



## SSC CGL 7th March 2020 Shift-1

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# General Intelligence and Reasoning

## Instructions

For the following questions answer them individually

### Question 1

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.

A  $\frac{4}{5} : 3$

B  $\frac{16}{20} : 6$

C  $\frac{25}{41} : 8$

D  $\frac{30}{51} : 9$

Answer: C

#### Explanation:

In option A,

$$4 + 5 = 9 = 3^2$$

In option B,

$$16 + 20 = 36 = 6^2$$

In option C,

$$25 + 41 = 66 \neq 8^2$$

In option D,

$$30 + 51 = 81 = 9^2$$

∴ The correct answer is option C.

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### Question 2

A private taxi company charges a fixed charge along with a per kilometre charge based on the distance covered. For a journey of 24 km, the charges paid are ₹368 and for a journey of 32 km, the charges paid are ₹464. How much will a person have to pay for travelling a distance of 15 km?

A ₹280

B ₹180

C ₹260

D ₹290

Answer: C

#### Explanation:

$$\text{Charge for 24 km} = 368$$

$$\text{Charge for 32 km} = 464$$

$$\text{Difference in km} = 32 - 24 = 8 \text{ km}$$

$$\text{Charge for 8 km} = 464 - 368 = 96$$

$$\text{Charge for 1 km} = 96/8 = \text{Rs. } 12$$

$$\text{Fixed charge} = 368 - 12 \times 24 = 368 - 288 = 80$$

$$\text{Charge for 15 km} = 80 + 12 \times 15 = 80 + 180 = \text{Rs. } 260$$

∴ The correct answer is option C.

**Question 3**

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

- A Shout
- B Mumble
- C Roar
- D Scream

**Answer: B**

**Explanation:**

Except option B, remaining all have same meaning.  
∴ The correct answer is option B.

**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 and the sixth number is related to the fifth number.

6: 16 :: 20 : ? :: 11 : 81

- A 361
- B 324
- C 120
- D 91

**Answer: B**

**Explanation:**

$6 - 2 = 4$   
 $(4)^2 = 16$   
 $11 - 2 = 9$   
 $(9)^2 = 81$   
Similarly,  
 $20 - 2 = 18$   
 $(18)^2 = 324$

∴ The correct answer is option B.

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**Question 5**

Select the option that is related to the third word in the same way as the second word is related to the first word.

Amusing: Humorous :: Moisture: ?

- A Soak
- B Water
- C Dry
- D Humid

**Answer: A**

**Explanation:**

Amusing and hilarious have same meaning.

Similarly,

Moisten and soak have same meaning.

∴ The correct answer is option A.

### Question 6

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. Some cars are buses.
2. Some buses are trucks.
3. Some trucks are scooters

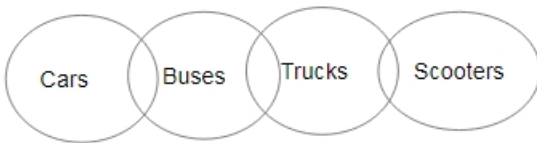
**Conclusions:**

- I. Some cars are scooters.
- II. Some trucks are buses.
- III. Some scooters are buses
- IV. All scooters are trucks.

- A Only conclusions I and II follow.  
B All the conclusions follow.  
C Only conclusions II and IV follow.  
D Only conclusion II follows.

**Answer: D**

**Explanation:**



From the Venn diagram,  
Only conclusion II follows.

∴ The correct answer is option D.

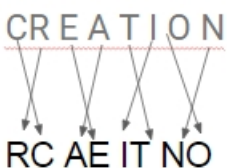
### Question 7

In a certain code language, 'CREATION' is written as RCAEITNO. How will 'SEQUENCE' be written as in that language?

- A ESUQENEC  
B QESEUENC  
C QESEUCNE  
D ESUQNEEC

**Answer: D**

**Explanation:**



Similarly,

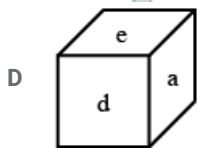
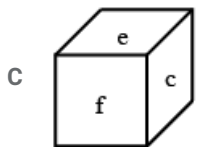
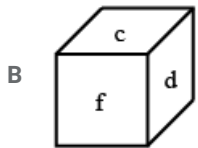
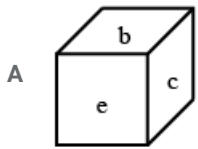
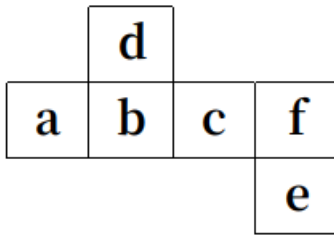
SEQUENCE  
 ↙ ↘ ↙ ↘ ↙ ↘  
 ES UQ NE EC

∴ The correct answer is option D.

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### Question 8

Select the box that CANNOT be formed by folding the given unfolded box.



