



## SSC CGL 13 June 2019 Shift-1

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## Reasoning

### Instructions

For the following questions answer them individually

### Question 1

Select the missing number from the given options.

18      28      50

17      13      11

26      27      ?

A 61

B 30

C 29

D 36

Answer: D

### Explanation:

Model is :

x

y

$x/2 + y$

So , the missing number will be  $50/2 + 11 = 36$

So , the answer would be option d)36.

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### Question 2

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

1 : 2 :: 5 : ?

A 120

B 129

C 128

D 126

Answer: D

### Explanation:

The pattern is  $(x : x^3 + 1)$

$5 : 5^3 + 1 = 5:126$

So, the answer would be option d)126.

### Question 3

In a code language, ROUTINE is written as 181521209145. How will VEHICLE be written as in that language?

- A 215893125
- B 225893125
- C 225893115
- D 225793125

**Answer: B**

**Explanation:**

ROUTINE is written as 181521209145 because each letter is represented by its position in alphabet.

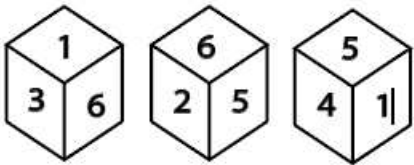
R O U T I N E - 18 15 21 20 9 14 5

Similarly VEHICLE will be coded as 225893125.

So, the answer would be option b)225893125.

**Question 4**

Three different positions of the same dice are shown. Which number will be on the face opposite to the one having 4 ?



- A 1
- B 3
- C 6
- D 2

**Answer: C**

**Explanation:**

Taking 1 as common from first and third cubes,

Since 3,6 are on one side in first cube and 5,4 are on one side in second cube, 3 will be opposite to 5 and 6 will be opposite to 4.

Taking 6 as common from first and second cubes,

Since 1,3 and 2,5 are on one side in both cubes, 1 will be opposite to 2 and 3 will be opposite to 5.

Hence, The opposite faces are 1-2, 3-5, 4-6.

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**Question 5**

Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.

- A MOQSU
- B PRIWY
- C CEGIK
- D UWYAC

**Answer: B**

**Explanation:**

In all the options except B, there is a gap of one letter between letters.

So, the answer would be option b)PRIWY.

#### Question 6

Which number will replace the question mark (?) in the following series?

116, 128, 146, 170, 200, ?

- A 232
- B 236
- C 264
- D 260

**Answer: B**

**Explanation:**

$$128 - 116 = 12$$

$$146 - 128 = 18$$

$$170 - 146 = 24$$

$$200 - 170 = 30$$

$$236 - 200 = 36$$

So, the answer would be option b)236.

#### Question 7

The current age of Savan is four times the age of Akshan. 10 years from now, Savan's age will be twice the age of Akshan. What is Savan's current age?

- A 30 years
- B 20 years
- C 10 years
- D 5 years

**Answer: B**

**Explanation:**

Let Savan ' age be s and Akshan be a.

A/c to question ,

$$s = 4a$$

10 years later ,

$$s + 10 = 2(a + 10)$$

Solving these two questions , a = 5

$$s = 20$$

So , the answer would be option b)20.

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#### Question 8

Three of the following four words are alike in a certain way and one is different. Pick the odd word out.

- A Humorous

- B Comical
- C Hilarious
- D Gagster

Answer: D

**Explanation:**

Humorous, Hilarious and comical , all three are synonyms , while gagster is an odd word.

So , the answer is option d)Gagster

**Question 9**

'Pencil' is related to 'Stationery' in the same way as 'Pilates' is related to '.....'

- A Pulses
- B Spices
- C Dry fruits
- D Exercise

Answer: D

**Explanation:**

Pencil is a stationery product. Similarly , Pilates is a form of exercise.

So , the answer would be option d)exercise.

**Question 10**

Select the correct mirror image of the given figure when the mirror is placed to the right of the figure.



A

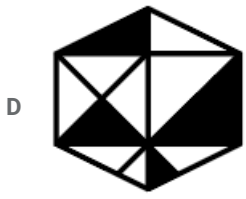


B



C

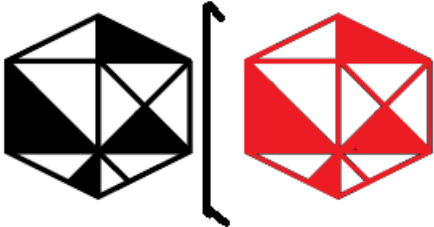




Answer: D

Explanation:

In mirror image, left most item appear on the right most edge and vice versa.

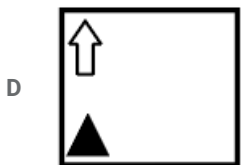
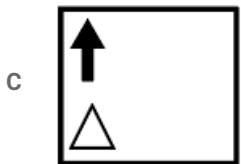
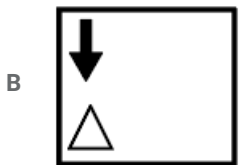
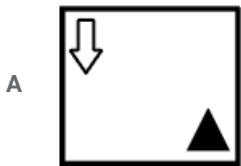
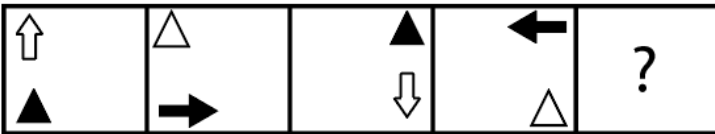


So, the answer would be option d.

