



## SSC CGL 3rd March 2020 Shift-3

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# General Intelligence and Reasoning

## Instructions

For the following questions answer them individually

### Question 1

Select the letter-cluster that can replace the question mark (?) in the following series.  
KQG, JTK, HXO, ECS, ?

- A BIV
- B AIW
- C AHW
- D BIX

Answer: B

### Explanation:

The series follow pattern as,

$$(K - 1)(Q + 3)(G + 4) = JTK,$$

$$(J - 2)(T + 4)(K + 4) = HXO$$

$$(H - 3)(X + 5)(O + 4) = ECS$$

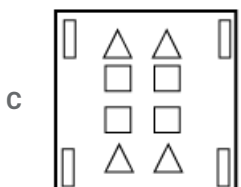
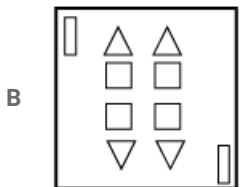
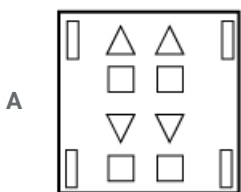
$$(E - 4)(C + 6)(S + 4) = AIW$$

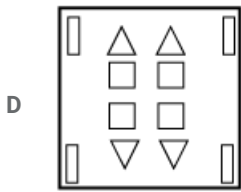
∴ The correct answer is option B.

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### Question 2

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?





Answer: D

Question 3

Select the correct mirror image of the given alphanumeric-cluster when a mirror is placed on the right side of the cluster.

5 G 7 N P Q 4

A 4 D 9 N 7 G 2

B 4 Q 7 N P Q 5

C 2 G 7 N P Q 4

D 4 Q 9 N 7 G 2

Answer: D

Question 4

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

28	30	36
36	32	18
252	240	?

A 268

B 166

C 164

D 162

Answer: D

Explanation:

$$(28 \times 36) \div 4 = 1008/4 = 252$$

$$(30 \times 32) \div 4 = 960/4 = 240$$

Similarly,

$$(36 \times 18) \div 4 = 648/4 = 162$$

∴ The correct answer is option D.

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Question 5

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

A Peace

B Non-violence

C Truth

D Hatred

Answer: D

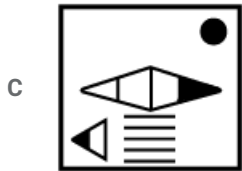
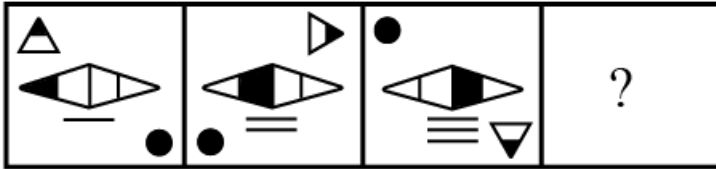
**Explanation:**

Except the 'hatred' remaining all have same meaning.

∴ The correct answer is option D

**Question 6**

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



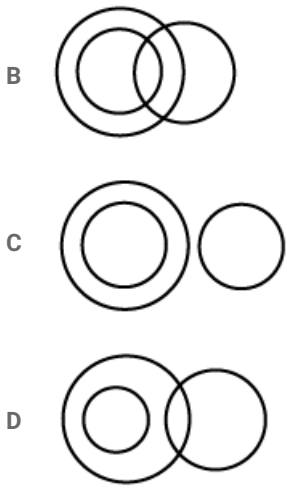
Answer: A

**Question 7**

Which of the following Venn diagrams best represents the relationship between the following classes?

Police Officers, Mothers, Females





Answer: B

## SSC CGL Tier-2 Previous Papers PDF

### Question 8

Select the option that is related to the third number in the same way as the second number is related to the first number.  
 $7 : 329 :: 9 : ?$

- A 1029
- B 728
- C 711
- D 743

Answer: C

#### Explanation:

$$(7)^3 - 7 \times 2 = 343 - 14 = 329$$

Similarly,

$$(9)^3 - 9 \times 2 = 729 - 18 = 711$$

∴ The correct answer is option C.

### Question 9

The total of the ages of Amit and Suvarna on 1 January 2015 is 61 years. Amit is three years younger than Suvarna. What was the age of Suvarna on 1 January 2010?

- A 27 years
- B 24 years
- C 29 years
- D 32 years

Answer: A

#### Explanation:

Age of Amit + 3 = age of Suvarna

The total of the ages of Amit and Suvarna on 1 January 2015 = 61 years

Age of Amit + Age of Suvarna = 61 years

Age of Amit + Age of Amit + 3 = 61

Age of Amit =  $58/2 = 29$  years

Age of Suvarna on 1 January 2015 = age of Amit + 3 = 29 + 3 = 32

Age of Survarna on 1 January 2010 = 32 - 5 = 27 years

∴ The correct answer is option A.

#### Question 10

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 35 : 1221

B 21 : 437

C 11 : 118

D 33 : 1085

**Answer: B**

#### Explanation:

In 35 : 1221,

$3 + 5 = 8, 1 + 2 + 2 + 1 = 6$

In 21 : 437,

$2 + 1 = 3, 4 + 3 + 7 = 14$

In 11 : 118,

$1 + 1 = 2, 1 + 1 + 8 = 10$

In 33 : 1085,

$3 + 3 = 6, 1 + 0 + 8 + 5 = 14$

In the option B, sum of the digits are even and odd both.