Answer: D

### Question 9

Select the correct combination of mathematical signs to sequentially replace the \* signs, to balance the following equation.  
 $(14 * 9 * 6) * 15 * 8$

A  $-. \div, \times, =$

B  $\times, -, \div, =$

C  $\div, -, = . \times$

D  $\times, =, \div, -$

Answer: B

**Explanation:**

$$(14 * 9 * 6) * 15 * 8$$

From the option C,

$$(14 \times 9 - 6) \div 15 = 8$$

$$120 \div 15 = 8$$

$$8 = 8$$

∴ The correct answer is option B.

**Question 10**

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

A SVY

B XAD

C FIK

D NQT

**Answer: C**

**Explanation:**

$$S + 3 = V + 3 = Y$$

$$X + 3 = A + 3 = D$$

$$F + 3 = I + 2 = K$$

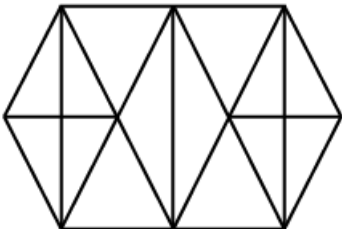
$$N + 3 = Q + 3 = T$$

∴ The correct answer is option C.

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**Question 11**

How many triangles are present in the given figure?



A 26

B 28

C 30

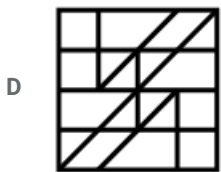
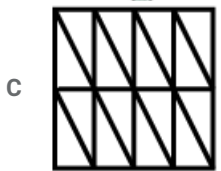
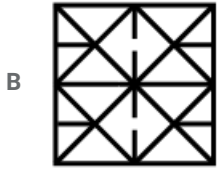
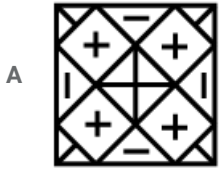
D 22

**Answer: C**

**Question 12**

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





Answer: D

Question 13

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

17, 19, 22, 27, 34, 45, 58, ?

A 67

B 78

C 75

D 73

Answer: C

Explanation:

The series follows pattern as,

$$17 + 2 = 19$$

$$19 + 3 = 22$$

$$22 + 5 = 27$$

$$27 + 7 = 34$$

$$34 + 11 = 45$$

$$45 + 13 = 58$$

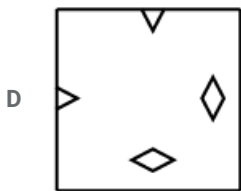
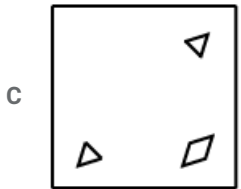
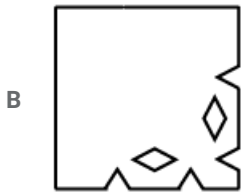
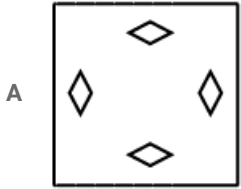
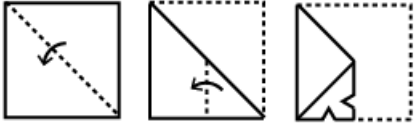
$$58 + 17 = 75$$

∴ The correct answer is option C.

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Question 14

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: B

Question 15

Select the set of letters that when sequentially placed in the blanks of the given letter series will complete the series.  
P\_rsqrps\_pqs\_qr\_qrps\_p\_s

A q,r,p,s,r,q

B q,r,p,p,r,q

C p,r,p,s,r,p

D r,p,q,s,r,q

Answer: A

Explanation:

Pqrs/qrps/rpqs/pqrs/qrps/rpqs

∴ The correct answer is option A



Question 16

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

29	71	67
8	11	14
4	7	?
3	6	3

A 4

B 3

C 5

D 6

Answer: C

Explanation:

$$\begin{aligned} 29+3 &= 32 \\ 8 &= 8 = 4 \\ 71+6 &= 77 \\ 11 &= 11 = 7 \\ 67+3 &= 70 \\ 14 &= 14 = 5 \end{aligned}$$

∴ The correct answer is option C.

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Question 17

Select the option in which the numbers are related in the same way as are the numbers in the given set.

17 : 102 : 153

A 23 : 162 : 207

B 18 : 104 : 171

C 13 : 78 : 108

D 16 : 96 : 144

Answer: D

Explanation:

In 17 : 102 : 153,

$$17 \times 6 = 102$$

$$17 \times 9 = 153$$

Similarly,

In 16 : 96 : 144,

$$16 \times 6 = 96$$

$$16 \times 9 = 144$$

∴ The correct answer is option D.

Question 18

Arrange the following words in the order in which they appear in an English dictionary.

1. Decipher
2. Decide
3. Decline
4. Deceive
5. Decimal
6. Decision

- A 4, 2, 5, 1, 6, 3
- B 4,3, 2, 1, 5,6
- C 4; 5, 2, 1,6,3
- D 3,5,4,1,6,2

Answer: A

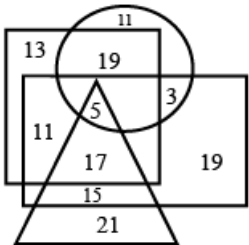
**Explanation:**

Arrangement of word according to the English dictionary,  
 Deceive, Decide, Decimal, Decipher, Decision, Decline  
 ∴ The correct answer is option A.