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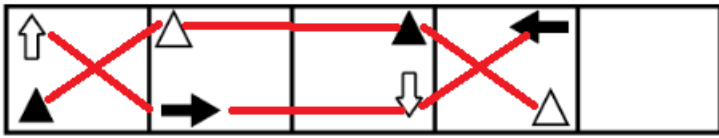
Question 11

Select the figure that will come next in the following figure series.



Answer: D

Explanation:



Colours are changing alternatively, and arrows are moving in anti-clockwise direction.

So, the answer would be option d.

**Question 12**

Select the missing number from the given options

7      11      14

8      12      9

113      265      ?

A 277

B 625

C 361

D 281

**Answer: A**

**Explanation:**

Model is

x

y

$$x^2 + y^2$$

So, the missing number will be  $14^2 + 9^2 = 277$

So, the answer would be option a) 277

**Question 13**

Two statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

**Statements:**

All fields are farm-houses.

Some fields are gardens.

**Conclusions:**

I. Some farm-houses are fields.

II. Some gardens are fields.

III. Some farm-houses are gardens.

A All the conclusions, I, II and III, follow

B Either conclusion I or III follows.

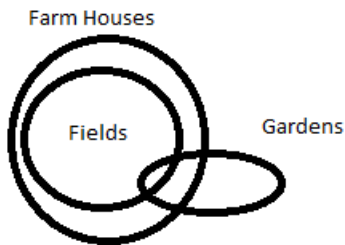
C Only conclusions I and II follow.

D Only conclusions I and III follow.

**Answer: A**

**Explanation:**

The relation between fields, farmhouses and gardens can be represented by the following venn diagram.



So, the answer would be option a) All the conclusions, I, II and III, follow.

## SSC CGL Tier-2 Previous Papers PDF

### Question 14

Arrange the following words in a logical and meaningful order.

1. Accident
2. Ambulance
3. Rash Driving
4. Injury
5. Hospital
6. Treatment

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

Answer: C

#### Explanation:

The logical order would be cause > outcome > consequences

Rash Driving > Accident > Injury > Ambulance > Treatment

So, the answer would be option c) 3, 1, 4, 2, 5, 6.

### Question 15

Select the word-pair in which the two words are related in the same way as are the two words in the following word-pair-  
Resistance : Ohm

- A Time : Clock
- B Temperature : Thermometer
- C Pressure : Barometer
- D Length : Metre

Answer: D

#### Explanation:

Ohm is the SI derived of Resistance. Similarly, Metre is the SI unit of Length.

Other options don't have the same relation.

So, the answer would be option d) Length : Metre.

### Question 16

In a code language, ASTRONOMY is written as SARTPONYM. How will FENUGREEK be written as in that language?



- A UNEFGKEER
- B EFUNHKEER
- C EFUNFERKE
- D EFUNHERKE

Answer: D

**Explanation:**

Decode the code language for ASTRONOMY.

ASTRONOMY  
 XX XX XX  
 SARTPONYM

and O will be replaced by next letter.

Following the same logic , FENUGREEK will be EFUNHERKE.

So , the answer would be option d)EFUNHERKE.

## SSC CGL Important Questions PDF

**Question 17**

'A + B' means 'A is the daughter of B'.

'A - B' means 'A is the brother of B'.

'A × B' means 'A is the mother of B'.

'A ÷ B' means 'A is the son of B'.

If  $U + C \times Q - P \div R \div S - T$ , then how is S related to U ?

- A Maternal grandfather
- B Paternal grandfather
- C Mother
- D Paternal grandmother

Answer: B

**Explanation:**

'A + B' means 'A is the daughter of B'.

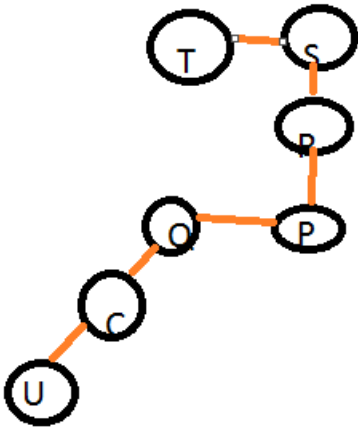
'A - B' means 'A is the brother of B'.

'A × B' means 'A is the mother of B'.

'A ÷ B' means 'A is the son of B'.

If U is the daughter of C is the daughter of Q is the brother of P is the son of R is the son of S is the brother of T, means

Draw the family picture ,



So, the answer would be option b) Paternal grandfather.

**Question 18**

Which two signs should be interchanged to make the following equation correct?

$$40 + 10 \div 2 \times 8 - 17 = 17$$

- A  $\div$  and  $-$
- B  $\times$  and  $+$
- C  $+$  and  $-$
- D  $\div$  and  $\times$

**Answer: C**

**Explanation:**

$$40 + 10 \div 2 \times 8 - 17$$

Interchanging  $+$  and  $-$ , we get,

$$40 - 10 \div 2 \times 8 + 17$$

$$= 40 - 5 \times 8 + 17$$

$$= 40 - 40 + 17$$

$$= 17$$

So, the answer would be option c)  $+$  and  $-$ .

**Question 19**

Three of the following four number-pairs are alike in a certain way and one is different. Pick the number-pair that is different from the rest.

