



## SSC CHSL 10 July 2019 Shift-2

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## Reasoning

### Instructions

For the following questions answer them individually

### Question 1

If it was a Sunday on 1 January 2017, what was the day of the week on 31 December 2017?

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

**Answer:** C

### Explanation:

Year 2017 was normal year,

Number of days in 2017 = 365

So, 52 weeks and one odd day

1st January 2017 was Sunday means 30th December 2016 is Saturday

So, 31st December 2017 would be Sunday

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### Question 2

Select the set in which the numbers are related in the same way as are the numbers of the following set.  
(15, 49, 151)

- A (5, 19, 61)
- B (6, 18, 37)
- C (25, 79, 137)
- D (17, 55, 155)

**Answer:** A

### Explanation:

$$(15, 49, 151) = 15 \times 3 + 4 = 49, 49 \times 3 + 4 = 151$$

In the same way option A is

$$(5, 19, 61) = 5 \times 3 + 4 = 19, 19 \times 3 + 4 = 61$$

### Question 3

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 459
- B 259
- C 639
- D 189

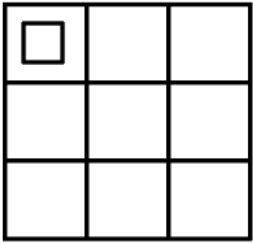
Answer: B

**Explanation:**

sum of all the digits of the options is equal to 18 except  $259 = 2+5+9=18$ , so 259 is different.

**Question 4**

How many squares are present in the following figure ?



A 16

B 15

C 12

D 10

Answer: B

**Explanation:**

1 big square= 1 square

Inside big square (9+1) small square= 10 square

4 small square togetherly make one square so in this way 4 square will be there= 4 square

Total =  $1+10+4= 15$

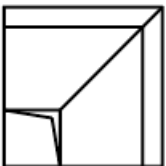
## SSC CHSL Free Mock Test

**Question 5**

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

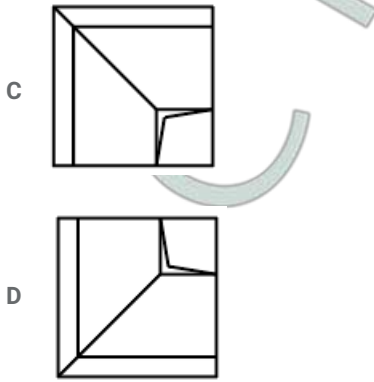


A



B





Answer: D

**Explanation:**

As we know that the right side of the object appears on the left side and vice versa in mirror image, and in the given figure mirror is placed at the left of the figure, so option D is the answer.

**Question 6**

Arrange the following words in a logical sequence as they would appear in the English dictionary.

1. Jacklight
2. Jacket
3. Jade
4. Joker
5. Jampacked

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

Answer: C

**Explanation:**

2, 3, 1, 4, 5

**Question 7**

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

12, 22, 42, 72, ?

- A 102
- B 112
- C 92
- D 122

Answer: B

**Explanation:**

$$12+10=22$$

$$22+20=42$$

$$42+30=72$$

$$72+40=112$$

Ans: B

## SSC CHSL Previous Papers (DOWNLOAD PDF)

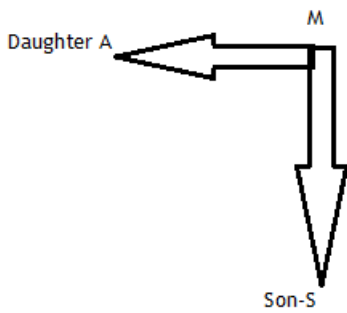
### Question 8

S is son of M. R is the father of Q and A. A is the daughter of M. How is A related to S ?

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

Answer: A

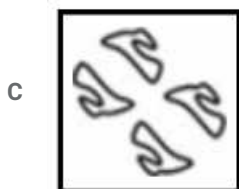
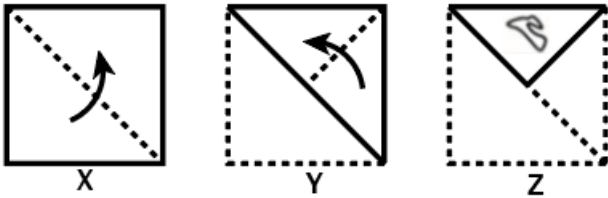
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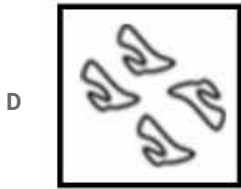


A is sister of S.

