac{1}{x^3}$  is:

- A 1474
- B 1364
- C 1188
- D 1298

Answer: D

**Explanation:**

$$x - \frac{1}{x} = 11$$

$$x^3 - \frac{1}{x^3} = (x - \frac{1}{x})^3 - 3(x - \frac{1}{x})$$

$$(\because (a - b)^3 = a^3 - b^3 - 3ab(a - b))$$

$$= (11)^3 - 3(11)$$

$$= 1331 - 33 = 1298$$

**Question 65**

The following table shows the monthly salaries (in ₹) of 50 families.

Salary (in ₹)	25,000 - 30,000	30,000 - 35,000	35,000 - 40,000	40,000 - 45,000	45,000 - 50,000
Number of families	6	12	9	19	4

How many families have a monthly salary less than ₹40,000?

- A 46
- B 9
- C 27
- D 18

**Answer: C**

**Explanation:**

Number of families which have monthly salary less than ₹40,000 =  $6 + 12 + 9 = 27$

**Question 66**

The greatest number which should be replace '\*' in the number 146\*48 to make it divisible by 8 is:

- A 8
- B 9
- C 2
- D 0

**Answer: A**

**Explanation:**

For the divisible by 8, last 3 digits of the number should be divisible by 8 so,

\*48 divisible by 8.

From the option A),

Put the value of  $x = 8$ ,

Last 3 digit = 848

If it is divisible by 8 so, greatest value of \* will be 8.

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**Question 67**

The following table shows the number of students enrolled in different faculties in a college.

Science		Arts		Commerece		Vocational	
Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys
32	18	28	45	42	42	13	30

The percentage of students studying in faculties other than Science is:

- A 60%
- B 80%
- C 75%
- D 20%

**Answer: B**

**Explanation:**

Total number of student =  $32 + 18 + 28 + 45 + 42 + 42 + 13 + 30 = 250$

Total number of student in Arts, commerce, vocational =  $28 + 45 + 42 + 42 + 13 + 30 = 200$

Required percentage =  $\frac{200}{250} \times 100 = 80\%$

**Question 68**

The distance between two stations, A and B, is 428 km. A train starts from station 'A' at 6:00 a.m. and moves towards station 'B' at an average speed of 48 km/h. Another train starts from station 'B' at 6:20 a.m. and moves towards station 'A' at an average speed of 55 km/h. At what time will the trains meet?

- A 10 : 20 a.m.
- B 9 : 40 a.m.
- C 10 : 40 a.m.
- D 10:00 a.m.

**Answer: A**

**Explanation:**

Distance from A to B = 428 km

Speed of train A = 48 km/hr

Speed of train B = 55 km/hr

Train A starts at 6:00 am and B start at 6:20 so,

Distance covered by by train A in 20 min  $(20/60 \text{ hr}) = \text{speed} \times (20/60) = 48 \times (1/3) = 16 \text{ km}$

Remaining distance =  $428 - 16 = 412 \text{ km}$

Trains run in opposite direction so relative speed =  $48 + 55 = 103 \text{ km/hr}$

Time taken to meet =  $412/103 = 4 \text{ hr}$

Time when trains meet =  $6:20 + 4 = 10:20 \text{ am}$

**Question 69**

A certain amount of money at compound interest grows to ₹66,550 in 3 years and ₹73,205 in 4 years. The rate per cent per annum is:

- A 9%
- B 5%
- C 11%
- D 10%

**Answer: D**

**Explanation:**

Difference in the interest in 4 years and 3 years =  $73205 - 66550 = \text{Rs.}6655$

Rate percentage =  $\frac{6655}{66550} \times 100 = 10\%$

**General Science Notes for SSC CGL**

**Question 70**

The average height of 5 boys is 175 cm. A sixth boy joined the group and the average height of all the boys in the group now increased by 1 cm. The height of the sixth boy is:

- A 180 cm

- B 181 cm
- C 175 cm
- D 179 cm

**Answer: B**

**Explanation:**

The average height of 5 boys = 175 cm

Average = sum of all terms/number of terms

Sum of the height of 5 boys =  $175 \times 5 = 875$

Average height after joining of 6th boys =  $175 + 1 = 176$

Sum of the height of 6 boys =  $176 \times 6 = 1056$

Height of 6th boy =  $1056 - 875 = 181$  cm

**Question 71**

If angles of a triangle are in the ratio of 2 : 3 : 4, then the measure of the smallest angles:

- A  $50^\circ$
- B  $30^\circ$
- C  $40^\circ$
- D  $20^\circ$

**Answer: C**

**Explanation:**

Ratio of angles = 2 : 3 : 4

Let the angles be  $2x$ ,  $3x$  and  $4x$ .