∴ The correct answer is option B.

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#### Question 11

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 BGLQ

B OTYD

C KPUZ

D HMRV

**Answer: D**

#### Explanation:

$B + 5 = G + 5 = L + 5 = Q$

$O + 5 = T + 5 = Y + 5 = D$

$K + 5 = P + 5 = U + 5 = Z$

$H + 5 = M + 5 = R + 4 = V$

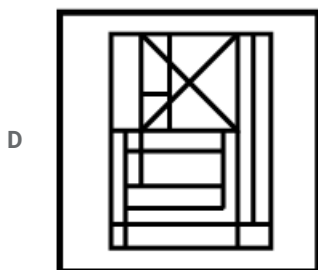
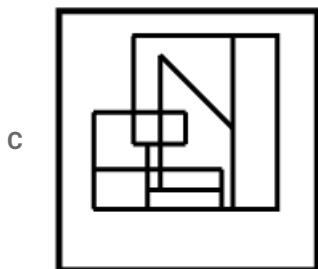
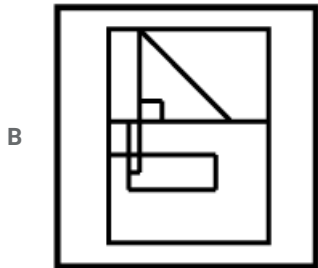
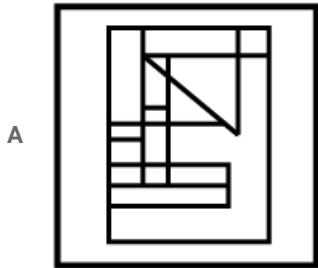
∴ The correct answer is option D.

Question 12

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



Figure X



Answer: D

Question 13

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

Calendar : Date

A Class : Group

B Weight : Kilogram

C Food : Vegetarian

D Clock : Time

Answer: D

**Explanation:**

As calendar shows the date similarly, clock shows the time.

∴ The correct answer is option D.

## SSC CGL Important Questions PDF

**Question 14**

In a certain code language, 'SERVANT' is coded as '195182211420'. How will 'MAGNIFY' be coded as in that language?

A 1426693625

B 1316143522

C 1317149625

D 1417139625

Answer: C

**Explanation:**

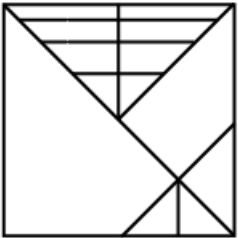
Word coded according to the alphabet number so,

'MAGNIFY' is coded as '1317149625'.

∴ The correct answer is option C.

**Question 15**

How many triangles are there in the given figure?



A 24

B 18

C 20

D 22

Answer: C

**Question 16**

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

O, B, L, C, I, D, F, E, ?

A K

B C

C H



D N

Answer: B

**Explanation:**

The series consists two series,

O, L, I, F, ?

And

B, C, D, E

$O - 3 = L$

$L - 3 = I$

$I - 3 = F$

**$F - 3 = C$**

∴ The correct answer is option B.

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**Question 17**

'Beverages' is related to 'Tea' in the same way as 'Medicine' is related to '.....'

A Doctor

B Hospital

C Analgesics

D Disease

Answer: C

**Explanation:**

'Beverages' is related to 'Tea' in the same way as 'Medicine' is related to 'analgesics'.

∴ The correct answer is option C.

**Question 18**

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

87, 89, 92, 97, 104, 115, ?, 145

A 125

B 128

C 133

D 132

Answer: B

**Explanation:**

The series has the addition of prime numbers. Like as,

$87 + 2 = 89$

$89 + 3 = 92$

$92 + 5 = 97$

$97 + 7 = 104$

$104 + 11 = 115$

**$115 + 13 = 128$**

$128 + 17 = 145$

∴ The correct answer is option B.

Question 19

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. All prizes are medals.
2. Some prizes are certificates.

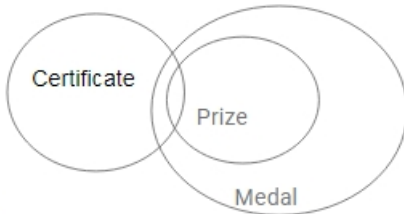
Conclusions:

- I. Some certificates are prizes.
- II. Some medals are prizes.
- III. Some certificates are medals.

- A Only conclusions I and III follow.  
B Only conclusions II and III follow.  
C All conclusions I, II and III follow.  
D Only conclusions I and II follow.

Answer: C

Explanation:



From the Venn diagram,  
All conclusions I, II and III follow.

∴ The correct answer is option C.

## General Science Notes for SSC CGL

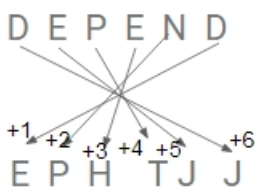
Question 20

In a certain code language, 'DEPEND' is written as 'EPHTJJ'. How will 'TRAVEL' be written as in that language?

