



## SSC CHSL 11 July 2019 Shift-3

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## Reasoning

### Instructions

For the following questions answer them individually

### Question 1

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

- A 8715
- B 6915
- C 8915
- D 7815

Answer: C

### Explanation:

In all the option except C, the addition of all the numbers are same. The summation of all the numbers are 21. But in option C the summation is 23.

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### Question 2

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

- A Potato
- B Egg
- C Onion
- D Tomato

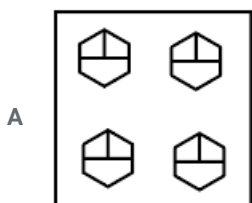
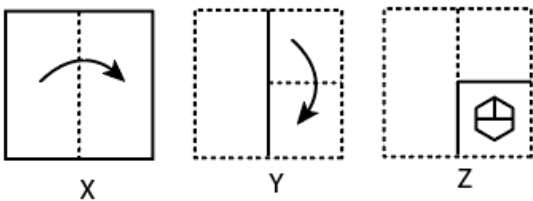
Answer: B

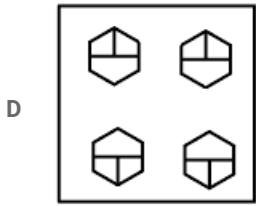
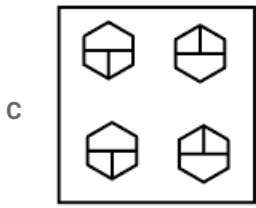
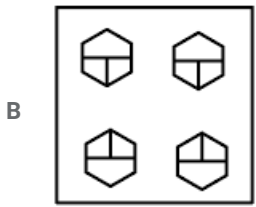
### Explanation:

All except option B are veg items. Only option B is the non veg item.

### Question 3

A paper is folded and cut as shown in the following figures (X, Y and Z). Select the option that depicts how this paper will appear when unfolded.





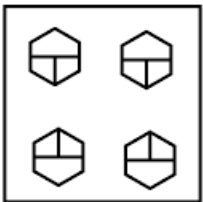
**Answer: B**

**Explanation:**

When the paper is unfolded first to the top, the vertical line in the hexagon appears towards the middle of the paper.

When the paper is unfolded again to the left, two hexagons will appear similarly with the vertical line in both the hexagons towards the middle of the paper.

∴ When the paper is unfolded it appears as shown below



Hence, the correct answer is Option B

**Question 4**

Select the number-pair in which the two numbers are related in the same way as are the two numbers of the following number-pair.

20 : 30

A 12 : 23

B 16 : 36

C 30 : 42

D 6 : 14

**Answer: C**

**Explanation:**

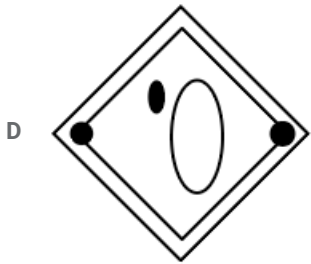
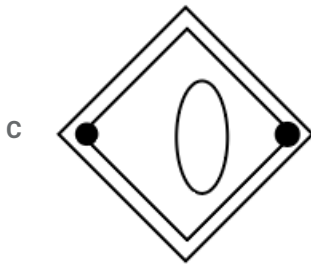
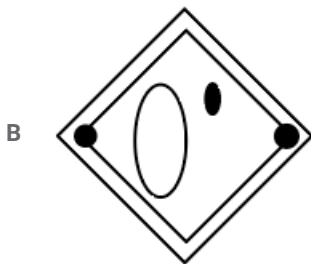
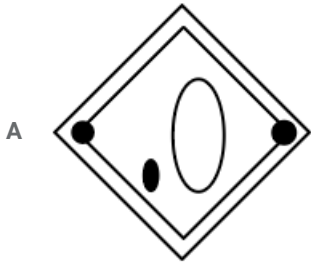
$20 = 4 \times 5$  and  $30$  is  $5 \times 6$

Similarly  $42 = 6 \times 7$

Therefore,  $20:30$  is similar to  $30:42$

Question 5

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



Answer: A

Explanation:

If we place the mirror at the right side of the image then according to the mirror image law the nearest one to the mirror will remain the nearest one after the formation of the mirror image. So option A will be the correct answer.

Question 6

Select the option that is related to the third letter-pair in the same way as the second letter pair is related to the first letter-pair.

GP : TK :: DR ?

A WX

B IW

C VU

D WI

**Answer: D**

**Explanation:**

GP and TK are related such that G is the reverse letter of T and P is the reverse letter of K.

Similarly, reverse letter of D is W and R is I.

So, option D is the correct one.

**Question 7**

If WIND is coded as 414923 and CARDS is coded as 1941813, then how will ORIENT be coded as?

A 2013591815

B 2014591815

C 2014581815

D 1518951420

**Answer: B**

**Explanation:**

The place values of the letters of WIND is-

W=23, I=9, N=14, D=4

Now the numbers are arranged in reverse order so the code is 414923

Now, ORIENT will be-

O=15, R=18, I=9, E=5, N=14, T=20

So the code will be- 2014591815.

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**Question 8**

Arrange the following words as they appear in the English Dictionary.

1. Chairman
2. Challan
3. Chaos
4. Champion
5. Changing

A 1, 4, 2, 3, 5

B 1, 2, 4, 5, 3

C 1, 2, 3, 4, 5

D 1, 3, 4, 2, 5

**Answer: B**

**Explanation:**

If we arrange the letters according to the dictionary then-

1. Chairman
2. Challan
3. Champion
4. Changing
5. Chaos

**Question 9**

'Dice' is related to 'Cube' in the same way as 'Ball' is related to '\_\_\_\_\_':

- A Cone
- B Cube
- C Line
- D Sphere

**Answer: D**

**Explanation:**

The shape of a dice is cubical similarly the shape of a ball is spherical.

**Question 10**

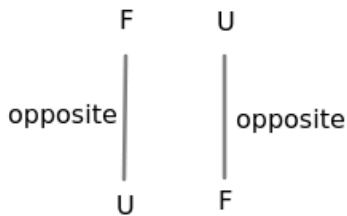
Select the option that is related to the third letter-pair in the same way as the second letter pair is related to the first letter-pair.  
FU : UF :: RS : ?

- A JH
- B GH
- C IP
- D IH

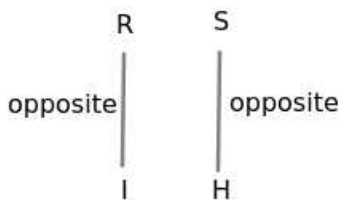
**Answer: D**

**Explanation:**

The logic is shown in the below figure,



Similarly,



∴ RS is related to IH in the same way FU is related to UF

Hence, the correct answer is Option D

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**Question 11**

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

$$10 + 18 - 20 \times 100 \div 5 = 27$$

A  $\times$  and  $-$

B  $+$  and  $-$

C  $\times$  and  $\div$

D  $+$  and  $\div$

**Answer: C**

**Explanation:**

If we interchange  $\times$  and  $\div$  then-

$$10 + 18 - 20 \div 100 \times 5$$

$$= 10 + 18 - 1$$

$$= 27$$

**Question 12**

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

2, 3, 8, 31, ?

A 95

B 134

C 154

D 105

**Answer: C**

**Explanation:**

Here the logic of the series is -

$$2 \times 2 - 1 = 3$$

$$3 \times 3 - 1 = 8$$

$$8 \times 4 - 1 = 31$$

So, the next one will be

$$31 \times 5 - 1 = 154$$

**Instructions**

Select the set in which the numbers are related in the same way as are the numbers of the following set.