- A 7:46
- B 9:80
- C 6:35
- D 4:15

**Answer: A**

**Explanation:**

All the options except A, follow this pattern:

$$x : x^2 - 1$$

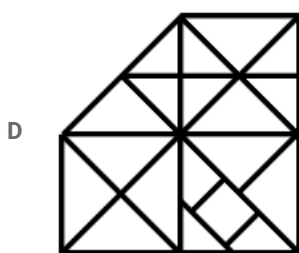
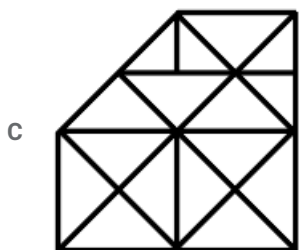
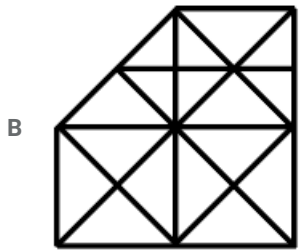
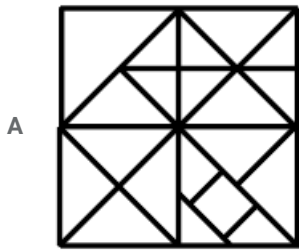
So, 7:46 ( $x : x^2 - 3$ ) follows other pattern.

So, the answer would be option a) 7:46.

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Question 20

Select the figure in which the given figure is embedded. (Rotation is not allowed).



Answer: B

Explanation:

The answer would be option b.



Question 21

Which letter will replace the question mark (?) in the following series?

R, C, T, E, V, ?, X, I

A Y

B W

C G

D F

Answer: C

Explanation:

This comprises of 2 series.

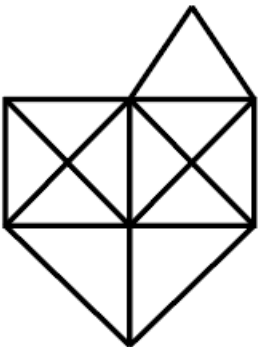
R, T, V.. (with one letter difference)

C, E, G.. (with one letter difference)

So, the answer would be option c)G

Question 22

How many triangles are there in the following figure ?



A 26

B 22

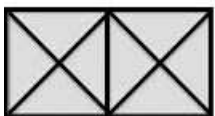
C 25

D 24

Answer: D

Explanation:

First calculate the number of triangles for this part.



$$8 + 8 + 2 = 18$$



6 more triangles are added (highlighted in red)

So, the answer would be option d)24.

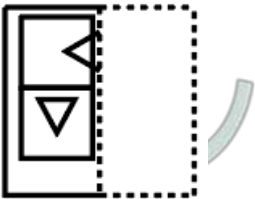
## General Science Notes for SSC CGL

### Question 23

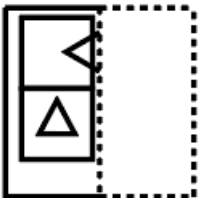
Select the option that depicts how the given transparent sheet of paper would appear if it is folded at the dotted line.



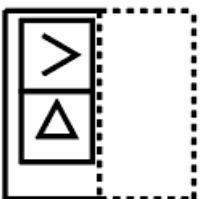
A



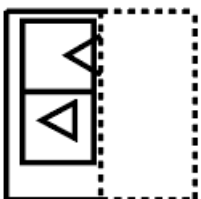
B



C

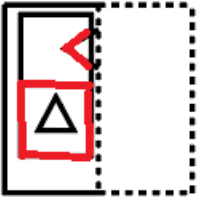


D



Answer: B

Explanation:



So , the answer would be option b.

**Question 24**

Which letter-cluster will replace the question mark (?) in the following series?  
PSV, UXA, ZCF, EHK, ?

- A JMO
- B IMP
- C JMP
- D JNP

**Answer: C**

**Explanation:**

All the three letters form series:

1st letter : P qrst U vwxy Z abcd E fghi J

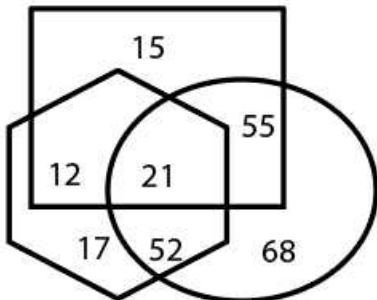
2nd letter : S tuvwx Yzab C defgh Ijkl M

3rd letter : V wxyz A bcdef G hijk Lmno P

So , the answer would be option c)JMP

**Question 25**

In the given Venn diagram, the hexagon represents 'farmers', the circle represents 'beneficiaries' and the square represents 'land-owners'. The numbers given in the diagram represent the number of persons in that particular category.



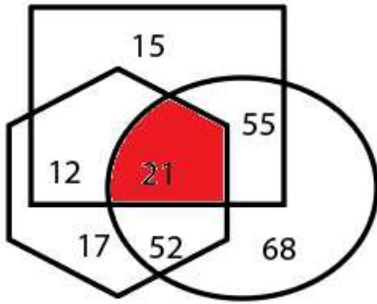
How many farmers are both land-owners and beneficiaries?

- A 21
- B 55
- C 12
- D 52

**Answer: A**

**Explanation:**

The answer would be overlapping region of hexagon, triangle and circle.



So, the answer would be option a.

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### General knowledge

#### Instructions

For the following questions answer them individually

#### Question 26

Which player has the record of scoring the most runs in the history of ICC World Cup?

- A Sachin Tendulkar
- B Brian Lara
- C Imran Khan
- D Don Bradman

Answer: A

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#### Question 27

When was the 'Battle of Tukaroi' fought?

- A 1532
- B 1565
- C 1575
- D 1546

Answer: C

#### Question 28

What is the unit of measure of a magnetic field?