- A MGWEWY  
B NGYFWZ  
C MGYEWZ  
D MGZEXZ

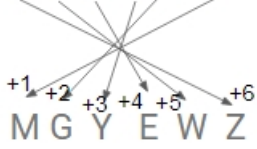
Answer: C

Explanation:



Similarly,

T R A V E L



∴ The correct answer is option C.

**Question 21**

Select the option in which the numbers are related in the same way as are the numbers in the given set.  
(11, 165, 209)

- A (14, 210, 276)
- B (17, 245, 323)
- C (12, 180, 228)
- D (15, 225, 275)

**Answer: C**

**Explanation:**

In (11, 165, 209),

$$11 \times 15 = 165$$

$$11 \times 19 = 209$$

Similarly,

From Option C,

$$12 \times 15 = 180$$

$$12 \times 19 = 228$$

∴ The correct answer is option C.

**Question 22**

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

$$17 + 11 - 12 \times 36 \div 6 = 80$$

- A  $\times$  and  $-$ ; 17 and 11
- B  $+$  and  $-$ ; 6 and 12
- C  $\times$  and  $-$ ; 6 and 12
- D  $\times$  and  $-$ ; 17 and 12

**Answer: C**

**Explanation:**

$$17 + 11 - 12 \times 36 \div 6 = 80$$

From option C,

On interchanging,

$$17 + 11 \times 6 - 36 \div 12 = 80$$

$$17 + 66 - 3 = 80$$

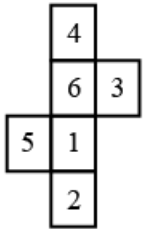
$$80 = 80$$

∴ The correct answer is option C.

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Question 23

Select the dices that can be formed by folding the given sheet along the lines.



A



B



C



D

- A Only B, C and D
- B Only B and C
- C Only B and D
- D Only A and B

Answer: B

Question 24

If the following words are arranged as per their order in the English dictionary which of the following words will come third in the sequence?

1. Isomer
2. Isoline
3. Isotope
4. Isolate
5. Isologs
6. Isonomy

- A Isologs
- B Isoline
- C Isolate
- D Isomer

Answer: A

Explanation:

Arrangement according to the English dictionary, Isolate, Isoline, Isologs, Isomer, Isonomy, Isotope  
Required word = Isologs

∴ The correct answer is option A.

Question 25

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

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

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

$A \div B$  means 'A is the mother of B'.

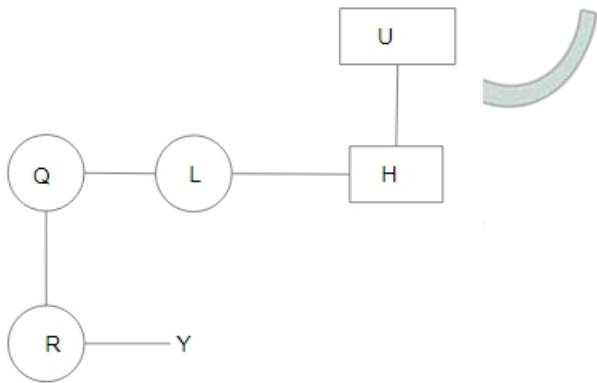
If,  $U + H \times L - Q \div R - Y$ , then how is L related to Y?

- A Mother's brother
- B Mother's sister
- C Sister
- D Maternal grandmother

**Answer: B**

**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,  
'L' is mother's sister of 'Y'.  
∴ The correct answer is option B.

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### General Awareness

**Instructions**

For the following questions answer them individually

**Question 26**

The last recognised king of the Gupta line was \_\_\_\_\_.

- A Samudragupta
- B Bimbisara
- C Ashoka
- D Vishnugupta

**Answer: D**

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**Question 27**

In \_\_\_\_\_ economies, all productive resources are owned and controlled by the government.

- A dual
- B socialist

- C mixed
- D capitalist

**Answer: B**

**Question 28**

The birth anniversary of \_\_\_\_\_ is celebrated as 'International Nurses Day' every year.

- A Florence Nightingale
- B Alice Walker
- C Clara Barton
- D Mother Teresa

**Answer: A**

**Question 29**

The city of \_\_\_\_\_ is located at the mouth of the Yangtze River.

- A Beijing
- B Guangzhou
- C Shanghai
- D Lhasa

**Answer: C**

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**Question 30**

As of December 2019, \_\_\_\_\_ was the largest crude oil supplier to India.

- A Iraq
- B Saudi Arabia
- C United Arab Emirates
- D Iran

**Answer: A**

**Question 31**

Who among the following publishes the Economic Survey of India?

- A National Development Council
- B Ministry of Finance
- C Institute of finance
- D Indian Statistical Institute

Answer: B

**Question 32**

Name the Indian elected to the International Narcotics Control Board by the UN Economic and Social Council on 23 April 2014 and re-elected by the Council for a 5 - year term (2020-2025) on 7 May 2019.

- A Sudhir Rajkumar
- B Jagjit Pavadia
- C Syed Akbaruddin
- D Yasmin Ali Haque

Answer: B

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**Question 33**

In October 2019, \_\_\_\_\_ was appointed as the secretary of the Board of Control for Cricket in India (BCCI).

- A Brijesh Patel
- B Sourav Ganguly
- C Jay Shah
- D Jayesh George

Answer: C

**Question 34**

1 horsepower = approximately \_\_\_\_ watts.