**Question 13**

(10, 32, 54)

A (16, 37, 56)

B (25, 47, 77)

C (15, 49, 37)

D (35, 57, 79)

**Answer:** D

**Explanation:**

Here,

$$(54 + 10) \div 2$$

$$= 64 \div 2$$

$$= 32$$

Similarly,

$$(35 + 79) \div 2$$

$$= 114 \div 2$$

$$= 57$$

Hence, the correct answer is Option D

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**Question 14**

(35, 48, 83)

A (15, 25, 41)

B (25, 49, 91)

C (24, 49, 75)

D (15, 24, 39)

**Answer:** D

**Explanation:**

$$35 + 48 = 83$$

Similarly,

$$15 + 24 = 39$$

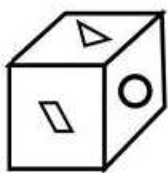
Hence, the correct answer is Option D

**Instructions**

For the following questions answer them individually

**Question 15**

Two different positions of the same dice are shown. Select the pattern that will be on the face opposite to the one having





C



D



Answer: D

Explanation:

Let



figure-1



figure-2



figure-3



figure-4



figure-5

From the first position of the dice, figure-1 is not opposite to figure-3 and figure-4

From the second position of the dice, figure-1 is not opposite to figure-2 and figure-5

⇒ figure-1 is opposite to remaining figure of the dice

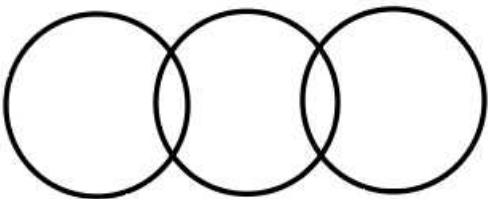
By placing the remaining figure opposite to figure-1 and rotating the dice from first position to second position, the figure opposite to figure-5 is figure-4

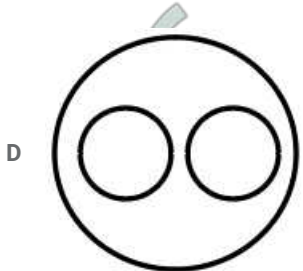
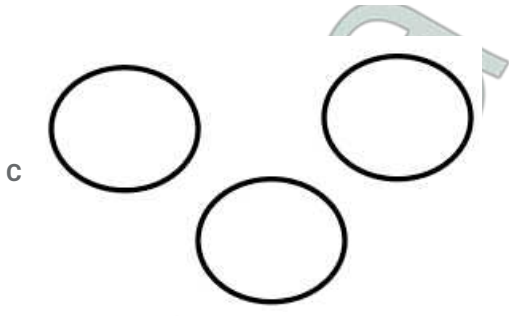
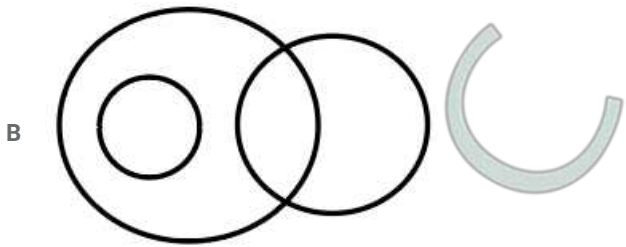
Hence, the correct answer is Option D

### Question 16

Select the Venn diagram that best illustrates the relationship between the following classes.  
Lawyers, Architects, Human Beings

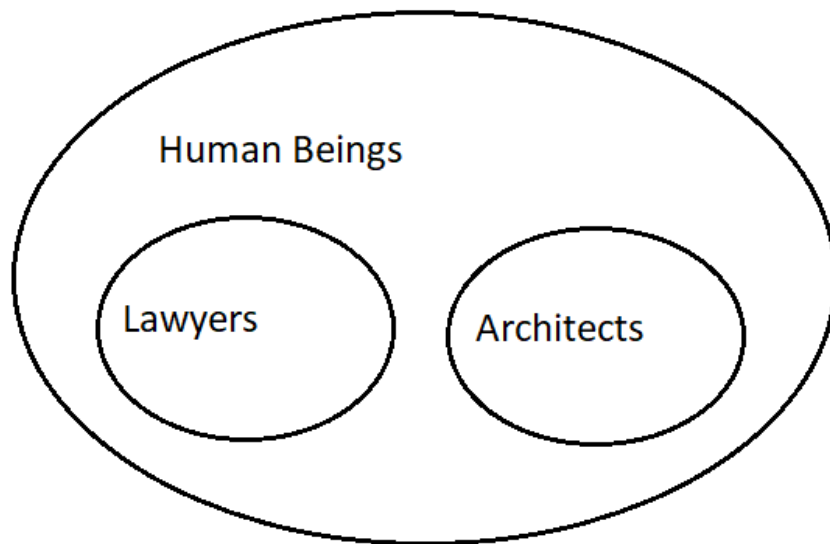
A





Answer: D

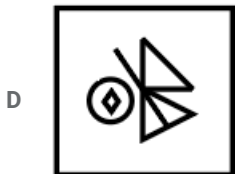
Explanation:



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Question 17

Select the Answer Fig. that will come next in the following Problem Fig. series.



Answer: A

Explanation:

The given figure is moving in 45 degree anticlockwise direction so the answer figure will be option A.

Question 18

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

A NRV

B DHL

C FKM

D PTX

Answer: C

Explanation:

Number of letters between consecutive letters of all letter-clusters are 3 except in FKM.

The number of letters between F and K is 4.

∴ FKM is the odd one among the given letter-clusters

Hence, the correct answer is Option C

**Question 19**

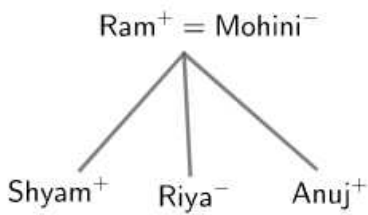
**Shyam is the brother of Riya. Mohini is the mother of Anuj. Riya is the daughter of Ram. Anuj is the brother of Shyam. How is Mohini related to Ram?**

- A Sister
- B Daughter
- C Wife
- D Mother

**Answer: C**

**Explanation:**

According to the problem, the family tree is



∴ Mohini is the wife of Ram

Hence, the correct answer is Option C

## SSC CHSL Study Material

**Question 20**

**If it was a Saturday on 10 November 2018, what was the day of the week on 15 August 2017?**

- A Monday
- B Tuesday
- C Sunday
- D Friday

**Answer: B**

**Explanation:**

Given, 10 November 2018 was Saturday

Number of days between 15 August 2017 and 15 August 2018 = 365 days

Number of days between 15 August 2018 and 10 November 2018 = 16 + 30 + 31 + 10 = 87 days

Number of days between 15 August 2017 and 10 November 2018 = 452 days

Number of odd days between 29 January 2003 and 26 February 2005 = Remainder of  $\frac{452}{7} = 4$

∴ The day on 15 August 2017 = Saturday - 4 = Tuesday

Hence, the correct answer is Option B

**Question 21**

Three 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 knives are axes.

All axes are swords .

All saws are swords.

**Conclusions:**

I. All swords are knives.

II. Some swords are axes.

III. Some swords are saws.

A Only conclusions II and III follow.

B All the conclusions follow.

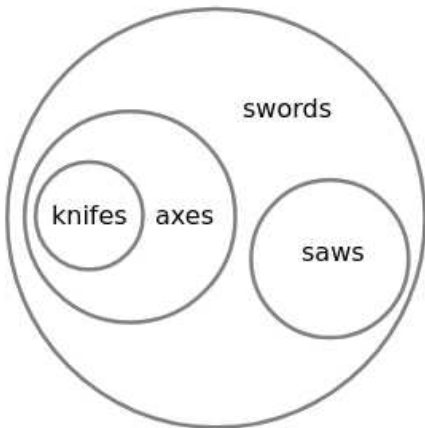
C Only conclusions I and II follow.

D Only conclusion I follows.

**Answer: A**

**Explanation:**

The basic diagram for the given statements is



I. All swords are knives

From the basic diagram, some swords are are knives. Hence Conclusion I do not follow.

II. Some swords are axes

From the basic diagram, some swords are axes. Hence Conclusion II follows.

III. Some swords are saws

From the basic diagram, some swords are saws. Hence Conclusion III follows.

∴ Only Conclusion II and III follows the given statements

Hence, the correct answer is Option A

**Question 22**

In a code language, THRUST is written as UJUYYZ. How will WOOD be written as in that language?