### Question 9

A paper is folded and cut as shown below. How will it appear when unfolded ?





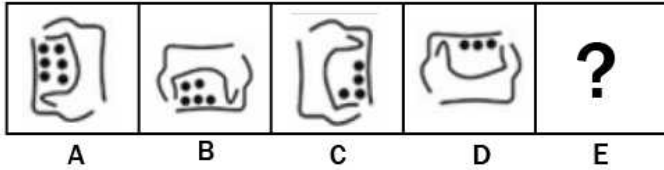
Answer: A

**Explanation:**

we will start with the last figure and move on to the first one, while tracing out all the spots on each step. After tracing that we will see that out of the four options, the only one that represents the answer figure is the one in option (a).

**Question 10**

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



Answer: C

**Explanation:**

The figure is moving 90 degree anti clock wise.

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**Question 11**

'HONEY' is related to 'BEE' in the same way as 'EGG' is related to '.....!'

A YOLK

B LARVA

- C BIRD
- D OOLOGY

Answer: C

Explanation:

Bee produces honey in the same way bird gives egg.

Question 12

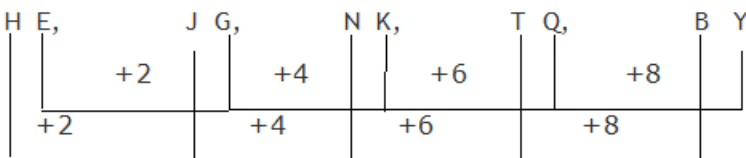
Which letter-pair will replace the question mark (?) in the following series?

HE, ?, NK, TQ, BY

- A IK
- B JH
- C JG
- D IG

Answer: C

Explanation:

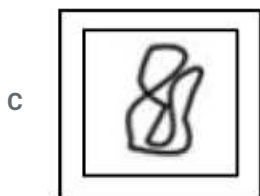
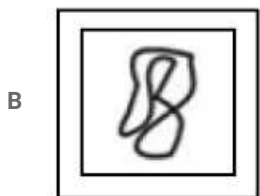
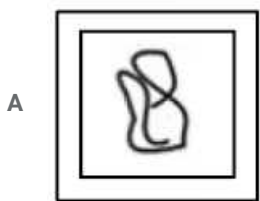


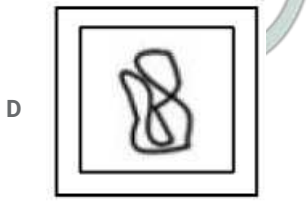
Question 13

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



X





Answer: D

**Explanation:**

If the rotation is not allowed then the given figure is embedded in option D only.

## SSC CGL Free Mock Test (Latest Pattern)

**Question 14**

If EAST is coded as 180 and NORTH is coded as 375, then how will SOUTH be coded as?

- A 83
- B 415
- C 625
- D 332

Answer: B

**Explanation:**

Each letter is represented by their position in the English alphabetical series.

$$E-5, A-1, S-19, T-20 = (5+1+19+20) = 45 \times 4 = 180$$

$$N-14, O-15, R-18, T-20, H-8 = (14+15+18+20+8) = 75 \times 5 = 375$$

Pattern is after adding the digit we have to multiply with the number of alphabet in the words.

SOUTH,

$$S-19, O-15, U-21, T-20, H-8 = (19+15+21+20+8) = 83 \times 5 = 415$$

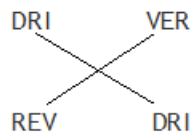
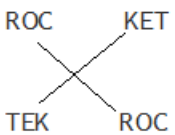
**Question 15**

In a code language, ROCKET is written as TEKROC. How will DRIVER be written as in that language?

- A REVDRJ
- B REUDRI
- C RFVDRI
- D REVDRJ

Answer: D

**Explanation:**





Question 16

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.  
Mumbai : Capital

- A Hill : High
- B Yen : Currency
- C Delhi : Tajmahal
- D Newyork : China

Answer: B

Explanation:

Mumbai is the capital of Maharashtra in the same way Yen is the Currency of Japan

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

Question 17

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 hens are eggs.

No birds are eggs.

All eggs are lions.