**Question 19**

The given Venn diagram represents results of a class of students:

The triangle represents students who scored 85% and above in Maths, the circle represents students who scored 85% and above in English, the rectangle represents students who scored 85% and above in Science, and the square represents students who scored 85% and above in Social Sciences. The numbers given in the diagram represent the number of students in that particular category.



How many students scored 85% and above in all the subjects?

- A 11
- B 5
- C 15
- D 17

Answer: B

## General Science Notes for SSC CGL

**Question 20**

Select the letter-cluster that can replace the question mark (?) in the following series.  
 eBd, hXi, kTn, nPs, ?

- A qKx
- B Qlv
- C qLx
- D pLw

Answer: C

**Explanation:**

The series follows pattern as,

$$(e + 3)(B + 22)(d + 5) = hXi,$$

$$(h + 3)(X + 22)(i + 5) = kTn,$$

$$(k + 3)(T + 22)(n + 5) = nPs,$$

$$(n + 3)(P + 22)(s + 5) = qLx$$

∴ The correct answer is option C.

#### Question 21

In a certain code language, CIRCULAR is coded as 24-8-9-24-6-15-5-9, How will VERTICAL be coded as in that language?

- A 22-4-9-7-3-23-1-15
- B 22-4-9-7-9-24-5-15
- C 5-4-9-7-18-24-5-15
- D 5-2-9-7-3-24-5-15

**Answer: C**

#### Explanation:

$$C = 27 - 3 = 24$$

$$I = 9 - 1 = 8$$

$$R = 27 - 18 = 9$$

$$C = 27 - 3 = 24$$

$$U = 27 - 21 = 6$$

$$L = 27 - 12 = 15$$

$$A + 4 = 5$$

$$R = 27 - 18 = 9$$

Similarly,

$$V = 27 - 22 = 5$$

$$E = 5 - 1 = 4$$

$$R = 27 - 18 = 9$$

$$T = 27 - 20 = 7$$

$$I = 27 - 9 = 18$$

$$C = 27 - 3 = 24$$

$$A + 4 = 5$$

$$L = 27 - 12 = 15$$

VERTICAL is coded as 5-4-9-7-18-24-5-15.

∴ The correct answer is option C.

#### Question 22

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

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

$A \times B$  means 'A is son of B';

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

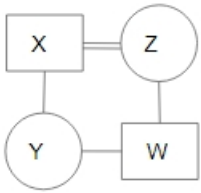
If  $W \times Z + Y \div X$ , then how is X related to Z?

- A Dauter
- B Wife
- C Son
- D Husband

**Answer: D**

#### Explanation:

In the diagram, square shows the males, circle shows the females, vertical lines shows the generation, single horizontal lines shows the brother/sister and double horizontal lines shows the couples.



From the diagram,  
 X is the husband of Z.  
 ∴ The correct answer is option D.

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### Question 23

Which of the option figures is the exact mirror image of the given figure when the mirror is held at the right side?

BRWOQWRB

- A BꞤMOꞤMBꞤ
- B BꞤWOꞤWRB
- C BꞤWOꞤWRB
- D BꞤWOꞤWRB

Answer: B

### Question 24

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

Bacteria : Illness

- A Appraisal : Performance
- B Painting : Painter
- C Carelessness : Errors
- D Disease : Doctor

Answer: C

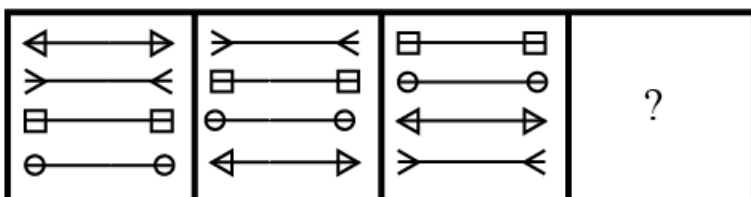
#### Explanation:

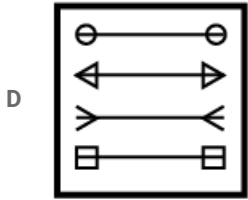
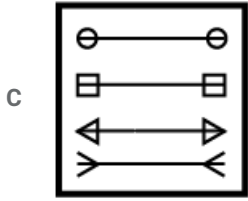
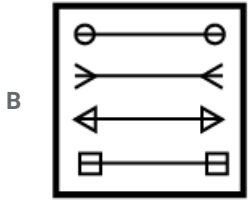
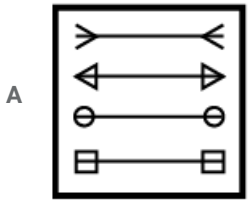
Bacteria causes of illness Similarly,  
 Carelessness is causes of errors.

∴ The correct answer is option C.