A XQSH

B XQRH

C XQRI

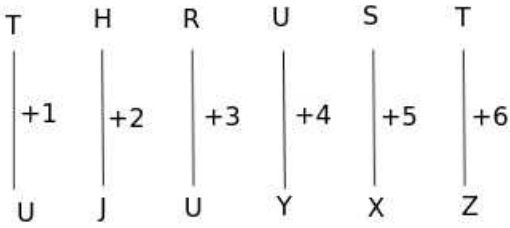
D XORH

Answer: B

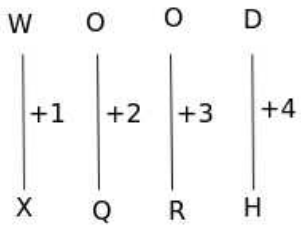
Explanation:

Given,

THRUST is written as UJUYXZ in the code language



Similarly,



∴ WOOD is coded as XQRH in the code language

Hence, the correct answer is Option B

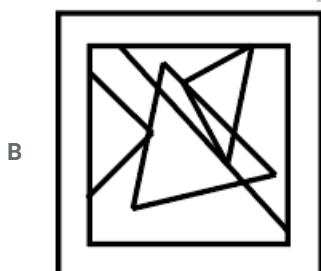
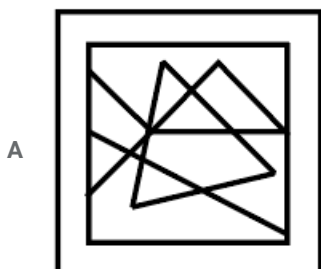
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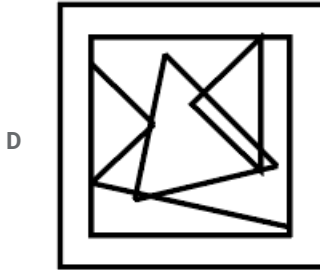
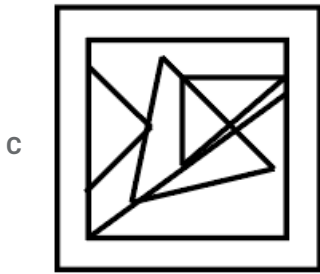
Question 23

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



X

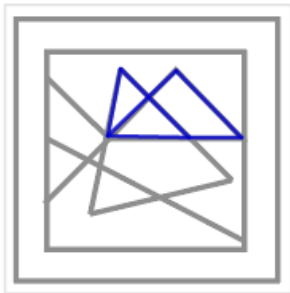




Answer: A

Explanation:

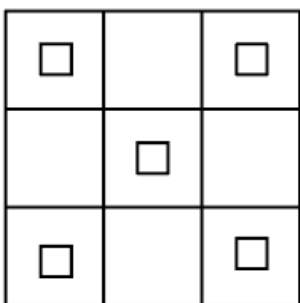
The given figure X is embedded in the figure 1 as shown below



Hence, the correct answer is Option A

Question 24

How many squares are present in the following figure ?



A 21

B 19

C 23

D 17

Answer: B

Explanation:

<div style="display: flex; flex-direction: column; align-items: center;"> <div style="border: 1px solid black; padding: 2px;">A</div> <div style="margin-top: 5px;">● B</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-top: 5px;">● C</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="border: 1px solid black; padding: 2px;">D</div> <div style="margin-top: 5px;">● E</div> </div>
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-top: 5px;">● F</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="border: 1px solid black; padding: 2px;">G</div> <div style="margin-top: 5px;">● H</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-top: 5px;">● I</div> </div>
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="border: 1px solid black; padding: 2px;">K</div> <div style="margin-top: 5px;">● J</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-top: 5px;">● L</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="border: 1px solid black; padding: 2px;">M</div> <div style="margin-top: 5px;">● N</div> </div>

The different squares in the given figure are A, D, G, K, M, B, C, E, F, H, I, J, L, N, BCFG, CEHI, FHJL, HILN, BENJ

∴ Number of squares in the given figure = 19

Hence, the correct answer is Option B

#### Question 25

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

KH, ?, QN, WT, EB

A NJ

B MJ

C LN

D MK

**Answer: B**

#### Explanation:

The difference between first letter of each letter pair is even number series as shown below

$$M-K = 13-11 = 2$$

$$Q-M = 17-13 = 4$$

$$W-Q = 23-17 = 6$$

$$E-W = 31-23 = 8$$

⇒ The first letter of the second letter-pair is M

The difference among the letters of the letter-pairs is 3 as shown below

$$K-H = 11-8 = 3$$

$$M-J = 13-10 = 3$$

$$Q-N = 17-14 = 3$$

$$W-T = 23-20 = 3$$

$$E-B = 5-2 = 3$$

⇒ The second letter of the second letter-pair is J

Hence, the correct answer is Option B

## Daily Free SSC Practice Set

### General knowledge

#### Instructions

For the following questions answer them individually

#### Question 26

The Goldman Prize which was instituted in 1989 by Richard and Rhoda Goldman is given in the field of \_\_\_\_\_.



- A Education
- B Environment
- C Painting
- D Music

**Answer: B**

**Explanation:**

It is an annual **award established in 1989** by U.S. philanthropists **Richard and Rhoda Goldman**. It is also known as **Green Nobel Prize** and **awards Cash prize** of \$200,000. It is awarded by **Goldman Environmental Foundation**, headquartered in San Francisco, California.

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**Question 27**

India's PU Chitra won gold medal in women's 1500 meter at Folksam Grand Prix 2019 held in \_\_\_\_\_.

- A Indonesia
- B France
- C Sweden
- D Russia

**Answer: C**

**Question 28**

Bhagat Singh, Sukhdev and Rajguru were executed on \_\_\_\_\_.

- A 28 January, 1933
- B 23 April, 1932
- C 23 February, 1930
- D 23 March, 1931

**Answer: D**

**Question 29**

The team that won the first two World Cup cricket tournaments was:

- A England
- B Australia
- C West Indies
- D India

**Answer: C**

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**Question 30**

Which of the following national parks is situated in Uttar Pradesh?

- A Van Vihar
- B Dudhwa
- C Hemis
- D Dachigam

**Answer: B**

**Question 31**

Who among the following was NOT a governor of Reserve Bank of India?

- A M S Gill
- B Manmohan Singh
- C M Narasimham
- D D. Subbarao

**Answer: A**

**Question 32**

The term 'Hellenistic' is related to which of the following countries?

- A India
- B Peru
- C China
- D Greece

**Answer: D**

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**Question 33**

An example of an input device is \_\_\_\_\_.

- A Headphones
- B Projector
- C Soundcard
- D Webcam

**Answer: D**

**Question 34**

A biochemical compound is any:

- A mineral-based compound found in living things
- B hydrogen-based compound found in living things
- C sulfur-based compound found in living things
- D carbon-based compound found in living things

**Answer: D**

**Question 35**

**The 2018 BWF World Tour Finals men's singles was won by:**

- A Sameer Verma
- B Shi Yuqi
- C Son Wan Ho
- D Kento Momoto

**Answer: B**

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**Question 36**

**In the context of banking system in India what is the fullform of RTGS ?**

- A Random Time Gross Settlement
- B Real Time Gain Settlement
- C Reel Time Gain Settlement
- D Real Time Gross Settlement

**Answer: D**

**Question 37**

**In the field of Information and Technology what is the fullform of ASCII ?**

- A American Standard Code for Information Interchange
- B American Standard Code for Infrastructure Interchange
- C American Standard Communication for Information Interchange
- D American Standard Code for International Interchange

**Answer: A**

**Question 38**

**In June 2019, which Ministry was created by merging the Ministry of Water Resources, River Development and Ganga Rejuvenation and the Ministry of Drinking Water and Sanitation?**

- A Jal Jeevan

- B Jal Shakti
- C Jal Sangrah
- D Jal Nidhi

Answer: B

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**Question 39**

The famous 'Tangaliya shawl' is associated to which state of India?

- A Punjab
- B Uttar Pradesh
- C Gujarat
- D Uttarakhand

Answer: C

**Question 40**

The famous Madhubani artist who won the Bihar Ratna in 1984 is \_\_\_\_\_.