Conclusions:

I. All hens are lions.

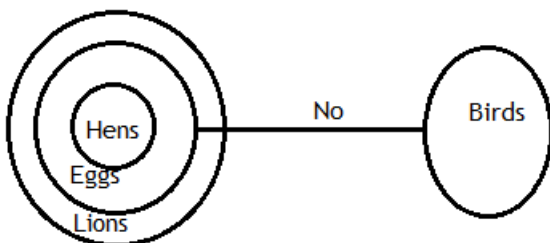
II. Some lions are hens.

III. No eggs are birds.

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

Answer: D

Explanation:



All the conclusion follows.

Question 18

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.  
8 : 72

- A 11 : 132

B 15 : 625

C 13 : 156

D 12 : 144

Answer: A

Explanation:

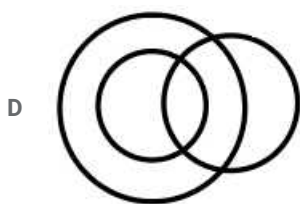
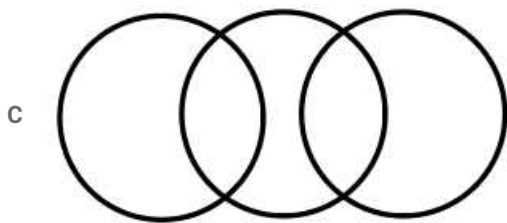
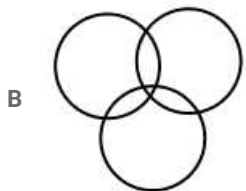
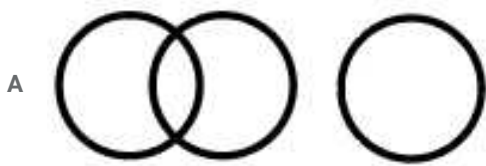
8 : 72 in the same way 11 : 132

$$\boxed{8 \times 9}$$

$$\boxed{11 \times 12}$$

Question 19

Select the Venn diagram that best illustrates the relationship between the following classes.  
Flowers, Roses, Yellow



Answer: D

Explanation:

All roses are flowers, some roses are yellow and some flowers are yellow

## SSC CHSL Study Material

Question 20

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

A KOS

B DGL

C BFJ

D MQU

Answer: B

Explanation:

Except option B, DGL all are +3 with the previous letter.

D	G	L
+3	+5	

Question 21

Select the set in which the numbers are related in the same way as are the numbers of the following set.  
(16, 64, 320)

A (15, 60, 310)

B (25, 75, 125)

C (15, 45, 180)

D (10, 40, 200)

Answer: D

Explanation:

(16, 64, 320) pattern is divided by 1st number gives (1, 4, 20)

in the same way (10, 40, 200) divided by 1st number gives (1, 4, 20)

Question 22

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

$$35 + 7 - 5 \times 2 \div 25 = 20$$

A + and ÷

B × and −

C + and −

D × and ÷

Answer: A

Explanation:

$$35 + 7 - 5 \times 2 \div 25 = 20$$

After interchanging + and ÷

$$35 \div 7 - 5 \times 2 + 25 = 20$$

$$5 - 10 + 25 = 20$$

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Question 23

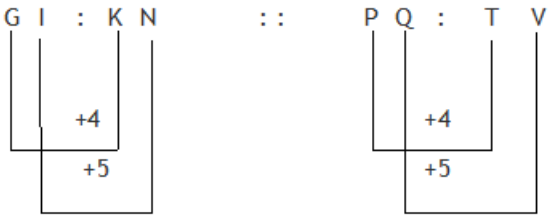
Select the option that is related to the third letter-pair in the same way as the second letter-pair is related to the first letter-pair.

GI : KN :: PQ : ?

- A VT
- B TX
- C TV
- D UV

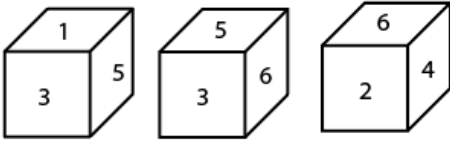
Answer: C

Explanation:



Question 24

Three different positions of a dice are shown below. Which number appears on the face opposite the number 6 ?



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

Answer: C

Explanation:

From figures (ii) and (iii), we conclude that 5, 4, 3 and 2 lie adjacent to 6. Therefore, 1 must be lie in opposite to 6.