### Question 25

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





Answer: B

## SSC Exam Free Videos (Youtube)

### General Awareness

#### Instructions

For the following questions answer them individually

#### Question 26

For which game has the Father of Leander Paes been a member of the Indian National Team?

- A Basketball
- B Hockey
- C Tennis
- D Badminton

Answer: B

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#### Question 27

What does 'T' stand for in ATM?

- A Transfer

- B Teller
- C Transaction
- D Trunk

**Answer: B**

**Question 28**

The Council of Ministers during the time of Shivaji Maharaj was known as:

- A Ashta Diggajas
- B Ashta Pradhan
- C Navaratnas
- D Agraharam

**Answer: B**

**Question 29**

The power of a lens is  $-2.0$  D. Here 'D' stands for:

- A dilation
- B diopetre
- C degree
- D distance

**Answer: B**

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**Question 30**

Which of the following pairs is CORRECT with reference to mountain passes?

- A Rohtang - Sikkim
- B Nathula - Arunachal Pradesh
- C Bomdila - Himachal Pradesh
- D Lipulekh - Uttarakhand

**Answer: D**

**Question 31**

In which year was the first amendment to the Constitution of India made?

- A 1952
- B 1951
- C 1953

D 1950

Answer: B

Question 32

The Indian National Congress session of September 1920 was held at .....

A Madras

B Lucknow

C Calcutta

D Nagpur

Answer: C

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Question 33

Select the correct pair of dance form and its state.

A Kalbelia - Himachal Pradesh

B Thang Ta - Bihar

C Padayani - Kerala

D Dalkhai - Karnataka

Answer: C

Question 34

Which of the following rivers forms the Dhuandhar waterfall near Jabalpur?

A Narmada

B Tapi

C Luni

D Tungabhadra

Answer: A

Question 35

Which among the following is a cation?

A Ammonium

B Iodide

C Chloride

D Fluoride

Answer: A

## SSC CHSL Previous Question papers (download pdf)

### Question 36

In December 2019, the Rohtang passageway in Himachal Pradesh was renamed as:

- A Swaraj Tunnel
- B Bose Tunnel
- C Mukherjee Tunnel
- D Atal Tunnel

Answer: D

### Question 37

Who is the author of the book 'Wise and Otherwise: A Salute to Life'?

- A Amrita Pritam
- B Zoya Hasan
- C Sudha Murthy
- D Kiran Desai

Answer: C

### Question 38

Which Indian male cricketer won the BCCI CK Nayudu Lifetime Achievement Award for the year 2019?

- A Sunil Gavaskar
- B Sachin Tendulkar
- C K Srikanth
- D Rahul Dravid

Answer: C

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### Question 39

Which among the following has its refractive index closest to that of crown glass?

- A Diamond
- B Ruby
- C Sapphire
- D Canada balsam

Answer: D



**Question 40**

Pradhan Mantri Jeevan Jyoti Bima Yojana offers a protection term insurance cover of \_\_\_\_\_ to the insurer

- A ₹4 Lakh
- B ₹8 Lakh
- C ₹2 Lakh
- D ₹5 Lakh

**Answer: C**

**Question 41**

With reference to the Vedangas, which of the following terms denotes 'Ritual'?

- A Kalpa
- B Shiksha
- C Vyakarana
- D Chanda

**Answer: A**

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**Question 42**

Pravasi Bharatiya Divas is celebrated on:

- A 1st January
- B 8th January
- C 9th January
- D 2nd January

**Answer: C**

**Question 43**

Which of the following Articles of the Constitution of India guarantees the Right to Freedom of Religion?

- A Articles 19-22
- B Articles 23-24
- C Articles 14-18
- D Articles 25-28

**Answer: D**

**Question 44**

Which among the following is NOT an insulator?

- A Ebonite
- B Dry Paper
- C Mercury
- D Glass

Answer: C

## SSC CGL Free Mock Test

Question 45

Where is the Dharmraja Ratha monument located?

- A Kanchipuram
- B Khajuraho
- C Suchindram
- D Mahabalipuram

Answer: D

Question 46

The scientific study of a cell is called:

- A cytology
- B histology
- C physiology
- D taxonomy

Answer: A

Question 47

Who was appointed as brand ambassador of Visa - the payment technology company in 2019?

- A PT Usha
- B Dutee Chand
- C P.V. Sindhu
- D Sania Mirza

Answer: C

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Question 48

The Pritzker prize is an international award given to recognise contribution in the field of \_\_\_\_\_.

- A literature
- B mathematics
- C medicine
- D architecture

Answer: D

**Question 49**

Which of the following states does NOT share its boundary with Bangladesh?

- A Meghalaya
- B Manipur
- C Tripura
- D Assam

Answer: B

**Question 50**

Which of the following monasteries is located in Sikkim?