- A Ganga Devi
- B Mahasundari Devi
- C Shashi Kala Devi
- D Sita Devi

Answer: D

**Question 41**

Which of the following is the major state taxes in India?

- A Corporation Tax
- B Customs duty
- C Income tax
- D Stamp duty and registration

Answer: D

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**Question 42**

The Indian ship that will take part in the 8th Indo - Myanmar Coordinated Patrol is \_\_\_\_\_.

- A INS Car Nicobar

- B INS Sukanya
- C INS Vikrant
- D INS Saryu

**Answer: D**

**Question 43**

The right pulmonary artery is \_\_\_\_\_.

- A longer than the left
- B wider than the left
- C of same size as the left
- D shorter than the left

**Answer: A**

**Question 44**

An island between India and Sri Lanka is \_\_\_\_\_.

- A Ilha grand
- B Kachchatheevu
- C Divar
- D Chorao

**Answer: B**

## SSC CHSL Free Mock Test

**Question 45**

Hampi, the ancient capital of Vijayanagara is located in:

- A Tamil Nadu
- B Kerala
- C Karnataka
- D Telengana

**Answer: C**

**Question 46**

Who among the following is famous for Classical Carnatic Music ?

- A Pandit Shivkumar Sharma
- B Pandit Kumar Gandharva
- C Balamuralikrishna

D Pandit Ravi Shankar

Answer: C

Question 47

Which of the following is not a natural greenhouse gas?

A Carbon dioxide

B Nitrogen

C Methane

D Water vapour

Answer: B

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Question 48

The Gandikota canyon, also known as the grand canyon of India is located in \_\_\_\_\_.

A Kerala

B West Bengal

C Andhra Pradesh

D Karnataka

Answer: C

Question 49

Central Potato Research Institute is located in \_\_\_\_\_.

A Kolkata

B Hyderabad

C Nagpur

D Shimla

Answer: D

Question 50

The Pacific Vanguard maritime exercise was held in \_\_\_\_\_ May 2019.

A Australia

B China

C Guam

D Japan

Answer: C

## SSC CGL Previous Papers (DOWNLOAD PDF)

### Quant

#### Instructions

For the following questions answer them individually

#### Question 51

A, B and C, alone can do a piece of work in 9, 12 and 18 days respectively. They all started the work together, but A left after 3 days. In how many days, was the remaining work completed ?

A  $\frac{11}{4}$

B  $\frac{9}{5}$

C 2

D  $\frac{5}{2}$

Answer: B

#### Explanation:

Let the Total Work =  $W$

$$\text{Work done by A in 1 day} = \frac{W}{9}$$

$$\text{Work done by B in 1 day} = \frac{W}{12}$$

$$\text{Work done by C in 1 day} = \frac{W}{18}$$

$$\text{Work done by A,B,C in 3 days} = 3 \times \frac{W}{9} + 3 \times \frac{W}{12} + 3 \times \frac{W}{18} = \frac{W}{3} + \frac{W}{4} + \frac{W}{6} = \frac{9W}{12} = \frac{3W}{4}$$

$$\text{Remaining Work after A left(after 3 days)} = W - \frac{3W}{4} = \frac{W}{4}$$

$$\text{Work done by B and C in 1 day} = \frac{W}{12} + \frac{W}{18} = \frac{5W}{36}$$

$$\therefore \text{Number of days required to complete } \frac{W}{4} \text{ work by B and C} = \frac{\frac{W}{4}}{\frac{5W}{36}} = \frac{W}{4} \times \frac{36}{5W} = \frac{9}{5}$$

Hence, the correct answer is Option B

## SSC CGL Free Mock Test (Latest Pattern)

#### Question 52

If in  $\triangle ABC$ , D is a point on BC, such that  $BD : BC = 2 : 5$ , what is the ratio  $\text{area}(\triangle ABC) : \text{area}(\triangle ABD)$ ?

A 4:9

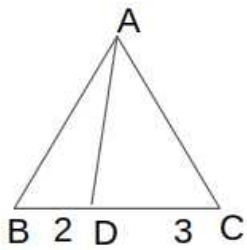
B 5:2

C 1:2

D 2:3

Answer: B

#### Explanation:



We know that area of a triangle =  $(1/2) \times \text{base} \times \text{height}$

The ratio area( $\triangle ABC$ ): area( $\triangle ABD$ ) = 5 : 2

**Question 53**

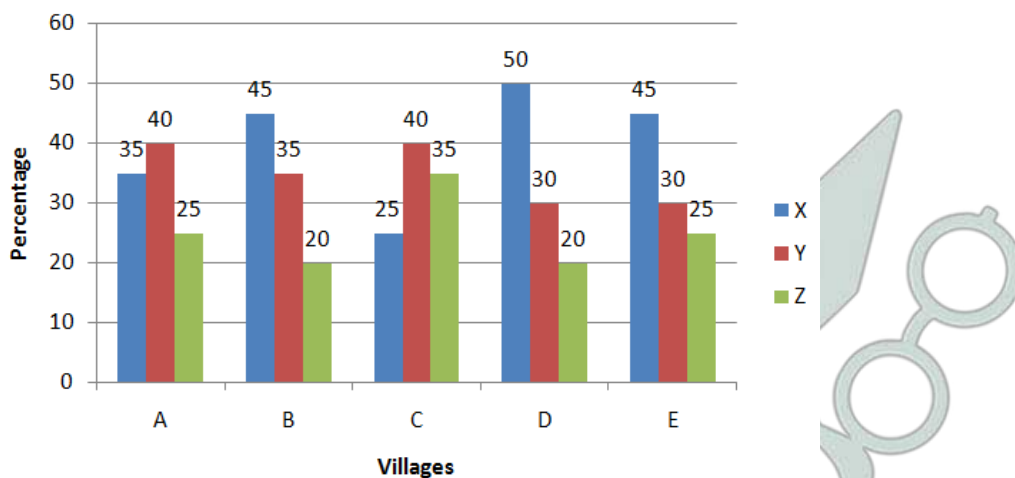
The eight digit number  $5x32465y$  is divisible by 88. What is the value of  $(2x + 3y)$  ?

- A 20
- B 24
- C 16
- D 18

Answer: B

**Question 54**

The given Bar Graph presents the percentages of population in the age groups, X(above 50 years), Y(20 to 50 years), Z(below 20 years) in five different villages, A, B, C, D and E with total population of 5000, 6000, 8000, 4500 and 6000 respectively.



What is the ratio of the total number of persons of ages above 50 years in the villages, B and C, taken together to the total number of persons having ages between 20 and 50 years in the said villages ?

- A 24 : 27
- B 51 : 59
- C 47 : 53
- D 49 : 57

Answer: C

**Explanation:**

The total number of persons of ages above 50 years in the villages B and C together =  $\frac{45}{100} \times 6000 + \frac{25}{100} \times 8000 = 2700 + 2000 = 4700$

The total number of persons of ages between 20 to 50 years in the villages B and C together =  $\frac{35}{100} \times 6000 + \frac{40}{100} \times 8000 = 2100 +$



$$3200 = 5300$$

∴ Required ratio = 47000 : 53000 = 47 : 53

Hence, the correct answer is Option C

## SSC CHSL Important Questions and Answers (Download PDF)

### Question 55

if  $2\sin^2\theta + 3\sin\theta - 2 = 0$ ,  $0^\circ < \theta < 90^\circ$  then value of  $\theta$  is

- A  $60^\circ$
- B  $90^\circ$
- C  $45^\circ$
- D  $30^\circ$

Answer: D

#### Explanation:

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

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

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

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

$$\Rightarrow 2\sin\theta - 1 = 0 \text{ (or) } \sin\theta + 2 = 0$$

$$\Rightarrow \sin\theta = \frac{1}{2} \text{ (or) } \sin\theta = -2$$

$\sin\theta = -2$  is not possible

$$\therefore \sin\theta = \frac{1}{2}$$

$$\Rightarrow \theta = 30^\circ \text{ since } 0^\circ < \theta < 90^\circ$$

Hence, the correct answer is Option D

### Question 56

If  $a = \sqrt{8} - \sqrt{7}$  and  $a = \frac{1}{b}$  then  $\frac{a^2+b^2-3ab}{a^2+b^2+ab}$  is equal to