- A 746
- B 764
- C 647
- D 674

Answer: A

**Question 35**

Which of the following countries is NOT a member of the SAARC Association?

- A Pakistan
- B Nepal
- C China
- D Bhutan

Answer: C

## SSC CHSL Previous Question papers (download pdf)

### Question 36

The process of coating grooves or engravings in ornaments with coloured enamels is called \_\_\_\_\_.

- A Phulkari
- B Zardozi
- C Chikankari
- D Meenakari

Answer: D

### Question 37

Who was the first Indian to receive the International Shooting Sport Federation (ISSF) Blue Cross?

- A Ronjan Sodhi
- B Vijay Kumar
- C Gagan Narang
- D Abhinav Bindra

Answer: D

### Question 38

Which of the following is NOT a part of the brain?

- A Medulla
- B Thalamus
- C Pons
- D Pinna

Answer: D

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### Question 39

As of January 2020, which of the following countries had NOT independently launched a human into space?

- A India
- B USA
- C Russia
- D China

Answer: A



**Question 40**

The first ruler of Magadha from the Haryanka dynasty was \_\_\_\_\_.

- A Ashoka
- B Prasenajit
- C Bimbisara
- D Ajatshatru

**Answer: C**

**Question 41**

The \_\_\_\_\_ helps in equalising the pressure on either sides of the eardrum

- A cochlear nerve
- B malleus
- C eustachian tube
- D incus

**Answer: C**

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**Question 42**

Calcium sulphate dihydrate is commonly known as \_\_\_\_\_.

- A gypsum
- B glass
- C asbestos
- D limestone

**Answer: A**

**Question 43**

Who among the following was a famous 'Qawwali' singer?

- A Nazia Hassan
- B Begum Akhtar
- C Nusrat Fateh Ali Khan
- D Bade Ghulam Ali Khan

**Answer: C**

**Question 44**

\_\_\_\_\_ became the Prime Minister of Bhutan in November 2018.

- A Lyonchhen Lotay Tshering
- B Lyonchhen Jigme Thinley
- C Lyonpo Sonam Tobgye
- D Lyonpo Sangay Ngedup

Answer: A

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Question 45

\_\_\_\_\_, the world's highest polo ground, is located in Pakistan.

- A Kasur
- B Attock
- C Shandur
- D Okara

Answer: C

Question 46

'Kiribath' is a rice dish from \_\_\_\_\_.

- A Myanmar
- B Bhutan
- C Nepal
- D SriLanka

Answer: D

Question 47

The Gupta rulers imposed a fine called \_\_\_\_\_ which was a plough tax paid by every cultivator owning a plough.

- A Hiranya
- B Sulka
- C Halivakara
- D Kara

Answer: C

## SSC CGL Previous Papers (DOWNLOAD PDF)

Question 48

\_\_\_\_\_ is the largest city in Sri Lanka.

- A Colombo
- B Negombo
- C Kandy
- D Jaffna

Answer: A

**Question 49**

Hiuen Tsang, hailed as the prince of pilgrims, visited India during the reign of king \_\_\_\_\_.

- A Ashoka
- B Vishnugupta
- C Samudragupta
- D Harsha

Answer: D

**Question 50**

Lucifer is another name for the planet \_\_\_\_\_.

- A Jupiter
- B Saturn
- C Venus
- D Mars

Answer: C

## SSC CGL Tier-2 Previous Papers PDF

### Quantitative Aptitude

**Instructions**

For the following questions answer them individually

**Question 51**

The average of five consecutive even numbers is M. If the next five even numbers are also included, the average of ten numbers will be:

- A  $M + 5$
- B 11
- C 10
- D  $M + 10$

Answer: A

**Explanation:**

The average of five consecutive even numbers = M

Sum of the 5 number = 5M

Let the first even number be x.

$$\frac{x+x+2+x+4+x+6+x+8}{5} = M$$

$$5x = 5M - 20$$

$$x = M - 4$$

Next 5 numbers = x + 10, x + 12, x + 14, x + 16, x + 18,

On put the value of x,

Numbers = M + 6, M + 8, M + 10, M + 12, M + 14

$$\text{average of ten numbers} = \frac{5M + M + 6 + M + 8 + M + 10 + M + 12 + M + 14}{10}$$

$$= (10M + 50)/10 = M + 5$$

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**Question 52**

The value of  $-\frac{5}{2} + \frac{3}{2} \div 6 \times \frac{1}{2}$  is equal to:

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

B  $-\frac{1}{12}$

C  $-\frac{19}{8}$

D  $-\frac{9}{8}$

**Answer: C**

**Explanation:**

$$-\frac{5}{2} + \frac{3}{2} \div 6 \times \frac{1}{2}$$

$$-\frac{5}{2} + \frac{1}{4} \times \frac{1}{2}$$

$$-\frac{5}{2} + \frac{1}{8}$$

$$-\frac{19}{8}$$

**Question 53**

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

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

B  $2a(a + b - c)$

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

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

**Answer: A**

**Explanation:**

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

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

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

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

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

**Question 54**

If  $2 \sin \theta - 8 \cos^2 \theta + 5 = 0$ ,  $0^\circ < \theta < 90^\circ$ , then what is the value of  $(\tan 2\theta + \operatorname{cosec} 2\theta)$ ?