- A Tabo
- B Hemis
- C Rumtek
- D Kye

Answer: C

## SSC CGL Tier-2 Previous Papers PDF

### Quantitative Aptitude

**Instructions**

For the following questions answer them individually

**Question 51**

The value of  $\frac{1-2\sin^2\theta\cos^2\theta}{\sin^4\theta+\cos^4\theta} - 1$  is:

- A -1
- B 1
- C  $-2\sin^2\theta\cos^2\theta$
- D 0

Answer: D

**Explanation:**

$$\begin{aligned} & \frac{1-2\sin^2\theta\cos^2\theta}{\sin^4\theta+\cos^4\theta} - 1 \\ &= \frac{1-2\sin^2\theta\cos^2\theta-\sin^4\theta-\cos^4\theta}{\sin^4\theta+\cos^4\theta} \\ &= \frac{1-(\sin^2\theta+\cos^2\theta)^2}{\sin^4\theta+\cos^4\theta} \\ &= \frac{1-1}{\sin^4\theta+\cos^4\theta} = 0 \end{aligned}$$

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**Question 52**

From the given table, what is the percentage of students scoring 40 or more, but less than 70.

Scores	less than 20	less than 30	less than 40	less than 50	less than 60	less than 70	less than 80
No. of students	12	19	22	31	38	46	50

- A 52.75%
- B 54.75%
- C 44.75%
- D 56%

**Answer: A**

**Explanation:**

Total number of students scoring 40 or more but less than 70 = 31 + 38 + 46 = 115

Total number of students = 12 + 19 + 22 + 31 + 38 + 46 + 50 = 218

Percentage of students scoring 40 or more but less than 70 =  $\frac{115}{218} \times 100 = 52.75$

**Question 53**

The value of  $3 - (9 - 3 \times 8 \div 2)$  is

- A -21
- B 6
- C 0
- D  $\frac{21}{2}$

**Answer: B**

**Explanation:**

$$3 - (9 - 3 \times 8 \div 2)$$

Solve using by BODMAS,

$$= 3 - (9 - 3 \times 4)$$

$$= 3 - (9 - 12)$$

$$= 3 + 3 = 6$$

**Question 54**

The coefficient of  $y$  in the expansion of  $(2y - 5)^3$ , is:

- A 150
- B 50
- C -30
- D -150

Answer: A

Explanation:

$$(2y - 5)^3$$

$$= 8y^3 - 125 + 150y - 60y^2$$

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

The coefficient of y = 150

## SSC CGL Important Questions PDF

Question 55

In a school, the distribution of teachers is as follows:

Age(years)	20-25	25-30	30-35	35-40	40-45	45-50	50-55
No.of Teachers	2	3	5	2	6	7	5

The total number of teachers of age less than 40 years is:

- A 12
- B 10
- C 39
- D 18

Answer: A

Explanation:

The total number of teachers of age less than 40 years = 2 + 3 + 5 + 2 = 12

Question 56

Ten men or twelve women can finish the same work in 10 days. If 5 men and 2 women undertake the work together, how many days will they take to complete the work?

- A 15
- B 40
- C 20
- D 60

Answer: A

Explanation:

Total work = time  $\times$  (men + women)

Ten men or twelve women can finish the same work in 10 days so,

$$10m \times 10 = 12w \times 10$$

$$5m = 6w$$

Let time taken to complete same work by 5 men and 2 women be  $d$  days.

Total work done by 5 men and 2 women =  $(5m + 2w) \times d$

$$12w \times 10 = (6w + 2w) \times d$$

$$d = 120/8 = 15 \text{ days}$$

$\therefore$  They will completed the same work in 15 days.

#### Question 57

In an examination, Anita scored 31% marks and failed by 16 marks. Sunita scored 40% marks and obtained 56 marks more than those required to pass. Find the minimum marks required to pass.

A 3116

B 264

C 3944

D 7100

**Answer: B**

#### Explanation:

Anita scored 31% marks and failed by 16 marks and Sunita scored 40% marks and obtained 56 marks more than those required to pass.

Difference of percentage = difference of marks

$$40\% - 31\% = 16 + 56 \text{ (Anita is failed and Sunita is passed so marks will be added)}$$

$$9\% = 72 \text{ marks}$$

$$56 \text{ marks} = \frac{9}{72} \times 72 = 7$$

Sunita scored 40% marks and obtained 56 marks more than those required to pass so,

$$\text{Minimum passing marks} = 40\% - 7\% = 33\%$$

$$7\% = 56 \text{ marks}$$

$$33\% = \frac{56}{7} \times 33 = 264$$

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#### Question 58

If the given number  $925x85$  is divisible by 11, then the smallest value of  $x$  is:

A 1

B 2

C 3

D 4

**Answer: D**

#### Explanation:

For the divisibility by 11, the sum of the alternative digits should be equal so,

$$9 + 5 + 8 = 2 + x + 5$$

$$x = 15$$

$$\text{Smallest value of } x = 15 - 11 = 4$$

**Question 59**

Two cars A and B leave Delhi at 8:30 a.m. and at 9 a.m. for Shimla, respectively. They travel at the speeds of 40km/h and 50 km/h respectively. How many kilometres away from Delhi will the two cars be together?