- A  $\frac{29}{31}$
- B  $\frac{27}{32}$
- C  $\frac{29}{33}$
- D  $\frac{27}{31}$

Answer: D

#### Explanation:

Given,  $a = \sqrt{8} - \sqrt{7}$  and

$$a = \frac{1}{b} \Rightarrow b = \frac{1}{a} = \frac{1}{\sqrt{8} - \sqrt{7}}$$

$$\Rightarrow b = \frac{1}{\sqrt{8} - \sqrt{7}} \times \frac{\sqrt{8} + \sqrt{7}}{\sqrt{8} + \sqrt{7}}$$

$$\Rightarrow b = \frac{\sqrt{8} + \sqrt{7}}{8-7}$$

$$\Rightarrow b = \sqrt{8} + \sqrt{7}$$

$$\therefore \frac{a^2 + b^2 - 3ab}{a^2 + b^2 + ab} = \frac{(a-b)^2 - ab}{(a+b)^2 - ab} = \frac{(-2\sqrt{7})^2 - [(\sqrt{8}-\sqrt{7})(\sqrt{8}+\sqrt{7})]}{(2\sqrt{8})^2 - [(\sqrt{8}-\sqrt{7})(\sqrt{8}+\sqrt{7})]} = \frac{4(7) - [8-7]}{4(8) - [8-7]} = \frac{28-1}{32-1} = \frac{27}{31}$$

#### Question 57

The price of petrol is increased by 24%. A person wants to increase his expenditure by 14% only. By what percentage (correct to one decimal place), should he decrease his consumption in order to maintain the same level of expenditure ?

- A 8.3
- B 7.9
- C 8.1
- D 7.8

Answer: C

#### Explanation:

Let the cost of Petrol be ₹100 and the consumption be 10 litres

So there is expenditure of ₹100 × 10 = ₹1000 on petrol

The price of petrol is increased by 24%.

So, the increased price must be ₹100 + ₹24 = ₹124 which is cost for 100% consumption.

For 10 litres consumption it works out to be ₹124 × 10 = ₹1240 at increased petrol prices.

This person wants to increase his expenditure by 14% only, which means that in place of ₹1240, he want to spend only ₹1140.

In ₹1140 the petrol quantity at increased rate (₹124) could be purchased as

$$\frac{₹1140}{₹124} = 9.1935 \text{ litres}$$

Thus Reduction in consumption has to be

$$= 10 \text{ litres} - 9.1935 \text{ litres} = 0.8065 \text{ litres}$$

$$\text{Percent reduction} = \frac{0.8065 \times 100}{10} = 8.065\% \text{ (close to 8.1\%)}$$

Thus this person has to reduce consumption by 8.065% to maintain the same level of expenditure.

hence answer is option c

## SSC CHSL Study Material

#### Question 58

The difference between compound interest and simple interest on ₹x at 6.5% per annum for 2 years is ₹33.80. What is the value of x?

- A ₹7800
- B ₹8000
- C ₹7500
- D ₹8500

Answer: B

#### Explanation:

Given, the difference between compound interest and simple interest for 2 years = ₹33.80

Rate (R%) = 6.5%

Principal (P) = ₹x

From the formula, difference between compound interest and simple interest for 2 years =  $P \left( \frac{R}{100} \right)^2$

$$\Rightarrow 33.8 = x \times \left( \frac{6.5}{100} \right)^2$$

$$\Rightarrow x = \frac{33.8 \times 100 \times 100}{6.5 \times 6.5}$$

$$\Rightarrow x = ₹8000$$

Hence, the correct answer is Option B

#### Question 59

The simplified value of  $20 - [2.8 \times 5 + 0.7 - 3 \div 0.9 \times 1.53 + 2]$  is equal to:

A 8.4

B 3.8

C 6.6

D 3.4

Answer: A

#### Question 60

A person covers 40% of a distance with a speed of 60 km/h and the remaining with a speed of 40 km/h. What is his average speed for the whole journey in km/h?

A  $\frac{600}{11}$

B  $\frac{500}{13}$

C  $\frac{500}{11}$

D  $\frac{600}{13}$

Answer: D

#### Explanation:

Let the total distance covered =  $L$  km

$$\text{Time taken by the person to cover 40\% distance} = \frac{\frac{40}{100}L}{60} = \frac{40L}{60 \times 100} = \frac{2L}{3 \times 100}$$

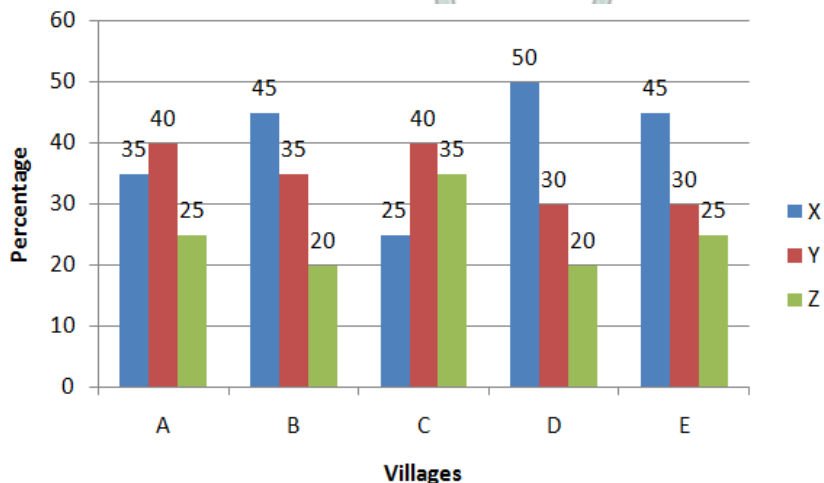
$$\text{Time taken by the person to cover 60\% distance} = \frac{\frac{60}{100}L}{40} = \frac{60L}{40 \times 100} = \frac{3L}{2 \times 100}$$

$$\therefore \text{Average Speed} = \frac{\text{Total Distance}}{\text{Total Time}} = \frac{2L}{3 \times 100} + \frac{3L}{2 \times 100} = \frac{1}{100} \left[ \frac{2L}{3} + \frac{3L}{2} \right] = \frac{100L}{6} = \frac{100L \times 6}{13L} = \frac{600}{13}$$

SSC CHSL Free App

Question 61

The given Bar Graph presents the percentages of population in the age groups, X(above 50 years), Y(20 to 50 years), Z(below 20 years)in five different villages, A, B, C, D and E with total population of 5000, 6000, 8000, 4500 and 6000 respectively.



The number of persons having ages below 20 years in villages, B and C taken together is what percentage of the total population of the said villages?

A  $\frac{190}{7}$

B  $\frac{200}{7}$

C  $\frac{186}{5}$

D  $\frac{184}{5}$

Answer: B

Explanation:

Number of persons having age below 20 years in Village B =  $\frac{20}{100} \times 6000 = 1200$

Number of persons having age below 20 years in Village C =  $\frac{35}{100} \times 8000 = 2800$

Total Population of B = 6000

Total Population of C = 8000

$\therefore$  Required Percentage =  $\frac{1200+2800}{6000+8000} \times 100 = \frac{4000}{14000} \times 100 = \frac{200}{7}$

Hence, the correct answer is Option B

Question 62

Four cubes, each of edge 5 cm are joined end to end. What is the total surface area of the resulting cuboid ?