Question 25

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

- A Duster
- B Stationery
- C Chalk
- D Blackboard

Answer: B

Explanation:

Duster, chalk and blackboard are the products comes under stationery so, stationery is different.

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General knowledge

### Instructions

For the following questions answer them individually

#### Question 26

In the context of a word document, the term gutter stands for \_\_\_\_\_.

- A the blank page inserted in between two filled pages
- B the space left on the left side for rough work
- C the space between two paragraphs
- D the space left on one side for stitching and binding

Answer: D

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#### Question 27

\_\_\_\_\_ is the only active volcano in South Asia.

- A Narcondam Island
- B Dhinodhar Hills
- C Barren Island
- D Tosham Hills

Answer: C

#### Question 28

Which of the following cities has recently included Hindi as third official court language?

- A Sharjah
- B Ajman
- C Abu Dhabi
- D Dubai

Answer: C

#### Question 29

In the Interim Budget of 2019, the Union Government launched a minimum assured pension scheme for those working in the unorganised sector, after they attain the age of 60. The scheme has been named as the Pradhan Mantri \_\_\_\_\_.

- A Jeevan Jyoti Bima Yojana
- B Shram Yogi Maan-dhan Yojana
- C Vishwakarma Shram Samman Yojana
- D Suraksha Vima Yojan

Answer: B

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### Question 30

On any issue pertaining to the disqualification of any member of Lok Sabha under 10th Schedule of Indian constitution, the final decision is taken by \_\_\_\_\_.

- A Speaker, Lok Sabha
- B Election Commission of India
- C Vice-President of India
- D President of India

Answer: A

### Question 31

Which of the following is a landlocked country?

- A Turkey
- B Syria
- C Mongolia
- D Eritrea

Answer: C

### Question 32

'Badhti ka naam zindagi' is the tagline of which of the following banks?

- A Corporation
- B Indian
- C Axis
- D Syndicate

Answer: C

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### Question 33

National Viral Hepatitis Control Program (NVHCP) aims to achieve country wide elimination of Hepatitis C by \_\_\_\_\_.

- A 2022
- B 2025
- C 2030
- D 2028

Answer: C

**Question 34**

The IAAF Male Athlete of the Year Award has been won by Usain Bolt \_\_\_\_\_ time(s).

- A five
- B two
- C six
- D one

**Answer: C**

**Question 35**

In 19th century, the Satnami movement in central India was founded by \_\_\_\_\_.

- A Haridas Thakur
- B Keshab Chander Sen
- C Narayan Guru
- D Guru Ghasidas

**Answer: D**

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**Question 36**

\_\_\_\_\_ is one of the liquids commonly used in liquid-in-glass thermometers.

- A Liquid nitrogen
- B Water
- C Alcohol
- D Liquid hydrogen

**Answer: C**

**Question 37**

The famous Kandariya temple is located at:

- A Gangaikondacholapuram
- B Hampi
- C Khajurao
- D Vidisha

**Answer: C**

**Question 38**

Ultrasonic sounds are the sounds which have frequencies?

- A higher than 40 kHz
- B higher than 50 kHz
- C higher than 20 kHz
- D higher than 30 kHz

**Answer: C**

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### Question 39

Which of the following cities hosted the Special Olympics World Games 2019?

- A Istanbul
- B Abu Dhabi
- C Seattle
- D London

**Answer: B**

### Question 40

In the context of agriculture, the term 'barani' refers to \_\_\_\_\_

- A rainfed farming
- B irrigated farming
- C dry farming
- D mixed farming

**Answer: A**

### Question 41

The book 'Target 3 Billion' is written by \_\_\_\_\_.

- A Ram Nath Kovind
- B Pranab Mukherjee
- C Shankar Dayal Sharma
- D A.P.J Abdul Kalam

**Answer: D**

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### Question 42

The book titled 'Every Vote Counts - The Story of India's Elections' was written by \_\_\_\_\_.



- A Navin Chawla
- B SY Qureshi
- C JM Lyngdoh.
- D Hamid Ansari

**Answer: A**

**Question 43**

In the domain names, the expression .au stands for \_\_\_\_\_.

- A Australia
- B Austria
- C Antigua
- D African Union

**Answer: A**

**Question 44**

In the context of the Mughals, which of the following statements is NOT correct?

- A Babur was related to Chenghis Khan from his mother's side.
- B The Mughal court chronicles describe them as the descendents of a legendary Iranian king Afrasiyab.
- C Babur was pushed out of his homeland Farghana by Uzbeks.
- D They were the descendants of Taimur on the paternal side.