We know the sum of the angles of a triangle is  $180^\circ$ .

$$2x + 3x + 4x = 180^\circ$$

$$x = 180/9 = 20^\circ$$

$$\text{Smallest angle} = 2x = 2 \times 20 = 40^\circ$$

**Question 72**

Sixteen men can finish a work in 8 days. Eight men and nine women working together can finish the same work in 10 days. In how many days will twenty women finish the same work?

- A 9
- B 12
- C 11
- D 13

**Answer: B**

**Explanation:**

Total work = man/woman  $\times$  time

Work is same so,

$$16m \times 8 = (8m + 9w) \times 10$$

$$\Rightarrow 128m = 80m + 90w$$

$$\Rightarrow 48m = 90w$$

$$\Rightarrow 8m = 15w$$

Let the 20 women complete work in days so,

$$\text{Total work} = 20w \times d$$

$$\Rightarrow (8m + 9w) \times 10 = 20w \times d$$

$$\Rightarrow (15w + 9w) \times 10 = 20w \times d$$

$$\Rightarrow 24w \times 10 = 20w \times d$$

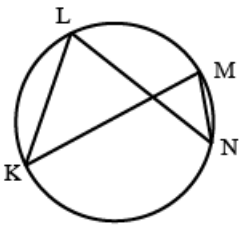
$$\Rightarrow d = 12 \text{ days}$$

\(\therefore\) Twenty women finish the same work in 12 days.

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### Question 73

In the given figure, if  $\angle KLN = 58^\circ$ , then  $\angle KMN = ?$



A  $26^\circ$

B  $42^\circ$

C  $58^\circ$

D  $32^\circ$

Answer: C

### Question 74

The value of  $\sqrt{\tan^2 60^\circ + \sin 90^\circ} - 2 \tan 45^\circ$  is:

A 0

B 2

C 4

D 1

Answer: A

Explanation:

$$\sqrt{\tan^2 60^\circ + \sin 90^\circ} - 2 \tan 45^\circ$$

On putting the values,

$$\sqrt{(\sqrt{3})^2 + 1} - 2 \times 1$$

$$\sqrt{4} - 2$$

$= 2 - 2 = 0$

**Question 75**

A certain amount is divided among Sunita, Amit and Vibha in the ratio of 2 : 3 : 4. If Vibha gets ₹14,416, then the total amount is:

- A ₹16,219
- B ₹3,604
- C ₹43,248
- D ₹32,436

**Answer:** D

**Explanation:**

Ratio of the amount of Sunita, Amit and Vibha = 2 : 3 : 4

Let the amount of Sunita, Amit and Vibha be  $2x$ ,  $3x$  and  $4x$ .

Amount of Vibha = 14416

$4x = 14416$

$x = 14416/4 = 3604$

Total amount =  $2x + 3x + 4x = 9x$

$= 9 \times 3604 = \text{Rs.}32436$

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### English Comprehension

**Instructions**

For the following questions answer them individually

**Question 76**

Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select No improvement.

I wish if I was the Principal of my school.

- A If I had been
- B I were
- C No improvement
- D that I am

**Answer:** B

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**Question 77**

Select the passive form of the given sentence.

People claim to have seen the wild and mad elephant in several cities.

- A The wild and mad elephant has been claimed to be seen by the people in several cities.
- B The wild and mad elephant is being claimed to be seen in several cities.

- C The wild and mad elephant is claimed to have been seen in several cities.
- D The wild and mad elephant was claimed to be seen by people in several cities.

Answer: C

**Question 78**

In the sentence identify the segment which contains the grammatical error.  
Lucy has already cut the cake when we reached the party hall.

- A the party hall
- B Lucy has already
- C when we reached
- D cut the cake

Answer: D

**Question 79**

Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

- A. There are many gadgets that are operated by a remote control and contain a silicon chip.
- B. This produces an infra-red beam, made up of electromagnetic waves.
- C. When a button is pressed on the remote control, the chip sets off an electronic vibration.
- D. The beam carries a coded signal for operating the systems.

- A ADCB
- B ACDB
- C ACBD
- D BACD

Answer: C

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**Instructions**

Select the most appropriate word to fill in the blank.