- A Cobalt
- B Ohm
- C Tesla
- D Ampere

Answer: C

**Question 29**

**What is the economic impact of increase in productivity of firms?**

- A Decrease in Gross Domestic Product
- B No change in Gross Domestic Product
- C The impact may vary among nations and their economic conditions
- D Increase in Gross Domestic Product

**Answer: D**

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**Question 30**

**Who is the author of the book 'The Bird of Time: Songs of Life, Death and the Spring'?**

- A Sarojini Naidu
- B Vikram Seth
- C Rabindranath Tagore
- D Kamala Suraiyya

**Answer: A**

**Question 31**

**What is the other name for 'Orion' Constellation?**

- A Piper
- B Fighter
- C Predator
- D Hunter

**Answer: D**

**Question 32**

**The process of change from liquid to gas is called .....**

- A Precipitation
- B Vaporisation
- C Decantation
- D Condensation

**Answer: B**

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**Question 33**

The Special Olympics 2019 were held in \_\_\_\_\_.

- A Barcelona
- B Qatar
- C Abu Dhabi
- D Istanbul

**Answer: C**

**Question 34**

In which of the following states is the 'Lusei' dialect spoken?

- A Mizoram
- B Goa
- C Manipur
- D Kerala

**Answer: A**

**Question 35**

In Parliament, who takes the final decision on whether a Bill is a Money Bill or not?

- A Vice President
- B Speaker
- C Finance Minister
- D Prime Minister

**Answer: B**

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**Question 36**

'Rehuke khim' or 'cowrie shawl' are traditional textiles of \_\_\_\_\_.

- A Assam
- B Jharkhand
- C Odisha
- D Nagaland

**Answer: D**

**Question 37**

In the context of Indian parliament what is 'Zero Hour'?

- A Time immediately after Question Hour
- B Time in the last half of the parliamentary proceeding
- C Time before Question Hour
- D Time in the first half of the parliamentary proceeding

**Answer: A**

**Question 38**

**Which of the following is called the 'Grand Canyon of India'?**

- A Gangani Grand Canyon
- B Laitlum Canyon
- C Chambal River Canyon
- D Great Canyon of Gandikota

**Answer: D**

## SSC CHSL Previous Question papers (download pdf)

**Question 39**

**When was the 'Battle of Kanauj' fought?**

- A 1540
- B 1524
- C 1556
- D 1536

**Answer: A**

**Question 40**

**Which documentary based on Indian society won an Academy Award in 2019?**

- A End Game
- B Lifeboat
- C Period. End of Sentence
- D Black Sheep

**Answer: C**

**Question 41**

**What would happen to the demand curve when there is an increase in the price of substitute products?**

- A Outward shift
- B Remains constant

C Initially inward and then after a period outward shift

D Inward shift

Answer: A

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### Question 42

The easternmost point of India is \_\_\_\_.

A Kibithu

B Wokha

C Mokokchung

D Doulchara

Answer: A

### Question 43

Identify the element that is most prolific in the crust of the earth.

A Iron

B Silicon

C Oxygen

D Hydrogen

Answer: C

### Question 44

The Sahyadri Mountains run from \_\_\_\_ to Kanyakumari, the southernmost part of India.

A Uttar Pradesh

B Madhya Pradesh

C Gujarat

D Rajasthan

Answer: C

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### Question 45

The Aligarh Movement was started by \_\_\_\_.

A Dr Maghfoor Ahmad Ajazi

B Muhammad Ali Jinnah

C Maulana Manzoor Ahsan

D Syed Ahmed Khan

**Answer: D**

**Question 46**

The phrase 'Bend your back' is used in which sport?

A Hockey

B Football

C Volleyball

D Cricket

**Answer: D**

**Question 47**

Which of the following Indians was one of the founders of Dartington Hall School in Japan?

A Subhash Chandra Bose

B Dadabhai Naoroji

C Swami Vivekananda

D Rabindranath Tagore

**Answer: D**

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**Question 48**

Where is the National War Memorial of India located?

A Andaman

B Rajkot

C New Delhi

D Kochi

**Answer: C**

**Question 49**

Surendranath Banerjee and Ananda Mohan Bose founded \_\_\_\_\_ in Bengal in 1876.

A Bengal Association

B Indian Association

C Tathagat Association

D Oriental Association

**Answer: B**

**Question 50**

Which one of the following is the largest recognised constellation?

- A Hydra
- B Dorado
- C Antila
- D Crux

**Answer:** A

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**Quant**

**Instructions**

For the following questions answer them individually

**Question 51**

An article is sold for ₹ 288 after successive discounts of 20% and 25%. What is the marked price of the article?

- A ₹ 520
- B ₹ 480
- C ₹ 460
- D ₹ 500

**Answer:** B

**Explanation:**

Let the marked price be  $m$ .

A/c to question ,

$$288 = \frac{80}{100} \times \frac{75}{100} \times m$$

$$m = 480$$

So , the answer would be option b)480.

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**Question 52**

If  $(a - b) = 4$  and  $ab = 2$ , then  $(a^3 - b^3)$  is equal to:

- A 92
- B 88
- C 84
- D 80

**Answer:** B

**Explanation:**

$$(a - b)^2 = a^2 + b^2 - 2ab$$

$$a^2 + b^2 = 16 + 4 = 20$$

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

$$= 4(20 + 2) = 88$$

So, the answer would be option b)88.

#### Question 53

In a circle of radius 17 cm, a chord is at a distance of 15 cm from the centre of the circle. What is the length of the chord?