- A 45 km
- B 100 km
- C 200 km
- D 5 km

**Answer: B**

**Explanation:**

Cars A and B leave Delhi at 8:30 a.m. and at 9 a.m. for Shimla, respectively so,

Distance traveled by car A in 30 min = speed  $\times$  time =  $40 \times \frac{1}{2} = 20$  km

(30 min =  $\frac{30}{60}$  hr =  $\frac{1}{2}$  hr)

Relative speed of car B =  $50 - 40 = 10$  km/hr

Time taken by car B to cover 20 km =  $\frac{20}{10} = 2$  hr

(Time = distance/speed)

Distance covered in 2 hr =  $50 \times 2 = 100$  km

$\therefore$  100 kilometers away from Delhi will the two cars be together.

**Question 60**

What is the value of  $\sin 30^\circ + \cos 30^\circ - \tan 45^\circ$ ?

- A  $\frac{\sqrt{3}-1}{2}$
- B  $\frac{\sqrt{2}+1}{\sqrt{2}}$
- C  $\frac{\sqrt{3}+1}{2}$
- D  $\frac{1-\sqrt{3}}{2}$

**Answer: A**

**Explanation:**

$\sin 30^\circ + \cos 30^\circ - \tan 45^\circ$

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

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

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

## General Science Notes for SSC CGL

**Question 61**

While selling an article of marked price ₹5,040 at a discount of 40%, if a trader gains 20%, then the profit in ₹ is:

- A ₹642
- B ₹504

C ₹720

D ₹2,520

**Answer: B**

**Explanation:**

Marked price = 5040

Discount = 40%

Selling price =  $5040 \times \frac{60}{100} = 3024$

Gain = 20%

So,  $120\% = 3024$

Profit(20%) =  $\frac{3024}{120} \times 20 = \text{Rs.}504$

**Question 62**

By selling 18 table fans for ₹11,664 a man incurs a loss of 10%. How many fans should he sell for ₹17,424 to earn 10% profit?

A 18

B 22

C 20

D 23

**Answer: B**

**Explanation:**

Selling price of 18 table fans = 11664

Loss = 10%

Cost price of 18 table fans =  $11664 \times \frac{100}{90} = 12960$

Cost price of 18 table fan =  $12960/18 = 720$

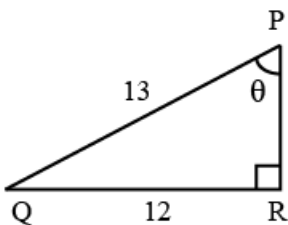
When profit is 10% then selling price = 17424

Cost price for n table fans =  $17424 \times \frac{100}{110} = 15840$

Number of fans which are sell =  $15840/720 = 22$

**Question 63**

In the given figure,  $\cos \theta$  is equal to:



A  $\frac{5}{13}$

B  $\frac{12}{13}$

C  $\frac{5}{12}$

D  $\frac{12}{5}$

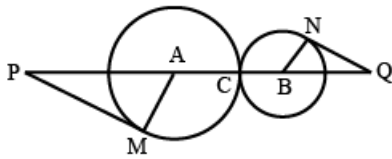
**Answer: A**



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### Question 64

In the given figure, MP is tangent to a circle with center A and NQ is a tangent to a circle with center B. If MP = 15 cm, NQ = 8 cm, PA = 17 cm and BQ = 10 cm, then AB is:

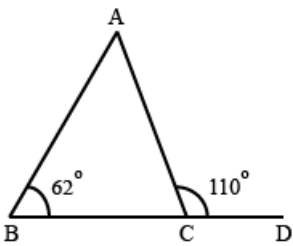


- A 28 cm
- B 14 cm
- C 13.5 cm
- D 23 cm

Answer: B

### Question 65

In the given figure, the measure of  $\angle BAC$  is:



- A  $56^\circ$
- B  $62^\circ$
- C  $58^\circ$
- D  $48^\circ$

Answer: D

### Question 66

The simple interest on a sum of ₹50,000 at the end of two years is ₹4,000. What would be the compound interest on the same sum at the same rate for the same period ?

- A ₹4,040
- B ₹4,080
- C ₹4,008
- D ₹8,000

Answer: B

**Explanation:**

Principal(p) = 50000

Interest(i) = 4000

Time(t) = 2 years

$$\text{Interest} = \frac{p \times r \times t}{100}$$

$$r = \frac{4000 \times 100}{50000 \times 2}$$

$$r = 4\%$$

$$\text{Compound interest} = p(1 + r/100)^t - p = 50000(1 + 4/100)^2 - 50000$$

$$= 50000 \times (104/100) \times (104/100) - 50000 = 54080 - 50000$$

$$= 4080$$

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**Question 67**

If  $1 - 64x^3 - 12x + px^2 = (1 - 4x)^3$ , then the value of p is:

- A 48
- B -12
- C -48
- D 16

**Answer: A**

**Explanation:**

$$1 - 64x^3 - 12x + px^2 = (1 - 4x)^3$$

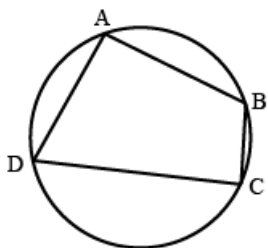
$$1 - 64x^3 - 12x + px^2 = 1 - 64x^3 - 12x + 48x^2$$