**Answer: B**

## SSC CHSL Free Mock Test

**Question 45**

Which of the following articles of Indian Constitution provides for the appointment of a Finance Commission?

- A Article 280
- B Article 290
- C Article 300
- D Article 320

**Answer: A**

**Question 46**

Pradeep Kumar Banerjee, who bagged the ESPN Multi-Sports Award for Lifetime Achievement, is related to \_\_\_\_\_.

- A football
- B archery

- C hockey
- D shooting

**Answer: A**

**Question 47**

Which of the following cities hosted an international summit which adopted a declaration on digital health?

- A Paris
- B Delhi
- C Dhaka
- D Toronto

**Answer: B**

## SSC CHSL Previous Papers (DOWNLOAD PDF)

**Question 48**

Which of the following regions has earned Geographical Indication for its oranges ?

- A Wayanad
- B Meerut
- C Faizabad
- D Coorg

**Answer: D**

**Question 49**

The lens-type commonly used for correcting presbyopia is .....

- A concave lens
- B convex lens
- C bifocal lens
- D cylindrical lens

**Answer: C**

**Question 50**

As per the Census 2011, which of the following states/union territories claimed second rank in terms of literacy rate?

- A Lakshdweep
- B Goa
- C Mizoram
- D Puducherry

Answer: A

## SSC CGL Previous Papers (DOWNLOAD PDF)

### Quant

#### Instructions

For the following questions answer them individually

#### Question 51

Which among the following numbers is exactly divisible by 11, 13 and 7?

- (a) 624613
- (b) 624624
- (c) 624635
- (d) 624646

A (b)

B (c)

C (a)

D (d)

Answer: A

#### Explanation:

L.C.M of 11, 13 and 7 = 1001

624624 is exactly divisible by 1001. Hence, it will be also exactly divisible by 11, 13 and 7

## SSC CGL Free Mock Test (Latest Pattern)

#### Question 52

By selling an article for ₹144, a shopkeeper loses 28%. What should be the selling price for bringing down the loss to 14%?

A ₹172

B ₹182

C ₹156

D ₹180

Answer: A

#### Explanation:

S.P = Rs 144

Loss = 28%

Let C.P be Rs x

$$\text{So, } x \times \frac{72}{100} = 144$$

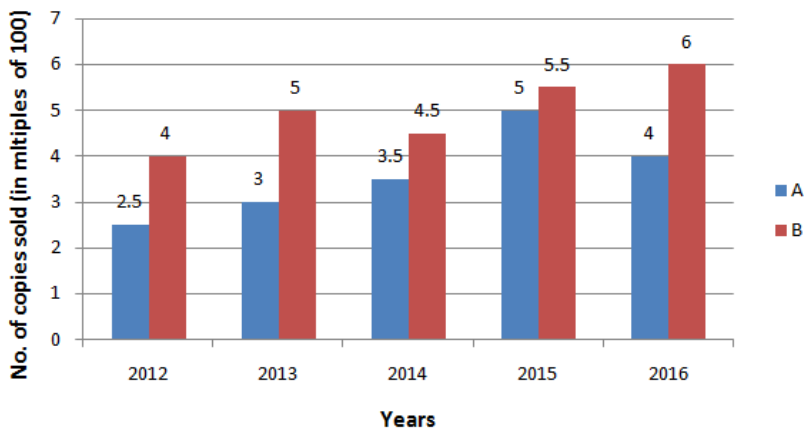
$$x = \text{Rs } 200$$

Now required loss 14% and C.P = Rs 200

$$\text{S.P} = 200 - 200 \times \frac{14}{100} = \text{Rs } 172$$

Question 53

A book has been co-authored by X and Y. The prices of the book in India and abroad are ₹800 and ₹1000 respectively. The royalties earned on sale in India and abroad are 10% and 16% respectively. The royalty amount is distributed among X and in the ratio 5 : 3. The given Bar Graph presents the number of copies of the book sold in India (A) and abroad (B) during 2012-16.



What is the total amount of royalty paid (in ₹) to the authors during the years 2012, 2013 and 2016?