A  $3\sqrt{3}$

B  $\frac{4\sqrt{3}}{3}$

C  $2\sqrt{3}$

D  $\frac{5\sqrt{3}}{3}$

**Answer: D**

**Explanation:**

$$2 \sin \theta - 8 \cos^2 \theta + 5 = 0$$

$$\Rightarrow 2 \sin \theta - 8(1 - \sin^2 \theta) + 5 = 0$$

$$\Rightarrow 8 \sin^2 \theta + 2 \sin \theta - 3 = 0$$

$$\Rightarrow 8 \sin^2 \theta + 6 \sin \theta - 4 \sin \theta - 3 = 0$$

$$\Rightarrow 4 \sin \theta(2 \sin \theta - 1) + 3(2 \sin \theta - 1) = 0$$

$$\Rightarrow (4 \sin \theta + 3)(2 \sin \theta - 1) = 0$$

$$\Rightarrow \sin \theta = 1/2$$

$$\Rightarrow \theta = 30^\circ$$

$$(\tan 2\theta + \operatorname{cosec} 2\theta)$$

$$= (\tan 2 \times 30^\circ + \operatorname{cosec} 2 \times 30^\circ)$$

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

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

$$= \frac{5}{\sqrt{3}} = \frac{5\sqrt{3}}{3}$$

## SSC CGL Important Questions PDF

**Question 55**

Two racers run at a speed of 100 m/min and 120 m/min, respectively. If the second racer takes 10 minutes less than the first to complete the run, then how long is the race?

A 2 km

B 4 km

C 6 km

D 1 km

**Answer: C**

**Explanation:**

$$\text{Ratio of the speed of the racers} = 100 : 120 = 5 : 6$$

$$\text{Ratio of the time of the racers} = 6 : 5$$

Let the time be  $6x$  and  $5x$ .

Difference in time =  $6x - 5x = x$

$x = 10$  min

$6x = 6 \times 10 = 60$  min

Speed of racer =  $100$  m/min

Distance = speed  $\times$  time =  $100 \times 60 = 6000$  m =  $6$  km

#### Question 56

The table below shows income (in rupees) for a particular month, together with their sources 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 have their salary more than four times their other incomes?

A 3

B 2

C 1

D 4

Answer: B

#### Explanation:

Other incomes of A =  $5500 + 3500 + 5000 = 14000$

4 times of the other income =  $14000 \times 4 = 56000$

salary of A =  $52000$

Other incomes of B =  $4500 + 3000 + 3000 = 10500$

4 times of the other income =  $10500 \times 4 = 42000$

salary of B =  $48500$

Other incomes of C =  $1500 + 4000 + 2500 + 2000 = 10000$

4 times of the other income =  $10000 \times 4 = 40000$

salary of C =  $42000$

Other incomes of D =  $2500 + 3000 + 2000 + 1500 = 8500$

4 times of the other income =  $8500 \times 4 = 34000$

salary of D =  $31000$

Other incomes of E =  $32000 + 1500 + 2000 = 6700$

4 times of the other income =  $6700 \times 4 = 26800$

salary of E =  $25000$

2 employees (B and C) have their salary more than four times their other incomes.

Question 57

As per data in the table, what is the percentage of students who got 20 or more marks?

Scores	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40
No.of students	13	15	18	12	14	19	6	3

- A 14%
- B 58%
- C 54%
- D 42%

Answer: D

Explanation:

Number of students who got 20 or more marks =  $14 + 19 + 6 + 3 = 42$

Total student =  $13 + 15 + 18 + 12 + 14 + 19 + 6 + 3 = 100$

Percentage of students who got 20 or more marks =  $\frac{42}{100} \times 100 = 42\%$

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Question 58

The value of  $\frac{\tan 30^\circ + \tan 60^\circ}{\cos 30^\circ}$  is:

- A  $1 + \sqrt{3}$
- B  $\frac{8}{\sqrt{3}}$
- C  $\frac{8}{3}$
- D  $\sqrt{3} + 3$

Answer: C

Explanation:

$$\frac{\tan 30^\circ + \tan 60^\circ}{\cos 30^\circ}$$

put the value in the above expression,

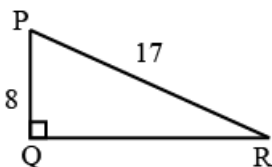
$$= \frac{\frac{1}{\sqrt{3}} + \sqrt{3}}{\frac{\sqrt{3}}{2}}$$

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

$$= \frac{8}{3}$$

Question 59

In the figure, what is the value of  $\cot \theta$ ?



- A  $\frac{17}{18}$
- B  $\frac{15}{17}$
- C  $\frac{15}{8}$
- D  $\frac{8}{15}$

Answer: C

**Question 60**

A can finish a work in 20 days and B can finish the same work in 25 days. They begin together, but B left the work after 5 days. How many more days will A take to finish the remaining work?

- A 11
- B 8
- C 16
- D 21

Answer: A

**Explanation:**

Let the total work be 100 units.

( $\because$  LCM of 20 and 25 is 100.)