A 15 cm

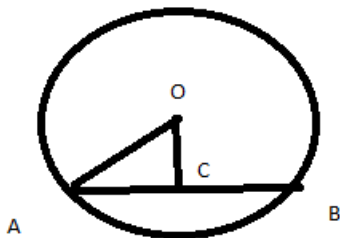
B 12 cm

C 8 cm

D 16 cm

Answer: D

Explanation:



$$OA = 17 \text{ cm } OC = 15 \text{ cm}$$

AC can be determined using Pythagoras theorem,

$$AC = \sqrt{17^2 - 15^2} = 8$$

$$AB = 16 \text{ cm}$$

So, the answer would be option d)16 cm

#### Question 54

If  $a : b = 5 : 7$ , then  $(5a - 3b) : (4a - 2b)$  is equal to:

A 2 : 3

B 5 : 4

C 4 : 3

D 3 : 2

Answer: A

Explanation:

Given,

$$a : b = 5 : 7$$

$$(5a - 3b) : (4a - 2b)$$

Divide numerator and denominator by b, we get

$$\frac{5\frac{a}{b} - 3}{4\frac{a}{b} - 2}$$

$$= \frac{7-3}{7-2}$$

$$= \frac{4}{5}$$

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

So, the answer would be option a) 2:3.

## SSC CGL Previous Papers (DOWNLOAD PDF)

### Question 55

The value of

$\sin^2 42^\circ + \sin^2 48^\circ + \tan^2 60^\circ - \operatorname{cosec} 30^\circ$  is equal to:

A 5

B 3

C 4

D 2

Answer: D

Explanation:

$$\begin{aligned} & \sin^2 42^\circ + \sin^2 48^\circ + \tan^2 60^\circ - \operatorname{cosec} 30^\circ \\ &= \sin^2 42^\circ + \cos^2 42^\circ + \tan^2 60^\circ - \operatorname{cosec} 30^\circ \\ &= 1 + 3 - 2 = 2 \end{aligned}$$

{Using  $\sin^2 \theta + \cos^2 \theta = 1$ ,  $\tan 60^\circ = \sqrt{3}$ ,  $\operatorname{cosec} 30^\circ = 2$ }

So, the answer would be option d)2.

### Question 56

$21.6 \div 3.6 \times 2 + 0.25 \times 16 \div 4 - 6$  is equal to:

A 6

B 5

C 8

D 7

Answer: D

Explanation:

$$\begin{aligned} & 21.6 \div 3.6 \times 2 + 0.25 \times 16 \div 4 - 6 \\ &= 6 \times 2 + 0.25 \times 4 - 6 \\ &= 12 + 1 - 6 = 7 \end{aligned}$$

So, the answer would be option d)7.

### Question 57

If  $\sin 3\theta = \cos(20^\circ - \theta)$ , then  $\theta$  is equal to:

A 25

- B 35
- C 28
- D 30

**Answer: B**

**Explanation:**

$$\sin 3\theta = \cos(20^\circ - \theta)$$

$$= \cos(90 - (\theta + 70))$$

$$= \sin(\theta + 70)$$

$$3\theta = \theta + 70$$

$$\theta = 35^\circ$$

So, the answer would be option b)35.

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**Question 58**

The efficiencies of A, B, and C are in the ratio 2 : 5 : 3. Working together, they can complete a task in 12 days. In how many days can A alone complete 30% of that task?

- A 15
- B 16
- C 20
- D 18

**Answer: D**

**Explanation:**

$$\text{One day work} = 2d + 5d + 3d = 10d$$

So, 12 days of work = 120 days.

$$30\% \text{ of work} = 36d$$

A can complete it in  $36d/2d = 18$  days.

So, the answer would be option d)18 days.

**Question 59**

The price of petrol is increased by 28%. A person wants to increase his expenditure by 22% only. By approximately what percent should he decrease his consumption?

- A 5.3%
- B 4.7%
- C 4.9%
- D 5.1%

**Answer: B**

**Explanation:**

$$\text{Expenditure} = \text{Price} \times \text{Consumption}$$



Initially, let  $e$  be the expenditure,  $p$  be price and  $c$  be the consumption.

$$e = p \times c$$

Now,  $p$  is increased by 28% and expenditure can only be increased by 22%. Let  $c'$  be the new consumption.

$$1.22e = 1.28p \times c'$$

$$c' = 95.31\%$$

So, consumption should be decreased by 4.68%.

So, the answer would be option b) 4.7%.

#### Question 60

In a class of 50 students, 60% are boys. The average of marks of the boys is 62, and that of the girls is 68. What is the average marks of the whole class?

A 64.8

B 64.4

C 65.2

D 64.6

Answer: B

Explanation:

$$\text{Number of boys} = \frac{60}{100} \times 50 = 30$$

$$\text{Number of girls} = 50 - 30 = 20$$

$$\text{Total marks of class} = 30 \times 62 + 20 \times 68 = 1860 + 1360 = 3220$$

$$\text{Average marks of the class} = \frac{3220}{50} = 64.4$$

So, the answer would be option b) 64.4

## SSC CGL Tier-2 Previous Papers PDF

#### Question 61

The Table shows the number of students from different schools playing different games.

Games	Schools			
	A	B	C	D
Cricket	125	250	150	175
Football	175	200	250	125
Hockey	75	125	200	150

What is the average of the number of students who play cricket in all four schools?