A  $475 \text{ cm}^2$

B  $450 \text{ cm}^2$

C  $600 \text{ cm}^2$

D  $500 \text{ cm}^2$

Answer: B

Explanation:

When four cubes are joined end to end,

Length of the resulting cuboid ( $l$ ) =  $4 \times 5 = 20 \text{ cm}$

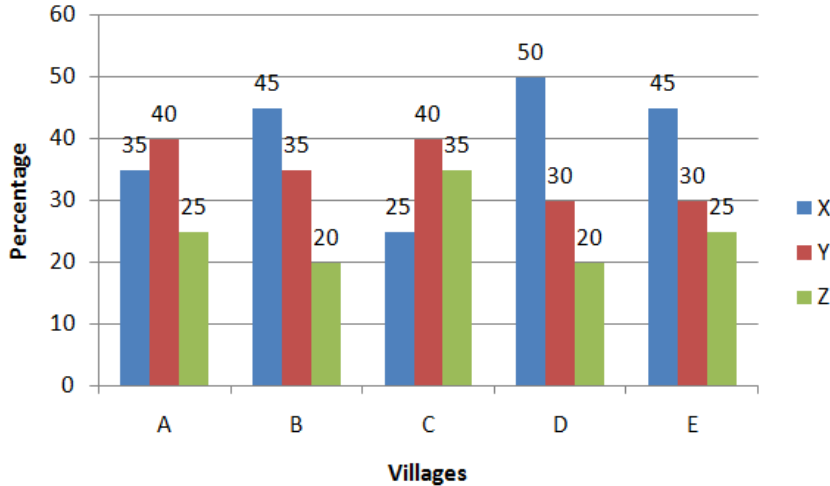
Breadth of the resulting cuboid ( $b$ ) = 5 cm

Height of the resulting cuboid ( $h$ ) = 5 cm

Total Surface Area of the cuboid =  $2[lb + bh + lh] = 2[(20)(5) + (5)(5) + (20)(5)] = 2[100 + 25 + 100] = 2(225) = 450 \text{ cm}^2$

### Question 63

The given Bar Graph presents the percentages of population in the age groups, X(above 50 years), Y(20 to 50 years), Z(below 20 years) in five different villages, A, B, C, D and E with total population of 5000, 6000, 8000, 4500 and 6000 respectively.



What is the total number of persons in the age group of 20 to 50 years in the villages A and B, taken together?

- A 4000
- B 4300
- C 4200
- D 4100

Answer: D

### Explanation:

Number of persons in the age group of 20 to 50 years in the village A =  $\frac{40}{100} \times 5000 = 2000$

Number of persons in the age group of 20 to 50 years in the village B =  $\frac{35}{100} \times 6000 = 2100$

$\therefore$  Total number of persons in the age group of 20 to 50 years in both the Villages A and B =  $2000 + 2100 = 4100$

Hence, the correct answer is Option D

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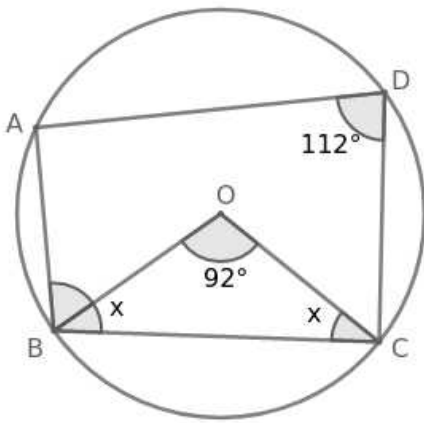
### Question 64

A quadrilateral ABCD is inscribed in a circle with centre O. If  $\angle BOC = 92^\circ$  and  $\angle ADC = 112^\circ$ , then  $\angle ABO$  is equal to:

- A  $24^\circ$
- B  $22^\circ$
- C  $28^\circ$
- D  $26^\circ$

Answer: A

Explanation:



In  $\triangle OBC$ ,

$OC = OB$

$\Rightarrow \angle OBC = \angle OCB$

Let  $\angle OBC = \angle OCB = x$

$\angle OBC + \angle OCB + \angle BOC = 180^\circ$

$\Rightarrow x + x + 92^\circ = 180^\circ$

$\Rightarrow 2x = 88^\circ$

$\Rightarrow x = 44^\circ$

$\Rightarrow \angle OBC = \angle OCB = 44^\circ$

In cyclic quadrilateral ABCD, sum of opposite angles =  $180^\circ$

$\Rightarrow \angle ABC + \angle ADC = 180^\circ$

$\Rightarrow \angle ABO + \angle OBC + \angle ADC = 180^\circ$

$\Rightarrow \angle ABO + 44^\circ + 112^\circ = 180^\circ$

$\Rightarrow \angle ABO + 156^\circ = 180^\circ$

$\Rightarrow \angle ABO = 24^\circ$

Hence, the correct answer is Option A

#### Question 65

The cost price of an article is ₹425. A shopkeeper gives a discount of 20% and still gains 16%. What is the marked price of the article?

A ₹620.50

B ₹624.50

C ₹605.75

D ₹616.25

Answer: D

Explanation:

Given,

Cost price of the article = ₹425

Profit% = 16%

$$\Rightarrow \text{Selling price of the article} = \frac{116}{100} \times 425 = ₹493$$

Let the Marked price = M.P

$$\text{Discount\%} = 20\%$$

$$\Rightarrow \frac{80}{100} \times \text{M.P} = 493$$

$$\Rightarrow \frac{4}{5} \times \text{M.P} = 493$$

$$\Rightarrow \text{M.P} = \frac{2465}{4}$$

$$\Rightarrow \text{M.P} = 616.25$$

$\therefore$  Marked price of the article = ₹616.25

Hence, the correct answer is Option D

#### Question 66

If  $a + b + c = 5$  and  $ab + bc + ca = 4$ , then  $a^3 + b^3 + c^3 - 3abc$  is equal to:

A 72

B 62

C 68

D 65

Answer: D

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#### Question 67

if  $\tan\theta = \frac{3}{5}$ ,  $0 < \theta < 90^\circ$  then  $\sin\theta\cos\theta$  is equal to:

A  $\frac{\sqrt{17}}{\sqrt{34}}$

B  $\frac{\sqrt{14}}{\sqrt{34}}$

C  $\frac{4}{\sqrt{34}}$

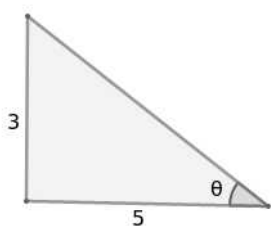
D  $\frac{15}{34}$

Answer: D

#### Explanation:

Given,

$$\tan\theta = \frac{3}{5}$$



From the triangle,

$$\text{Hypotenuse}^2 = 3^2 + 5^2$$

$$\Rightarrow \text{Hypotenuse} = \sqrt{34}$$

$$\sin \theta = \frac{\text{Opposite side}}{\text{Hypotenuse}} = \frac{3}{\sqrt{34}}$$

$$\cos \theta = \frac{\text{Adjacent side}}{\text{Hypotenuse}} = \frac{5}{\sqrt{34}}$$

$$\therefore \sin \theta \cos \theta = \frac{3}{\sqrt{34}} \times \frac{5}{\sqrt{34}} = \frac{15}{34}$$

Hence, the correct answer is Option D

#### Question 68

What is the ratio of the mean proportional between 14.4 and 3.6 and the third proportional of 5 and 4?

- A 9:4
- B 8:5
- C 4:9
- D 5:8

Answer: A

#### Explanation:

Let the mean proportional between 14.4 and 3.6 =  $x$

$$\Rightarrow x^2 = 14.4 \times 3.6$$

$$\Rightarrow x^2 = \frac{144}{10} \times \frac{36}{10}$$

$$\Rightarrow x = \frac{72}{10}$$

Let the third proportional of 5 and 4 =  $y$

$$\Rightarrow 4^2 = 5 \times y$$

$$\Rightarrow y = \frac{16}{5}$$

$$\therefore \text{Required ratio} = \frac{72}{10} : \frac{16}{5} = \frac{72}{10} : \frac{32}{10} = 9 : 4$$

#### Question 69

Given that  $x, y, z$  are positive real numbers, if  $(x + y)^2 - z^2 = 8$ ,  $(y + z)^2 - x^2 = 10$  and  $(x + z)^2 - y^2 = 7$ , then  $(x + y + z)$  is equal to:

- A 5
- B 8
- C 7
- D 6

Answer: A

#### Explanation:

$$\text{Given } (x + y)^2 - z^2 = 8 \dots\dots\dots(1)$$

$$(y + z)^2 - x^2 = 10 \dots\dots\dots(2)$$

$$(x + z)^2 - y^2 = 7 \dots\dots\dots(3)$$

Adding equations (1),(2),(3) we get

$$(x + y)^2 - z^2 + (y + z)^2 - x^2 + (x + z)^2 - y^2 = 8 + 10 + 7$$



$$x^2 + y^2 + 2xy - z^2 + y^2 + z^2 + 2yz - x^2 + x^2 + z^2 + 2zx - y^2 = 25$$

$$x^2 + y^2 + z^2 + 2xy + 2yz + 2zx = 25$$

$$(x + y + z)^2 = 25$$

$$\Rightarrow x + y + z = 5$$

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### Question 70

The selling price of 24 articles is equal to the cost price of 26 articles. What is the gain percentage (correct to one decimal place) in such a situation ?