Efficiency of A = work/time =  $100/20 = 5$  unit/day

Efficiency of B =  $100/25 = 4$  unit/day

Work done by A and B in 5 days = efficiency  $\times$  times =  $(4 + 5) \times 5 = 45$  units

Remaining work =  $100 - 45 = 55$  units

Time taken by A to complete 55 units work =  $55/5 = 11$  days

## General Science Notes for SSC CGL

**Question 61**

The curved surface area of a hemisphere with radius 7 cm is: (Take  $\pi = \frac{22}{7}$ )

- A  $616 \text{ cm}^2$
- B  $385 \text{ cm}^2$
- C  $462 \text{ cm}^2$
- D  $308 \text{ cm}^2$

Answer: D

**Explanation:**

The curved surface area of a hemisphere =  $2\pi r^2$

$$= 2 \times \frac{22}{7} \times 7 \times 7 = 308 \text{ cm}^2$$



**Question 62**

The value of  $36 \div 21 \div 3 \text{ of } 7 + 24 \times 6 \div 18 + 3 \div (2-6) - (4+3 \times 2) \div 8$  is:

- A 7
- B  $7\frac{1}{2}$
- C  $8\frac{1}{2}$
- D  $\frac{1}{7}$

**Answer: A**

**Explanation:**

$$\begin{aligned}
 & 36 \div 21 \div 3 \text{ of } 7 + 24 \times 6 \div 18 + 3 \div (2-6) - (4+3 \times 2) \div 8 \\
 & = 36 \div 252 \times 7 + 24 \times 6 \div 18 + 3 \div (2-6) - (4+3 \times 2) \div 8 \\
 & = 36 \div 252 \times 7 + 24 \times 6 \div 18 + 3 \div (-4) - (10) \div 8 \\
 & = 36 \times \frac{1}{252} \times 7 + 24 \times 6 \times \frac{1}{18} - 3 \times \frac{1}{4} - (10) \times \frac{1}{8} \\
 & = 1 + 8 - \frac{3}{4} - \frac{5}{4} \\
 & = 1 + 8 - 2 = 7
 \end{aligned}$$

**Question 63**

From the following table, how many patients were in the age group 40-60?

Age(years)	less than 10	less than 20	less than 30	less than 40	less than 50	less than 60	less than 70
No.of patients	11	15	22	29	35	45	50

- A 45
- B 29
- C 95
- D 80

**Answer: D**

**Explanation:**

Required number = 35 + 45 = 80

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**Question 64**

The number of students enrolled in different faculties in a school is as follows:

Science		Arts		Commerece		Vocational	
Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys
35	18	25	47	45	40	10	30

The percentage of students studying in Science and Vocational subjects is:

- A 93%

- B 50%
- C 37.2%
- D 25%

Answer: C

**Explanation:**

Number of student in science and Vocational subjects =  $35 + 18 + 10 + 30 = 93$

Total student =  $35 + 18 + 25 + 47 + 45 + 40 + 10 + 30 = 250$

The percentage of students studying in Science and Vocational subjects =  $\frac{93}{250} \times 100 = 37.2\%$

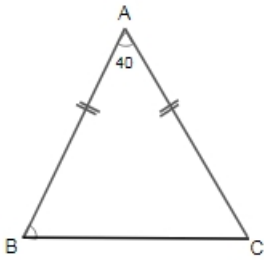
**Question 65**

In  $\triangle ABC$ , if  $AB = AC$  and  $\angle BAC = 40^\circ$ , then the measure of  $\angle B$  is:

- A  $60^\circ$
- B  $40^\circ$
- C  $70^\circ$
- D  $50^\circ$

Answer: C

**Explanation:**



By the property,

When  $AB = AC$  then  $\angle ABC = \angle ACB$

We know that,

$$\angle ABC + \angle ACB + \angle BAC = 180^\circ$$

$$2\angle ABC = 180^\circ - 40^\circ$$

$$\angle ABC = 140/2 = 70^\circ$$

**Question 66**

What should replace \* in the number  $94*2357$ , so that number is divisible by 11?

- A 1
- B 7
- C 8
- D 3

Answer: D

**Explanation:**

If the number  $94*2357$  is divisible by 11 then sum of all alternative digit will be equal. So,

$$9 + * + 3 + 7 = 4 + 2 + 5$$

$$* = 11 - 19 = -8$$

The value of  $*$  =  $11 - 8 = 3$

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### Question 67

Two numbers are in the ratio 5 : 7. If the first number is 20, then the second number will be:

- A 8
- B 22
- C 28
- D 18

**Answer:** C

#### Explanation:

Let the two numbers be  $5x$  and  $7x$ .

According to question,

$$5x = 20$$

$$x = 4$$

$$\text{Second number} = 7 \times 4 = 28$$

### Question 68

If the difference between 62% and 80% of a number is 198, then the difference between 92% and 56% of the number will be:

- A 1100
- B 3564
- C 396
- D 360

**Answer:** C

#### Explanation:

$$\text{Difference between } 62\% \text{ and } 80\% = 198$$

$$18\% = 198$$

$$\text{Difference between } 92\% \text{ and } 56\% = 36\%$$

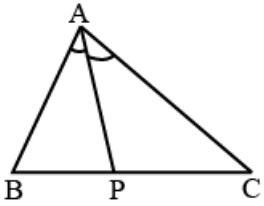
$$18\% \times 2 = 198 \times 2$$

$$36\% = 396$$

$$\text{Difference between } 92\% \text{ and } 56\% = 396$$

Question 69

In the given figure, AP bisects  $\angle BAC$ . If  $AB = 4$  cm,  $AC = 6$  cm and  $BP = 3$  cm, then the length of CP is:



- A 3 cm
- B 7 cm
- C 5 cm
- D 4.5 cm

Answer: D

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Question 70

A dealer sold 6 sewing machines for ₹63,000 with a profit of 5%. For how much should he sell 8 machines if he intends to earn 15% profit?