- A 2,73,400
- B 3,16,000
- C 2,72,000
- D 2,71,600

Answer: B

Explanation:

$$\text{Royalties in India in 2012} = 250 \times 800 \times \frac{10}{100} = 20000$$

$$\text{Royalties in Abroad in 2012} = 400 \times 1000 \times \frac{16}{100} = 64000$$

$$\text{Royalties in India in 2013} = 300 \times 800 \times \frac{10}{100} = 24000$$

$$\text{Royalties in Abroad in 2013} = 500 \times 1000 \times \frac{16}{100} = 80000$$

$$\text{Royalties in India in 2016} = 400 \times 800 \times \frac{10}{100} = 32000$$

$$\text{Royalties in Abroad in 2016} = 600 \times 1000 \times \frac{16}{100} = 96000$$

$$\text{Total amount of royalty paid to the authors during the years 2012, 2013 and 2016} = 20000 + 64000 + 24000 + 80000 + 32000 + 96000 = \text{Rs } 316000$$

Question 54

Fill in the blank.

The average of first 101 ..... numbers is equal to 102.

- A even
- B natural
- C perfect square
- D odd

Answer: A

Explanation:

Average of 1st  $x$  even numbers is  $x + 1$ . So, average of 1st 101 even numbers is equal to 102.

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

### Question 55

If  $a + b - c = 12$  and  $a^2 + b^2 + c^2 = 110$ , then which among the following relations is true ?

- (p)  $ab + bc + ca = 34$ ,
- (q)  $ab + bc - ca = 17$ ,
- (r)  $ab - bc + ca = 17$ ,
- (s)  $ab - bc - ca = 17$

A (p)

B (s)

C (r)

D (q)

Answer: B

Explanation:

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

$$12^2 = 110 + 2(ab - bc - ac)$$

$$ab - bc - ca = 17$$

### Question 56

What is the simplified value of  $\frac{\sin^3 21^\circ + \cos^3 19^\circ}{\sin 21^\circ + \cos 19^\circ} + \sin^2 69^\circ + \cos^2 71^\circ + \frac{1}{\sec 69^\circ \operatorname{cosec} 71^\circ}$  is:

A 2

B 1

C 4

D 3

Answer: A

### Question 57

Which among the following is an irrational quantity?

- (a)  $\tan 30^\circ \tan 60^\circ$
- (b)  $\sin 30^\circ$
- (c)  $\tan 45^\circ$
- (d)  $\cos 30^\circ$

A (d)

B (c)

C (b)

D (a)

Answer: A

Explanation:

$$(a) \tan 30^\circ \tan 60^\circ = \frac{1}{\sqrt{3}} \times \sqrt{3} = 1$$

- (b)  $\sin 30^\circ = \frac{1}{2}$   
 (c)  $\tan 45^\circ = 1$   
 (d)  $\cos 30^\circ = \frac{\sqrt{3}}{2}$

Hence, Ans is D

## SSC CHSL Study Material

### Question 58

The price of sugar got raised by 25%. To maintain the same level of expenses on sugar, a person reduced the consumption of sugar by 4% and also increased his expenditure on sugar by  $x\%$ . The value of  $x$  is:

- A 18.75  
 B 21  
 C 20  
 D 19.5

Answer: C

#### Explanation:

Let the person have Rs 100 for sugar and he bought 100 kg sugar in Rs 100.

Now increased price of 100 kg sugar =  $100 \times \frac{125}{100} = 125$

Increased price of 1 kg of sugar =  $\frac{125}{100} = 1.25$

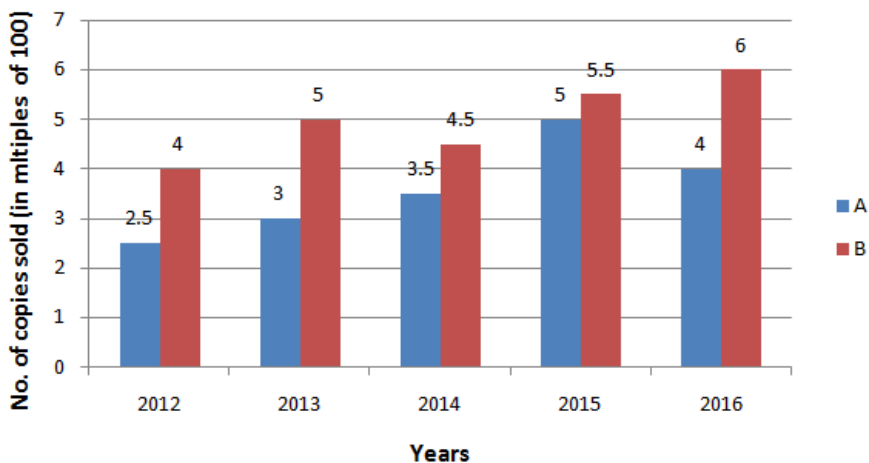
Now he have reduced his consumption by 4% so he will purchase = 96 kg of sugar

For 96 kg of sugar he will pay =  $96 \times 1.25 = \text{Rs}120$

So, he have to increase his expenditure by 20%.