A 180

B 175

C 190

D 185

Answer: B

Explanation:

The average of the number of students who play cricket in all four schools

$$\begin{aligned}
 &= \frac{125+250+150+175}{4} \\
 &= \frac{700}{4} \\
 &= 175
 \end{aligned}$$

So, the answer would be option b)175.

**Question 62**

$\triangle ABC \sim \triangle EDF$  and  $ar(\triangle ABC): ar(\triangle DEF) = 1 : 4$ . If  $AB = 7\text{cm}$ ,  $BC = 8\text{ cm}$  and  $CA = 9\text{ cm}$ , then  $DF$  is equal to:

- A 8 cm
- B 16 cm
- C 18 cm
- D 14 cm

**Answer: B**

**Explanation:**

Theorem: If two **triangles** are **similar**, then the ratio of the **area** of both **triangles** is proportional to the square of the ratio of their corresponding sides. This proves that the ratio of **areas** of two **similar triangles** is proportional to the squares of the corresponding sides of both the **triangles**.

Since  $\triangle ABC \sim \triangle EDF$ ,

$$\frac{\text{area of triangle } ABC}{\text{area of triangle } EDF} = \frac{BC^2}{DF^2}$$

$$\frac{1}{2} = \frac{8}{DF}$$

$$DF = 16\text{ cm}$$

So, the answer would be option b)16 cm.

**Question 63**

Six cubes, each of edge 2 cm, are joined end to end. What is the total surface area of the resulting cuboid in  $\text{cm}^2$ ?

- A 96
- B 144
- C 104
- D 128

**Answer: C**

**Explanation:**

Six cubes, each of edge 2 cm, are joined end to end, resulting cuboid would have the following dimensions.

$$l = 12\text{ cm } b = 2\text{cm } h = 2\text{cm}$$

$$\text{Total surface area} = 2(lb + bh + hl) = 2(24 + 4 + 24) = 104$$

So, the answer would be option c)104.

**SSC CGL Important Questions PDF**

**Question 64**

The difference between the compound interest and simple interest on ₹ x at 11% per annum for 2 years is ₹ 60.50. What is the value of x?

- A 4800

- B 4000
- C 5000
- D 4500

**Answer:** C

**Explanation:**

Formula for the difference between the compound interest and simple interest for two years

$$= \frac{Pr^2}{100^2}$$

Let the principal be x.

$$\Rightarrow 60.5 = \frac{x \times 11^2}{100^2}$$

$$\Rightarrow x = 5000$$

So, the answer would be option c)5000.

**Question 65**

Two articles are sold for ₹ 4,752 each. On one, the seller gains 32% and on the other he loses 28%. What is his overall gain or loss percentage, correct to one decimal place?

- A 7.3% gain
- B 7.3% loss
- C 6.8% loss
- D 6.8% gain

**Answer:** C

**Explanation:**

$$\text{Total selling price} = 4752 \times 2 = \text{Rs.}9504$$

For article 1, he gains 32%. Let its cost price be x.

$$4752 = \frac{132x}{100} \Rightarrow x = 3600$$

For article 2, he loses 28%. Let its cost price be y.

$$4752 = \frac{72y}{100} \Rightarrow y = 6600$$

$$\text{Total Cost Price} = \text{Rs.}10200$$

$$\text{Loss} = 10200 - 9504 = \text{Rs.}696$$

$$\text{Loss \%} = \frac{696 \times 100}{10200} = 6.8\%$$

So, the answer would be option c)6.8% loss.

**Question 66**

If  $3 \sin \theta = 2 \cos \theta$ , then  $\frac{4 \sin \theta - \cos \theta}{4 \cos \theta + \sin \theta}$  is equal to:

- A  $\frac{5}{7}$
- B  $\frac{5}{8}$
- C  $\frac{5}{14}$
- D  $\frac{5}{11}$

**Answer:** C

**Explanation:**

$$3 \sin \theta = 2 \cos \theta$$

$$\frac{\sin \theta}{\cos \theta} = \frac{2}{3}$$

$$\frac{4 \sin \theta - \cos \theta}{4 \cos \theta + \sin \theta}$$

Divide both numerator and denominator by  $\cos \theta$ ,

$$\frac{4 \tan \theta - 1}{4 + \tan \theta}$$

$$= \frac{5}{14}$$

So, the answer would be option c)  $\frac{5}{14}$ .

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### Question 67

If  $\sqrt{x} - \frac{1}{\sqrt{x}} = \sqrt{5}$ , then  $x^2 + \frac{1}{x^2}$  is equal to:

- A 45
- B 49
- C 47
- D 51

Answer: C

### Explanation:

$$\sqrt{x} - \frac{1}{\sqrt{x}} = \sqrt{5}$$

Squaring both the sides, we get,

$$x + \frac{1}{x} - 2 = 5$$

$$x + \frac{1}{x} = 7$$

Squaring again,

$$x^2 + \frac{1}{x^2} + 2 = 49$$

$$x^2 + \frac{1}{x^2} = 47$$

So, the answer would be option c) 47.

### Question 68

The Table shows the number of students from different schools playing different games.

Games	Schools			
	A	B	C	D
Cricket	125	250	150	175
Football	175	200	250	125
Hockey	75	125	200	150

What is the ratio of the total students who play cricket in schools A and B together to the total students who play hockey in schools C and D?

- A 15 : 14
- B 15 : 11
- C 16 : 11
- D 16 : 13

Answer: A

**Explanation:**

Required ratio =  $\frac{\text{total students who play cricket in schools A and B together}}{\text{total students who play hockey in schools C and D}}$

$$= \frac{125 + 250}{200 + 150}$$

$$= \frac{375}{350}$$

$$= \frac{15}{14}$$

So, the answer would be option a) 15:14.