- A ₹88,200
- B ₹69,300
- C ₹92,000
- D ₹92,400

Answer: C

Explanation:

Selling price 6 sewing machines = 63,000

Profit = 5%

$$\text{Cost price 6 sewing machines} = \frac{63000}{105} \times 100 = 60000$$

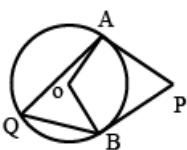
$$\text{Cost price 1 sewing machine} = 60000/6 = 10000$$

$$\text{After 15% profit, selling price of 1 sewing machine} = 10000 \times \frac{115}{100} = 11500$$

$$\text{Selling price of 1 sewing machine} = 11500 \times 8 = \text{Rs. } 92,000$$

Question 71

In the given figure, AP and BP are tangents to a circle with centre O. If  $\angle APB = 62^\circ$  then the measure of  $\angle AQB$  is:



- A  $28^\circ$
- B  $118^\circ$

C  $31^\circ$

D  $59^\circ$

Answer: D

**Question 72**

The value of  $27a^3 - 2\sqrt{2}b^3$  is equal to:

A  $(3a - \sqrt{2}b)(9a^2 - 2b^2 + 6\sqrt{2}ab)$

B  $(3a - \sqrt{2}b)(9a^2 + 2b^2 + 6\sqrt{2}ab)$

C  $(3a - \sqrt{2}b)(9a^2 + 2b^2 + 3\sqrt{2}ab)$

D  $(3a - \sqrt{2}b)(9a^2 - 2b^2 - 3\sqrt{2}ab)$

Answer: C

**Explanation:**

$$27a^3 - 2\sqrt{2}b^3 = (3a - \sqrt{2}b)(9a^2 + 2b^2 + 6\sqrt{2}ab)$$

$$(\because a^3 - b^3 = (a - b)(a^2 + ab + b^2))$$

here,

$$a = 3a$$

$$b = \sqrt{2}b$$

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**Question 73**

In a circle with radius 5 cm, a chord is at a distance of 3 cm from the centre. The length of the chord is:

A 3 cm

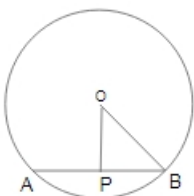
B 7 cm

C 8 cm

D 4 cm

Answer: C

**Explanation:**



$\triangle OPB$  is right angle triangle.

( $\because$  radius cuts the chord at right angle and equal parts.)

From the Pythagoras theorem,

$$(OB)^2 = (OP)^2 + (PB)^2$$

$$5^2 = 3^2 + (PB)^2$$

$$(PB)^2 = 25 - 9 = 16$$

$$PB = 4$$

$$AB = 2PB = 2 \times 4 = 8 \text{ cm}$$

∴ The length of the chord is 8 cm.

#### Question 74

A person marked his goods at a price that would give him 40% profit but he declared a sale and allowed 20% discount on the marked price. What is the profit percentage of the person in the whole transaction ?

- A 12%
- B 32%
- C 30%
- D 20%

**Answer: A**

#### Explanation:

Let the cost price be Rs. 100.

Profit = 40%

$$\text{Selling price} = 100 \times \frac{140}{100} = 140$$

Discount after sale = 20%

$$\text{Selling price after sale} = 140 \times \frac{80}{100} = 112$$

$$\text{Profit after sale} = 112 - 100 = 12$$

$$\text{Profit percentage} = \frac{12}{100} \times 100 = 12\%$$

#### Question 75

The simple interest on a certain sum at the end of three years at 5% p.a. is ₹1,200. The compound interest on the same sum for the same period at the same rate is (interest compounded yearly):

- A ₹1,800
- B ₹1,261
- C ₹820
- D ₹1,260

**Answer: B**

#### Explanation:

Rate (r) = 5%

Time (t) = 3

Interest = 1200

Principle = p

$$\text{Interest} = \frac{prt}{100}$$

$$1200 = \frac{p \times 5 \times 3}{100}$$

p = Rs. 8000

$$\text{Compound interest} = p \left(1 + \frac{r}{100}\right)^t - p$$

$$= 8000\left(1 + \frac{5}{100}\right)^5 - 8000$$

$$= \$8000 \times \frac{105}{100} \times \frac{105}{100} \times \frac{105}{100} \times \frac{105}{100} \times \frac{105}{100} - 8000$$

$$= 2083725 - 8000$$

Compound interest = 9261 - 8000 = Rs. 1261

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### English Comprehension

#### Instructions

For the following questions answer them individually

#### Question 76

Select the INCORRECTLY spelt word.

- A Patrner
- B Piteous
- C Pierce
- D Pursue

Answer: A

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#### Question 77

In the sentence identify the segment which contains the grammatical error.

Deepa walked down the road slowly without looking anybody.