### Question 59

A book has been co-authored by X and Y. The prices of the book in India and abroad are ₹800 and ₹1000 respectively. The royalties earned on sale in India and abroad are 10% and 16% respectively. The royalty amount is distributed among X and Y in the ratio 5 : 3. The given Bar Graph presents the number of copies of the book sold in India (A) and abroad (B) during 2012-16.



What is the difference between the royalties earned by X and Y (in ₹) during the years 2014 and 2015 taken together?

- A 41,250  
 B 57,550  
 C 57,000

D 41,340

Answer: C

Explanation:

$$\text{Royalties in India in 2014} = 800 \times 350 \times \frac{10}{100} = 28000$$

$$\text{Royalties of X in India in 2014} = 28000 \times \frac{5}{8} = 17500$$

$$\text{Royalties of Y in India in 2014} = 28000 \times \frac{3}{8} = 10500$$

$$\text{Royalties of X in Abroad in 2014} = 1000 \times 450 \times \frac{16}{100} = 72000$$

$$\text{Royalties of X in Abroad in 2014} = 72000 \times \frac{5}{8} = 45000$$

$$\text{Royalties of Y in Abroad in 2014} = 72000 \times \frac{3}{8} = 27000$$

$$\text{Royalties in India in 2015} = 800 \times 500 \times \frac{10}{100} = 70000$$

$$\text{Royalties of X in India in 2015} = 70000 \times \frac{5}{8} = 43750$$

$$\text{Royalties of Y in India in 2015} = 70000 \times \frac{3}{8} = 26250$$

$$\text{Royalties in Abroad in 2015} = 1000 \times 550 \times \frac{16}{100} = 88000$$

$$\text{Royalties of X in Abroad in 2015} = 88000 \times \frac{5}{8} = 55000$$

$$\text{Royalties of Y in Abroad in 2015} = 88000 \times \frac{3}{8} = 33000$$

$$\text{Total royalties earned by X} = 17500 + 45000 + 43750 + 55000 = 142500$$

$$\text{Total royalties earned by Y} = 10500 + 27000 + 26250 + 33000 = 85500$$

$$\text{Required difference} = 142500 - 85500 = 57000$$

Question 60

If 40 men working 12 hours a day can complete a work in 8 days, then how many men working 4 hours a day can complete the same work in 16 days?

A 50

B 60

C 54

D 45

Answer: B

Explanation:

$$M_1 \times D_1 \times H_1 = M_2 \times D_2 \times H_2$$

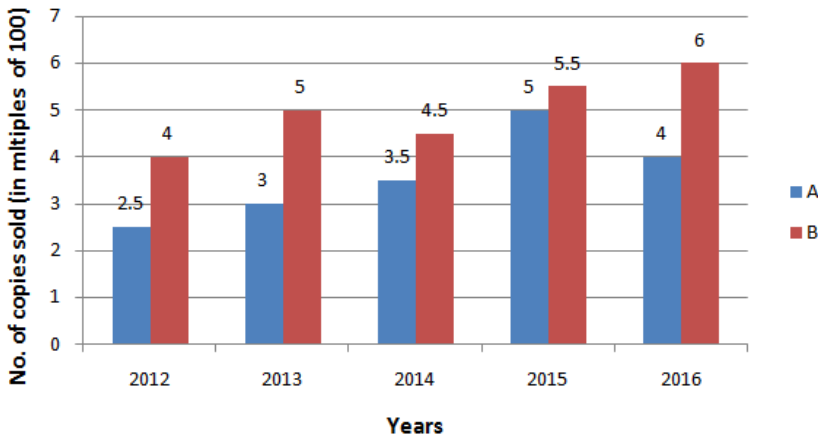
$$40 \times 8 \times 12 = M_2 \times 16 \times 4$$

$$M_2 = 60$$

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Question 61

A book has been co-authored by X and Y. The prices of the book in India and abroad are ₹800 and ₹1000 respectively. The royalties earned on sale in India and abroad are 10% and 16% respectively. The royalty amount is distributed among X and in the ratio 5 : 3. The given Bar Graph presents the number of copies of the book sold in India (A) and abroad (B) during 2012-16.