**Question 69**

In  $\triangle ABC$ , P is a point on BC such that  $BP : PC = 4 : 5$  and Q is the mid point of BP. Then  $\text{ar}(\triangle ABQ) : \text{ar}(\triangle ABC)$  is equal to:

A 1 : 3

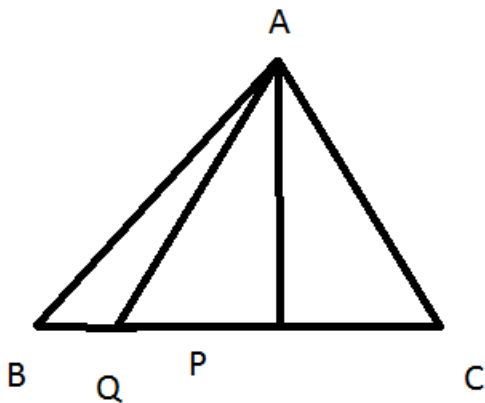
B 1 : 9

C 2 : 9

D 2 : 5

**Answer: C**

**Explanation:**



From figure, we can observe that height of  $\triangle ABC$  and  $\triangle ABQ$  are equal.

$$\text{Area of } \triangle ABQ = \frac{1}{2} \times 2x \times h$$

$$\text{Area of } \triangle ABC = \frac{1}{2} \times 9x \times h$$

$$\frac{\text{area of } \triangle ABQ}{\text{area of } \triangle ABC} = 2:9$$

So, the answer would be option c) 2:9

## General Science Notes for SSC CGL

**Question 70**

In a circle with centre O, an arc ABC subtends an angle of  $136^\circ$  at the centre of the circle. The chord AB is produced to a point P. Then  $\angle CBP$  is equal to:

A  $72^\circ$

B  $44^\circ$

C  $68^\circ$

D  $66^\circ$

**Answer: C**

**Explanation:**

Take any point D on the circumference and join AD and DC .

$$\therefore \angle AOC = 2 \times \angle ADC$$

$$\Rightarrow \angle ADC = 1/2 \times \angle AOC = 1/2 \times 136 = 68^\circ$$

Now,  $\angle PBC = \angle ADC$  [exterior angle of cyclic quadrilateral]

$$\Rightarrow \angle PBC = 68^\circ$$

SO , the answer would be option c)  $68^\circ$ .

**Question 71**

If  $a + b + c = 8$  and  $ab + bc + ca = 20$ , then  $a^3 + b^3 + c^3 - 3abc$  is equal to:

- A 30
- B 24
- C 32
- D 36

**Answer: C**

**Explanation:**

$$(a + b + c)^2 = a^2 + b^2 + c^2 + 2ab + 2bc + 2ca$$

$$64 = a^2 + b^2 + c^2 + 40$$

$$a^2 + b^2 + c^2 = 24$$

$$a^3 + b^3 + c^3 - 3abc = (a + b + c)(a^2 + b^2 + c^2 - (ab + bc + ca)) = 8(24 - 20) = 32$$

So, the answer would be option c) 32.

**Question 72**

The Table shows the number of students from different schools playing different games.

Games	Schools			
	A	B	C	D
Cricket	125	250	150	175
Football	175	200	250	125
Hockey	75	125	200	150

The number of students who play football in school A is approximately what percent of the football playing students from all schools?

- A 20.4
- B 21.7
- C 29.9
- D 19.1
- E 23.3

**Answer: E**

**Explanation:**

Required answer

$$= \frac{175}{175 + 200 + 250 + 125} \times 100$$

$$= \frac{175}{750} \times 100$$

$$= 23.33\%$$

So, the answer would be option e) 23.3

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### Question 73

Walking  $\frac{5}{7}$  of his usual speed, a person reaches his office 10 minutes later than the usual time. His usual time in minutes is:

A 28

B 30

C 25

D 35

Answer: C

#### Explanation:

If the person is walking at  $\frac{5}{7}$  of his speed, he is taking  $\frac{7}{5}$  of his usual time.

Let the usual time be  $x$ . Extra time is  $\frac{2}{5}$  of  $x$ .

$$\frac{2}{5}x = 10$$

$$x = 25$$

So, the answer would be option c) 25 minutes.

### Question 74

What is the value of  $x$  so that the seven digit number  $55350x2$  is divisible by 72?

A 1

B 8

C 7

D 3

Answer: C

#### Explanation:

Break 72 into prime factors

$$72 = 2^3 \times 3^2$$

Rule for 2 : last digit should be even.

Rule for 3 : Sum should be divisible by 3.

For  $55350x2$  to be divisible by 72,  $x = 7$ .

So, the answer should be option c) 7.

Question 75

The Table shows the number of students from different schools playing different games.

Games	Schools			
	A	B	C	D
Cricket	125	250	150	175
Football	175	200	250	125
Hockey	75	125	200	150

If the data about the number of students who play hockey from different schools is represented by a pie-chart, what is the central angle of the sector representing students who play hockey from school C to the nearest whole number?

- A  $80^\circ$
- B  $107^\circ$
- C  $102^\circ$
- D  $95^\circ$
- E  $131^\circ$

Answer: E

**Explanation:**

Total number of students playing hockey = 550

If 550 corresponds to  $360^\circ$ ,

200 will be represented by  $\frac{360 \times 200}{550} = 130.9^\circ$

So, the answer would be option e)  $131^\circ$ .