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

$$p = 48$$

**Question 68**

In the figure, if  $\angle A = 100^\circ$  then  $\angle C = ?$



- A  $50^\circ$
- B  $90^\circ$
- C  $80^\circ$
- D  $100^\circ$

**Answer: C**

Question 69

The value of  $151^2 - 149^2$  is:

- A 600
- B 300
- C  $2^2$
- D 400

Answer: A

Explanation:

$$151^2 - 149^2$$

$$= (149 + 2)^2 - 149^2$$

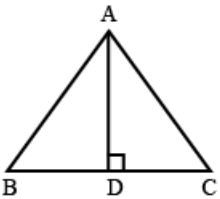
$$= 149^2 + 2^2 + 2 \times 2 \times 149 - 149^2$$

$$= 4 + 596 = 600$$

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Question 70

In the given figure,  $\triangle ABC$  is an isosceles triangle, in which  $AB = AC$ ,  $AD \perp BC$ ,  $BC = 6$  cm and  $AD = 4$  cm. The length of  $AB$  is:



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

Answer: C

Question 71

The area of the four walls of a room having length 6 m, breadth 4 m and height 4 m, is:

- A  $50 m^2$
- B  $60 m^2$
- C  $40 m^2$
- D  $80 m^2$

Answer: D

Explanation:

Length = 6 m, breadth = 4m, height = 4 m

The area of the four walls of a room =  $2(\text{length} \times \text{height}) + 2(\text{breadth} \times \text{height})$   
=  $2(6 \times 4) + 2(4 \times 4) = 48 + 32 = 80 \text{ m}^2$

**Question 72**

If  $A : B = 3 : 5$ , and  $B : C = 2 : 3$ , then  $A : B : C$  is equal to:

- A 3 : 8 : 6
- B 3 : 7 : 3
- C 6 : 10 : 15
- D 6 : 15 : 10

**Answer: C**

**Explanation:**

$A : B = 3 : 5$  ---(1) and  $B : C = 2 : 3$  ---(2)

To find the  $A : B : C$ , we will equal the common term so,

equation (1) multiply by 2 and equation (2) multiply by 5,

$A : B = 6 : 10$

$B : C = 10 : 15$

$A : B : C = 6 : 10 : 15$

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**Question 73**

Study the given table carefully and answer the question that follows.

Year	2010	2011	2012	2013	2014
Number of students that appeared for an examination	600	750	840	960	1020
Number of students passed	420	510	525	620	810
Number of students passed with distinction	120	165	210	324	450

The percentage of students who have passed with distinction in the year 2012, is:

- A 25%
- B 20%
- C 22%
- D 27%

**Answer: A**

**Explanation:**

The number of students who have passed with distinction in the year 2012 = 210

The number of students who have appeared in the year 2012 = 840

The percentage of students who have passed with distinction in the year 2012 =  $\frac{210}{840} \times 100 = 25$

**Question 74**

The average of five consecutive odd numbers is  $m$ . If the next three odd numbers are also included, then what is the increase in the average?

- A 3
- B 0
- C 17
- D 8

**Answer:** A

**Explanation:**

Let the first odd number is x. Then the five consecutive odd numbers will be

x, x+2, x+4, x+6, x+8 whose sum is

$5x + 20$  and the average will be  $(5x + 20)/5 = x + 4$  which is given to be M. So  $x = M - 4$

the next 3 odd numbers would be

x+10, x+12, x+14 whose sum is  $3x + 36$

The sum of 10 numbers is  $(5x + 20) + (3x + 36)$

$= 8x + 56$ . So the new average is  $8(x+7)/8 = x+7$

on substituting  $x = M - 4$  in new average, we get

$M - 4 + 7 = M + 3$

The new average is  $M + 3$

Increment in the average =  $m + 3 - m = 3$

**Question 75**

In a particular year, the number of students enrolled in different streams in a College is as follows:

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

The percentage of girls students is:

- A 46%
- B 50%
- C 135%
- D 54%

**Answer:** A

**Explanation:**

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

Total number of girls students =  $32 + 28 + 42 + 13 = 115$

The percentage of girls students =  $\frac{115}{250} \times 100 = 46\%$ <https://cracku.in/freelancer/questions/edit/117272#>

## SSC CGL Free Online Coaching

### English Comprehension

**Instructions**

For the following questions answer them individually

**Question 76**

Select the most appropriate synonym of the given word.

**Sacred**

- A Scarce
- B Valued
- C Holy
- D Precious

**Answer: C**

**Explanation:**

sacred means holy.

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**Question 77**

Select the most appropriate ANTONYM of the given word.

**Native**

- A Rustic
- B Urban
- C Foreign
- D Rural

**Answer: C**

**Question 78**

Select the correct passive form of the given sentence.