- A down the road
- B slowly without
- C looking anybody
- D Deepa walked

Answer: C

#### Question 78

Select the INCORRECTLY spelt word.

- A Negligible
- B Negotiate
- C Necessary
- D Nuisance

Answer: B

**Question 79**

Select the option that expresses the given sentence in reported speech.  
She said to me, "What time is your flight tomorrow?"

- A She asked me what time is my flight the next day.
- B She asked me what time my flight will be the next day.
- C She asked me what time my flight was the following day.
- D She asked me that what time was my flight tomorrow.

**Answer: C**

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**Question 80**

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

My shoes were worn out so I had to buy a new one.

- A a new ones
- B new ones
- C No improvement
- D the new one's

**Answer: B**

**Question 81**

Select the most appropriate meaning of the given idiom.

**Blow one's own trumpet**

- A Follow others
- B Praise oneself
- C Condemn others
- D Be self-reliant

**Answer: B**

**Instructions**

In the following passage, some words have been deleted. Select the most appropriate option to fill each blank.

**Comprehension:**

Watermelon is thought to have originated in Africa's Kalahari Desert. Believe it (1)\_\_\_\_\_ not, the first recorded watermelon harvest (2)\_\_\_\_\_ nearly 5000 years ago in Egypt and is (3)\_\_\_\_\_ in Egyptian hieroglyphics on the walls of their (4)\_\_\_\_\_ buildings. This fruit was often placed (5)\_\_\_\_\_ the burial tombs of kings to provide nourishment in the afterlife.

**Question 82**

Select the most appropriate option to fill in blank 1.

- A but



- B or
- C and
- D if

Answer: B

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Question 83

Select the most appropriate option to fill in blank 2.

- A contained
- B produced
- C discovered
- D occurred

Answer: D

Question 84

Select the most appropriate option to fill in blank 3.

- A depicted
- B diverted
- C distributed
- D directed

Answer: A

Question 85

Select the most appropriate option to fill in blank 4.

- A obsolete
- B outdated
- C ancient
- D elderly

Answer: C

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Question 86

Select the most appropriate option to fill in blank 5.

- A along
- B with

C in

D after

**Answer: C**

**Instructions**

For the following questions answer them individually

**Question 87**

Select the most appropriate one word substitution for the given group of words.

A place where clothes are kept

A Coffin

B Wardrobe

C Hangar

D Shaft

**Answer: B**

**Question 88**

In the sentence identify the segment which contains the grammatical error.

Everything that I like to eat are fattening.

A Everything that

B I like

C are fattening

D to eat

**Answer: C**

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**Instructions**

Select the most appropriate antonym of the given word.

**Question 89**

**VIGILANT**

A Wary

B Rash

C Alert

D Cautious

**Answer: B**

**Question 90**

**FLEXIBLE**

- A Supple
- B Stiff
- C Stale
- D Soft

Answer: B

**Instructions**

For the following questions answer them individually

**Question 91**

Select the most appropriate option to fill in the blank.

The government has warned the traders not to \_\_\_\_\_ onions.

- A hoard
- B combine
- C gross
- D bulk

Answer: A

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**Question 92**

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

He sing always when he is having a shower.

- A He always sings
- B He always sing
- C No improvement
- D Always he is singing

Answer: A

**Question 93**

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

- A. He then called out to the people but by then only a red glow was visible in the sky.
- B. At first, he thought it was a stuck kite.
- C. Bheema was visiting his fields when he spotted a rising disc shaped object.
- D. But when it started rising higher and emitted light, he was shocked.

- A BACD
- B BDAC
- C CDAB
- D CBDAPlead

Answer: D

Question 94

Select the most appropriate synonym of the given word.

**IMPLORE**

- A Command
- B Honour
- C Plead
- D Refuse

Answer: C

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Question 95

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

- A. It requires physical endurance, which can be built with training and exercise.
- B. Truly strong personalities meet challenges of life bravely and face hardships with equanimity.
- C. However, strength of character is a personality trait or a quality.
- D. Physical strength is the ability to cope with a physically challenging task.

- A CBAD
- B BACD
- C DACB
- D DBCA

Answer: C

Question 96

Select the most appropriate option to fill in the blank.

The students went to their \_\_\_\_\_ classes after the morning assembly.

- A respected
- B respective
- C respectable
- D respectful

Answer: B

Question 97

Select the option that expresses the given sentence in passive voice.

Martin drew a picture of the snow-capped mountains.

- A A picture of the snow-capped mountains has been drawn by Martin.
- B A picture of the snow-capped mountains was drawn by Martin.

- C A picture of the snow-capped mountains is drawn by Martin.
- D A picture of the snow-capped mountains is being drawn by Martin.

Answer: B

## SSC CGL Important Questions PDF

### Question 98

Select the most appropriate meaning of the given idiom.

**Spill the beans**

- A Perform magic
- B Work hard
- C Waste money
- D Give away a secret

Answer: D

### Question 99

Select the most appropriate one word substitution for the given group of words.

**A person very reserved in speech**

- A Confident
- B Reticent
- C Eloquent
- D Adamant

Answer: B

### Question 100

Select the most appropriate synonym of the given word.

**GLORIOUS**

- A splendid
- B unusual
- C enormous
- D gentle

Answer: A

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