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### English

**Instructions**

For the following questions answer them individually

**Question 76**

Select the correct active form of the given sentence.

He was given a book for his birthday.

- A She has gave him a book for his birthday.
- B She give a book to him for his birthday.
- C She gave him a book for his birthday.
- D She will be giving him a book for his birthday.

Answer: C

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**Question 77**

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

The cost of fruits and vegetables have risen abnormally this month.



- A abnormally
- B The cost of
- C have risen
- D this month.

Answer: C

**Question 78**

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

Meera has a friend who parents live in Dubai.

- A has a friend which parents live
- B have a friend whom parents live
- C has a friend whose parents live
- D No improvement.

Answer: C

**Question 79**

Select the word which means the same as the group of words given.

Too unimportant to consider

- A trivial
- B noticeable
- C nothing
- D diminutive

Answer: A

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**Question 80**

Given below are four jumbled sentences. Select the option that gives their correct order.

- A. Its value is linked to what it is being used for.
- B. Such questions often baffle you.
- C. How emotional should one get about money and its value?
- D. Money on its own has no value, until you have some use for it.

- A CABD
- B DBAC
- C CBDA
- D ACDB

Answer: C

**Question 81**

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

Applications are to be sent to the Principal before 30th May.

- A will be send to
- B are sending to
- C No improvement
- D were being send to

**Answer: C**

**Question 82**

Select the most appropriate option to fill in the blank.

It is hard to conceive of a more \_\_\_\_\_ route than the one that this determined traveller chose to follow.

- A stimulating
- B dashing
- C daunting
- D provoking

**Answer: C**

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**Question 83**

Select the correct passive form of the given sentence.

The artist played the violin.

- A The violin had been played by the artist.
- B The violin will be played by the artist.
- C The violin is being played by the artist.
- D The violin was played by the artist.

**Answer: D**

**Question 84**

Select the word which means the same as the group of words given.

That which can be drawn into a thin wire

- A ductile
- B smooth
- C flexible
- D brittle

**Answer: A**

**Question 85**

Given below are four jumbled sentences. Select the option that gives their correct order.

- A. Only natural dyes are used in Kalamkari and it involves several steps.
- B. There are two distinctive styles of Kalamkari in India.
- C. They are the Sri Kalahasti style and the Machlipatnam style.
- D. Kalamkari is a type of hand-painted or block-printed cotton textile, produced in the Indian States of Andhra Pradesh and Telangana.

- A CBDA
- B DABC
- C ACDB
- D DCBA

**Answer: B**

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**Question 86**

Select the most appropriate synonym of the given word.

**OBSTACLE**

- A benefit
- B clearance
- C accessory
- D barrier

**Answer: D**

**Instructions**

Select the correctly spelt word.

**Question 87**

- A fortyeth
- B fortieth
- C fortyth
- D fourthieth

**Answer: B**

**Question 88**

- A taelant
- B centiment
- C serenity
- D cleaver

Answer: C

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### Instructions

For the following questions answer them individually

### Question 89

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

Cows are amongst the gentlest of animals; none shows more passionate tenderness towards their young.

- A none shows more
- B towards their young
- C the gentlest of animals
- D Cows are amongst

Answer: A

### Question 90

Select the most appropriate option to fill in the blank.

Charlie Chaplin's rise to fame paralleled the \_\_\_\_\_ growth of Hollywood movies in the first decades of the century.

- A sluggish
- B explosive
- C progressing
- D delayed

Answer: B

### Question 91

Select the most appropriate synonym of the given word .

ENDEAVOUR

- A success
- B result
- C achievement
- D attempt

Answer: D

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### Instructions

Select the most appropriate meaning of the underlined idiom in the given sentence.

### Question 92

The idea of making a children's park has been nipped in the bud by the local council.

- A encouraged strongly
- B changed completely
- C dropped at an early stage
- D included somewhere else

**Answer: C**

**Question 93**

We now have an ex-Minister in the running from our constituency for the post of Member of Parliament.

- A contesting the seat
- B teaching yoga
- C giving speeches
- D jogging everyday

**Answer: A**

**Instructions**

Select the most appropriate antonym of the given word.

**Question 94**

**WEAKNESS**

- A illness
- B strength
- C bravery
- D disability

**Answer: B**

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**Question 95**

**TYRANT**

- A patron
- B benefactor
- C champion
- D rival

**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:**

M. Ananda Kumar, scientist, Nature Conservation Foundation says that elephants are "engineers of the eco-system. He explains : they are seed (1)\_\_\_\_ . Forests without (2)\_\_\_\_ have been observed to not have young (3)\_\_\_\_ at all. This is because (4)\_\_\_\_ species disperse seeds only through elephants." The animals are phenomenal at (5)\_\_\_\_ themselves to new ecological conditions and negotiating a problem.

**Question 96**

Select the most appropriate option to fill in blank No.(1)

- A collectors
- B makers
- C eaters
- D dispersers

**Answer: D**

**Question 97**

Select the most appropriate option to fill in blank No.(2)

- A engineers
- B elephants
- C conservation
- D seeds

**Answer: B**

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**Question 98**

Select the most appropriate option to fill in blank No.(3)

- A saplings
- B species
- C seeds
- D elephants

**Answer: A**

**Question 99**

Select the most appropriate option to fill in blank No.(4)

- A all
- B certain
- C no
- D every

**Answer: B**

Question 100

Select the most appropriate option to fill in blank No.(5)

- A explaining
- B adapting
- C expanding
- D structuring

Answer: B

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