**Question 80**

Health should be our first priority and should never be \_\_\_\_\_.

- A neglected
- B suspended
- C discarded
- D declined

Answer: A

**Question 81**

A colour blind person is not able to \_\_\_\_\_ between colours.

- A glance
- B distinguish
- C define
- D observe

**Answer: B**

**Instructions**

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

**Comprehension:**

Corruption is one of the (1)\_\_\_\_\_ problems of our country. It is an act done with (2)\_\_\_\_\_ to gain some undue advantages, inconsistent with official duty. Government has (3)\_\_\_\_\_ many schemes for the welfare of the people but corruption seems impossible to be (4)\_\_\_\_\_ India can become a corruption-free nation only when all the citizens (5)\_\_\_\_\_ rules and regulations with a strong will power and cooperate whole heartedly.

**Question 82**

Select the most appropriate option for blank No. 1.

- A powerful
- B minor
- C major
- D strong

**Answer: C**

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**Question 83**

Select the most appropriate option for blank No. 2.

- A compulsion
- B intention
- C intuition
- D passion

**Answer: B**

**Question 84**

Select the most appropriate option for blank No. 3.

- A denounced
- B written
- C announced
- D concealed



Answer: C

Question 85

Select the most appropriate option for blank No. 4.

- A eliminated
- B permitted
- C initiated
- D created

Answer: A

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Question 86

Select the most appropriate option for blank No. 5.

- A reject
- B disobey
- C break
- D follow

Answer: D

Instructions

For the following questions answer them individually

Question 87

Select the most appropriate antonym of the given word.

Hostile

- A Amiable
- B Violent
- C Unfavourable
- D Adverse

Answer: A

Question 88

Select the correctly spelt word.

- A Definite
- B Definete
- C Definiet
- D Definate

Answer: A

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### Question 89

Select the most appropriate antonym of the given word.  
Sluggish

- A Active
- B Dull
- C Sedentary
- D Weak

Answer: A

### Question 90

Identify the part of the sentence that contains the grammatical error.

One of the greatest responsibilities of a scientist is that his discoveries and inventions are utilized to the overall development of the nation.

- A is that his discoveries and inventions
- B are utilized to the overall
- C One of the greatest responsibilities of a scientist
- D development of the nation

Answer: B

### Question 91

Select the indirect narration of the given sentence.

He said to me, "What time do the banks open and close?"

- A He asked me what time do the banks open and close.
- B He said me what time did the banks open and close.
- C He wanted to know what time the banks open and close.
- D He asked me what time the banks opened and closed.

Answer: D

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### Question 92

Select the most appropriate synonym of the given word.  
Deficiency

- A Abundance
- B Sufficiency

C Inadequacy

D Efficiency

**Answer: C**

**Question 93**

Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

A. It is called the atmosphere.

B. All parts of the earth are surrounded by air.

C. Living beings breathe in and breathe out the air all the time.

D. This process is called respiration.

A DACB

B BACD

C CBAD

D ACDB

**Answer: B**

**Question 94**

Select the most appropriate meaning of the given Idiom.

To add fuel to the fire.

A Exploit someone

B Simplify the problem

C To make a bad situation worse

D Calm down the situation

**Answer: C**

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**Question 95**

Select the correctly spelt word.

A Commemorate

B Commemorate

C Comemorate

D Comemmorate

**Answer: A**

**Question 96**

Select the most appropriate meaning of the given Idiom.

Hobson's Choice

A To be in an aggressive mood when facing a challenge

- B To challenge an unworthy opponent
- C An apparently free choice where there is no real alternative
- D To exercise the choice to surrender before the enemy

**Answer: C**

**Instructions**

Select the most appropriate word that means the same as the group of words given.

**Question 97**

**A short story with a moral, usually with animals as characters.**

- A Hymn
- B Fable
- C Parody
- D Ode

**Answer: B**

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**Question 98**

**Enclosed area where aircraft are kept and repaired**

- A Hangar
- B Harbinger
- C Hose
- D Hanger

**Answer: A**

**Instructions**

For the following questions answer them individually

**Question 99**

**Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select No improvement.**

**Amit has the good command on English as he was born and brought up in England.**

- A a better command of
- B the best command in
- C a good command over
- D No improvement

**Answer: C**

Question 100

Select the most appropriate synonym of the given word.

Catastrophic

A Disastrous

B Mysterious

C Tough

D Delicate

Answer: A

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