**The children sang the National Anthem with great enthusiasm**

- A The National Anthem was being sung with great enthusiasm by the children.
- B The National Anthem was sung with great enthusiasm by the children
- C The National Anthem has been sung with great enthusiasm by the children.
- D The National Anthem is sung with great enthusiasm by the children

**Answer: B**

**Question 79**

Select the INCORRECTLY spelt word.

- A Already
- B Awful
- C Accross
- D Alien

**Answer: C**

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### Question 80

Select the option that can be used as a one word substitute for the given group of words.

A game in which neither party wins

- A Equal
- B Draw
- C Flop
- D Quit

Answer: B

### Question 81

Select the most appropriate meaning of the given idiom.

Look down upon

- A To look down from a height
- B To be full of guilt
- C To look for something underground
- D To consider someone inferior

Answer: D

### 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:

Advertising is the promotion of goods and services. It provides an (1)\_\_\_\_\_ to the manufacturing companies to sell their (2)\_\_\_\_\_ better than their competitors. Every time we switch (3)\_\_\_\_\_ the television we find some product or the other (4)\_\_\_\_\_ pushed towards us. It cannot be denied that the (5)\_\_\_\_\_ behind commercial advertising is to increase sales and earn more profit

### Question 82

Select the most appropriate option to fill in blank number (1)

- A occasion
- B event
- C excuse
- D opportunity

Answer: D

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### Question 83

Select the most appropriate option to fill in blank number (2).

- A products
- B creation
- C outcome
- D compounds

Answer: A

**Question 84**

Select the most appropriate option to fill in blank number (3).

- A off
- B at
- C on
- D in

Answer: C

**Question 85**

Select the most appropriate option to fill in blank number (4).

- A be
- B to be
- C been
- D being

Answer: D

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**Question 86**

Select the most appropriate option to fill in blank number (5).

- A influence
- B emotion
- C motive
- D feeling

Answer: C

**Instructions**

For the following questions answer them individually

**Question 87**

Identify the segment in the sentence which contains the grammatical error. If there is no error, select 'No error'  
The famous author and actor are being honoured at a function today



- A The famous author and actor
- B at a function today
- C are being honoured
- D No error

Answer: C

**Question 88**

Select the most appropriate meaning of the given idiom.  
**Keep abreast of**

- A Keep up the good work
- B Keep oneself updated
- C Keep ahead of
- D Keep a watch on

Answer: B

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**Question 89**

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

- A. While he was doing this, he missed seeing a velvet purse full of gold coins lying on the road.
- B. Ramesh always worried about how he would become sick and weak in old age.
- C. To try how he would cope with blindness, Ramesh started walking with his eyes closed.
- D. He feared that he might even lose his sight and go blind.

- A CABD
- B BDCA
- C BCAD
- D DBAC

Answer: B

**Question 90**

Select the most appropriate **ANTONYM** of the given word.  
**Repulsive**

- A Brilliant
- B Revolting
- C Attractive
- D Hideous

Answer: C

**Question 91**

Fill in the blank with the most appropriate word

She was loved by her employees for her \_\_

- A benevolence
- B condolence
- C malevolence
- D insolence

**Answer: A**

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**Question 92**

Identify the segment in the sentence which contains the grammatical error. If there is no error, select 'No error'

He married with a rich heiress last year

- A last year
- B No error
- C He married
- D with a rich heiress

**Answer: D**

**Question 93**

Select the most appropriate synonym of the given word.

**Weary**

- A Lively
- B Restless
- C Exhausted
- D Touchy

**Answer: C**

**Question 94**

Select the option that can be used as a one word substitute for the given group of words

That which cannot be satisfied

- A Insane
- B Ingenuous
- C Insatiable
- D Inapt

**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. When a calf is born under water, the mother must get it to the surface before it drowns.
- B. The young ones remain with their parents for up to fifteen years or more.
- C. Often another whale assists the mother nudging the baby gently and encouraging it to swim.
- D. Whales have highly developed maternal instincts.

- A BCAD
- B DBCA
- C DACB
- D CBDA

Answer: C

### Question 96

Select the INCORRECTLY spelt word.

- A Guilty
- B Guardian
- C Guarranty
- D Guidance

Answer: C

### Question 97

Fill in the blank with the most appropriate word.

The minister gave an \_\_\_\_\_ that strict action would be taken against the culprits.

- A ambition
- B insurance
- C assurance
- D admission

Answer: C

## SSC CGL Important Questions PDF

### Question 98

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.

Mother was watching a movie when the lights were going off.

- A No improvement

- B going off
- C have gone off
- D went off

Answer: D

**Question 99**

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.

Scarcely had the passengers boarded the plane when the captain welcomed them.

- A No improvement
- B than the captain welcomes them
- C when the captain had welcomed them
- D that the captain welcomed them

Answer: A

**Question 100**

Select the correct indirect form of the given sentence.

The traveller said to a passerby, "Can you help me find my way, please?"

- A The traveller asked the passerby could you kindly help me find my way?
- B The traveller requested to the passerby if he can help him find his way.
- C The traveller asked the passerby that he can kindly help him find his way.
- D The traveller asked the passerby if he could kindly help him find his way.

Answer: D

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