A  $\frac{26}{3} \%$

B  $\frac{25}{3} \%$

C  $\frac{105}{13} \%$

D  $\frac{100}{3} \%$

Answer: B

#### Explanation:

let cost price of each article = x

and profit on each article = y

then, selling price of each article = x + y

a/c to question,

$$24 \times \text{selling price} = 26 \times \text{cost price}$$

$$\Rightarrow 24 \times (x + y) = 26 \times x$$

$$\Rightarrow 24x + 24y = 26x$$

$$\Rightarrow 24y = 2x$$

$$\Rightarrow y = x/12$$

the percentage profit = profit/cost price  $\times 100$

$$= (x/12)/x \times 100$$

$$= 100/12 = 25/3 \%$$

hence answer is option B

### Question 71

If  $\triangle ABC$ ,  $\angle ABC = 90^\circ$  and  $BD \perp AC$ , if  $AD = 4\text{cm}$  and  $CD = 5\text{cm}$  then  $BD$  is equal to

A  $3\sqrt{5}$

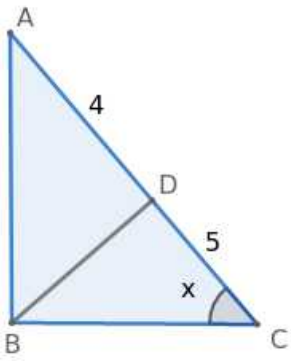
B  $2\sqrt{5}$

C  $3\sqrt{2}$

D  $4\sqrt{5}$

Answer: B

#### Explanation:



Let  $\angle C = x$

In  $\triangle ABC$ ,

$$\cos x = \frac{BC}{9}$$

$$\Rightarrow BC = 9 \cos x$$

In  $\triangle BCD$ ,

$$\cos x = \frac{5}{BC}$$

$$\Rightarrow \cos x = \frac{5}{9 \cos x}$$

$$\Rightarrow \cos^2 x = \frac{5}{9}$$

$$\Rightarrow \cos x = \frac{\sqrt{5}}{3}$$

$$\Rightarrow \sin x = \sqrt{1 - \cos^2 x} = \sqrt{1 - \frac{5}{9}} = \sqrt{\frac{4}{9}} = \frac{2}{3}$$

In  $\triangle BCD$ ,

$$\sin x = \frac{BD}{BC}$$

$$\Rightarrow \frac{2}{3} = \frac{BD}{9 \cos x}$$

$$\Rightarrow \frac{2}{3} = \frac{BD}{9 \left(\frac{\sqrt{5}}{3}\right)}$$

$$\Rightarrow \frac{2}{3} = \frac{3BD}{9(\sqrt{5})}$$

$$\Rightarrow BD = 2\sqrt{5}$$

Hence, the correct answer is Option B

#### Question 72

The average of 24 numbers is 65. The average of first 11 numbers is 67 and the average of last 10 numbers is 70. If the 12th number is 13 less than the 13th number, and the 14th number is one more than the 13th number, then the average of 12th and 14th number is:

Latek

A 39

B 36

C 42

D 26

Answer: A

**Explanation:**

Since we have given that

Numbers = 24

Average = 65

So, Sum of 24 observations =

$$24 \times 65 = 1560$$

Average of first 11 numbers = 67

So, Sum of first 11 observations =

$$67 \times 11 = 737$$

Average of last 10 number = 70

So, Sum of first 10 observations =

$$10 \times 70 = 700$$

Let the 13th number be 'x'.

Let the 12th number be 'x-13'

Let the 14th number be 'x+1'

So, it becomes,

$$\text{Sum of first 11 numbers} + x + x - 13 + x + 1 + \text{sum of last 10 numbers} = 1560$$

$$737 + x + x - 13 + x + 1 + 700 = 1560$$

$$3x = 1560 - 1437 + 12$$

$$x = 135/3$$

$$x = 45$$

So, the 12th number =  $45 - 13 = 32$

The 14th number =  $45 + 1 = 46$

So, the average of 12th and 14th number is

$$\frac{46 + 32}{2} = \frac{78}{2}$$

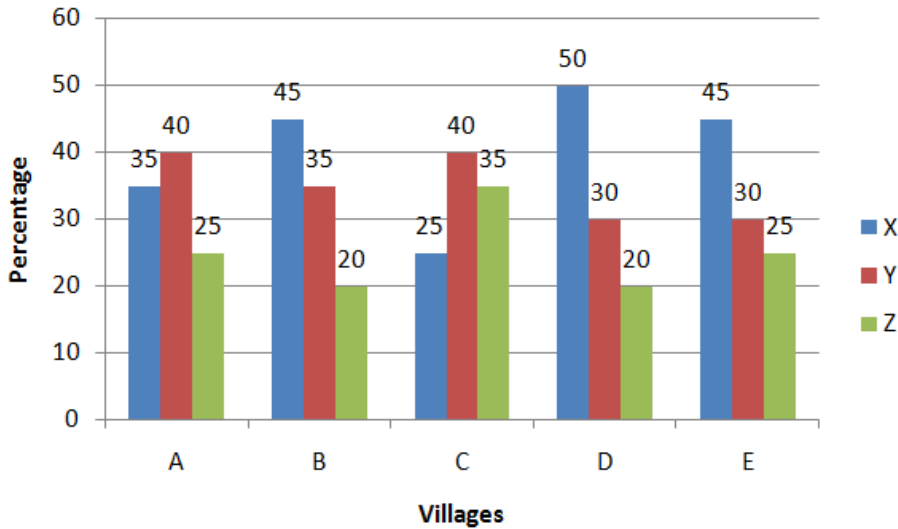
$$= 39$$

Hence answer is option a

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Question 73

The given Bar Graph presents the percentages of population in the age groups, X(above 50 years), Y(20 to 50 years), Z(below 20 years)in five different villages, A, B, C, D and E with total population of 5000, 6000, 8000, 4500 and 6000 respectively.



The difference between the number of persons of ages below 20 years in villages D and E, taken together, is what percentage of the number of persons of the same age group in village D?

A  $\frac{185}{3}$

B  $\frac{182}{3}$

C  $\frac{190}{3}$

D  $\frac{200}{3}$

Answer: D

Explanation:

The number of persons of age below 20 years in Village D =  $\frac{20}{100} \times 4500 = 900$

The number of persons of age below 20 years in Village E =  $\frac{25}{100} \times 6000 = 1500$

$\therefore$  Required Percentage =  $\frac{1500-900}{900} = \frac{600}{900} \times 100 = \frac{200}{3} \%$

Question 74

If  $(\sin^2 36^\circ + \tan^2 60^\circ + \sec^2 30^\circ + \sin^2 54^\circ)$  is equal to:

A  $\frac{14}{3}$

B  $\frac{17}{3}$

C  $\frac{16}{3}$

D 5

Answer: C

Explanation:

$$\sin^2 36^\circ + \tan^2 60^\circ + \sec^2 30^\circ + \sin^2 54^\circ = \sin^2 36^\circ + \tan^2 60^\circ + \sec^2 30^\circ + \sin^2(90 - 36)^\circ$$

$$= \sin^2 36^\circ + \cos^2 36^\circ + \tan^2 60^\circ + \sec^2 30^\circ$$

$$= 1 + (\sqrt{3})^2 + \left(\frac{2}{\sqrt{3}}\right)^2$$

$$= 1 + 3 + \frac{4}{3}$$

$$= \frac{16}{3}$$

Hence, the correct answer is Option C

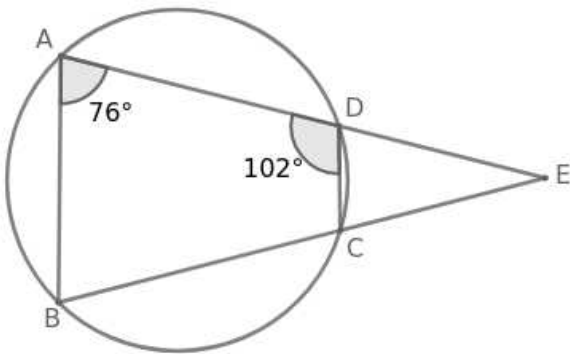
**Question 75**

In a circle, chords AD and BC meet at a point E outside the circle. If  $\angle BAE = 76^\circ$  and  $\angle ADC = 102^\circ$ , then  $\angle AEC$  is equal to:

- A  $25^\circ$
- B  $28^\circ$
- C  $26^\circ$
- D  $24^\circ$

**Answer: C**

**Explanation:**



In cyclic quadrilateral ABCD, sum of opposite angles =  $180^\circ$

$$\Rightarrow \angle BAE + \angle BCD = 180^\circ$$

$$\Rightarrow 76^\circ + \angle BCD = 180^\circ$$

$$\Rightarrow \angle BCD = 104^\circ$$

From the figure,

$$\angle ADC + \angle EDC = 180^\circ$$

$$\Rightarrow 102^\circ + \angle EDC = 180^\circ$$

$$\Rightarrow \angle EDC = 78^\circ$$

$$\angle BCD + \angle ECD = 180^\circ$$

$$\Rightarrow 104^\circ + \angle ECD = 180^\circ$$

$$\Rightarrow \angle ECD = 76^\circ$$

In  $\triangle CDE$ ,

$$\angle DEC + \angle ECD + \angle EDC = 180^\circ$$

$$\Rightarrow \angle AEC + 76^\circ + 78^\circ = 180^\circ$$

$$\Rightarrow \angle AEC + 154^\circ = 180^\circ$$

$$\Rightarrow \angle AEC = 26^\circ$$

Hence, the correct answer is Option C

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English

### Instructions

For the following questions answer them individually

#### Question 76

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

- A. One population lives in the Bwindi National Park in Uganda.
- B. Mountain gorillas are some of the most threatened animals on the planet.
- C. Only two groups of mountain gorillas remain.
- D. The other group lives in the Virunga Mountains.

- A BCAD
- B BDCA
- C CDBA
- D ABCD

Answer: A

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#### Question 77

Select the most appropriate antonym of the given word.

**CONCLUSIVE**

- A decisive
- B ambiguous
- C undeniable
- D clear

Answer: B

#### Question 78

Select the correct passive form of the given sentence.

**Everyone should obey traffic regulations.**

- A Traffic regulations are obeyed by everyone.
- B Traffic regulations should be obeyed by everyone.
- C Traffic regulations should be obey by everyone.
- D Traffic regulations will be obeyed by everyone.

Answer: B

**Question 79**

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.

Women in traditional costumes welcoming a foreign dignitaries.

- A welcome to foreign dignitaries
- B No improvement
- C welcomed the foreign dignitaries
- D welcomes the foreigner dignitaries

**Answer: C**

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**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:**

Rivers around the world are (1) \_\_\_\_\_ with dangerous levels of antibiotics, (2) \_\_\_\_\_ to a recent study. Concentration of antibiotics in some waterways (3) \_\_\_\_\_ safety levels by 300 times. Researchers looked at several (4) \_\_\_\_\_ used antibiotics in rivers flowing (5) \_\_\_\_\_ 72 countries.

**Question 80**

Select the most appropriate option for blank No. 1

- A infected
- B contaminated
- C fouled
- D tainted

**Answer: B**

**Question 81**

Select the most appropriate option for blank No. 2

- A consistent
- B according
- C reported
- D conforming

**Answer: B**

**Question 82**

Select the most appropriate option for blank No. 3

- A outgrows
- B exceeds

- C excels
- D outpaces

Answer: B

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### Question 83

Select the most appropriate option for blank No. 4

- A unusually
- B badly
- C commonly
- D likely

Answer: C

### Question 84

Select the most appropriate option for blank No. 5

- A below
- B above
- C through
- D with

Answer: C

### Instructions

For the following questions answer them individually

### Question 85

Select the correct indirect form of the given sentence.

The boss said to his employee, "I will be happy if you finish this project by evening."

- A The boss told his employee that he would be happy if he will finish this project by evening.
- B The boss told his employee that he would be happy if he finishes that project by evening.
- C The boss told his employee that he would be happy if he finished that project by evening.
- D The boss told his employee he will be happy if he finished this project by evening.

Answer: C

## SSC CHSL Previous Papers (DOWNLOAD PDF)

### Question 86

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

She has a good job and a happy family. She has best of both the worlds.



- A all the advantages
- B advantages and disadvantages
- C a good career
- D a contented family

Answer: A

**Question 87**

Select the word which means the same as the group of words given.  
People living at the same time

- A contemporaries
- B cosmopolitans
- C comrades
- D friends

Answer: A

**Question 88**

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.

With each passing day he was going in more trouble.

- A he was getting into
- B he were going to
- C he are getting in
- D No improvement

Answer: A

## SSC CGL Previous Papers (DOWNLOAD PDF)

**Question 89**

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

- A. In fact, there are about 800 million mobile phone users now.
- B. They have been in use in the country for over two decades.
- C. Mobile companies are regularly bringing out phones with new features for these users.
- D. There are billions of mobile phones in India today.

- A ACBD
- B DBAC
- C ABCD
- D DCAB

Answer: B

**Question 90**

Select the most appropriate option to fill in the blank.  
The crisis would \_\_\_\_\_ damage their reputation.

- A further
- B either
- C neither
- D farther

**Answer: A**

**Question 91**

Select the most appropriate synonym of the given word.  
CLIMAX

- A culmination
- B preface
- C prologue
- D epilogue

**Answer: A**

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**Question 92**

Select the correctly spelt word.

- A counterfeit
- B counterfate
- C countorfeit
- D counterfiet

**Answer: A**

**Question 93**

Select the most appropriate option to fill in the blank.  
The hotel room \_\_\_\_\_ of odour of leftover food.

- A reeked
- B smoked
- C flavoured
- D traced

**Answer: A**

**Question 94**

Select the word which means the same as the group of words given.  
One who can use both hands efficiently

- A ambivalent
- B genius
- C skillful
- D ambidextrous

**Answer: D**

## SSC CHSL Important Questions and Answers (Download PDF)

**Question 95**

Select the most appropriate antonym of the given word.  
ROUTINE

- A regular
- B accepted
- C different
- D normal

**Answer: C**

**Question 96**

Select the most appropriate meaning of the underlined idiom in the given sentence.  
I am not thinking of the solution to this problem. I will cross the bridge when I come to it.

- A deal with something only when necessary
- B not even think about the problem
- C not deal with the problem at all
- D let someone else deal with the problem

**Answer: A**

**Question 97**

Select the correctly spelt word.

- A acquisition
- B acquasition
- C acquesition
- D acquisition

**Answer: D**

## SSC CHSL Study Material

### Question 98

In the sentence identify the segment which contains the grammatical error.  
I will stop to refreshments at the next restaurant on the highway.

- A I will stop
- B to refreshments
- C at the next restaurant
- D on the highway

Answer: B

### Question 99

Select the most appropriate synonym of the given word.  
MANUAL

- A dictionary
- B directory
- C handbook
- D thesaurus

Answer: C

### Question 100

In the sentence identify the segment which contains the grammatical error.  
Our nation can make significant growth but if we all work collectively.

- A work collectively
- B Our nation can
- C but if we all
- D make significant growth

Answer: C

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