What is the total number of the copies of the book sold in India during 2012-2015?

- A 2000
- B 1400
- C 1600
- D 1800

Answer: B

Explanation:

Number of book sold in India during 2012 to 2015 = 250 + 300 + 350 + 500 = 1400

Question 62

It is given that the area of a triangle is A. The values of its perimeter, in radius, circumradius and the average of the lengths of the medians are respectively, p, r, R and d. The ratio A : p is equal to:

- A  $r : 1$
- B  $(R+r)^2 : d$
- C  $r : 2$
- D  $(R - r)^2 : r$

Answer: C

Question 63

A shopkeeper normally allows a discount of 10% on the marked price of each article. During a sale season, he decides to give two more discounts, the first being at a rate of 50% of the original and the second at a rate of 40% of the first. What is the percentage rate of the equivalent single discount (correct up to two decimal places)?

- A 11.25
- B 13.27
- C 14.85
- D 16.21



Answer: D

**Explanation:**

Let the marked price be Rs 100

Discount = 10%

S.P = 90

Again he decides to give two more discount.

1st discount = 50% of 10 = 5% and 2nd discount = 40% of 5 = 2%

$$S.P = 90 \times \frac{95}{100} \times \frac{98}{100} = 83.79$$

So, percentage rate of the equivalent single discount =  $100 - 83.79 = 16.21\%$

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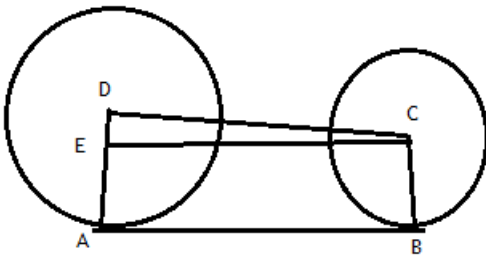
**Question 64**

Two circles of diameters 2 cm and 5.6 cm are such that the distance between their centres is 8.2 cm. What is the length of a common tangent to the circles that does not intersect the line joining the centres?

- A 8.4 cm
- B 6.4 cm
- C 7.2cm
- D 8 cm

Answer: D

**Explanation:**



AB is a common tangent

Construct EC parallel to AB

Now Triangle EDC is a right angled triangle in which  $DC = 8.2$  cm and  $ED = AD - BC = 2.8 - 1 = 1.8$  cm (BC=AE)

$$EC = \sqrt{(DC)^2 - (DE)^2} = \sqrt{8.2^2 - 1.8^2} = \sqrt{64} = 8 \text{ cm}$$

So, length of common tangent will be equal to  $EC = 8$  cm.

**Question 65**

Equilateral triangles are drawn on the hypotenuse and one of the perpendicular sides of a right-angled isosceles triangles. Their areas are H and A respectively.  $\frac{A}{H}$  is equal to:

- A  $\frac{1}{4}$
- B  $\frac{1}{\sqrt{2}}$
- C  $\frac{1}{\sqrt{2}}$

D  $\frac{1}{2}$

Answer: D

Explanation:

Let the length of the two equal sides of right-angled isosceles triangle be  $x$  cm then hypotenuse be  $x\sqrt{2}$  cm

$$\text{Area of equilateral triangle drawn on hypotenuse (H)} = \frac{\sqrt{3}}{4} \times a^2 = \frac{\sqrt{3}}{4} \times (x\sqrt{2})^2$$

$$\text{Area of equilateral triangle drawn on side (A)} = \frac{\sqrt{3}}{4} \times a^2 = \frac{\sqrt{3}}{4} \times x^2$$

$$\frac{A}{H} = \left( \frac{\sqrt{3}}{4} \times x^2 \right) \times \frac{4}{\sqrt{3}} \times \frac{1}{(x\sqrt{2})^2} = \frac{1}{2}$$

Question 66

ABCDEFGH is a regular octagon inscribed in a circle with centre at O. The ratio of  $\angle OAB$  to  $\angle AOB$  is equal to:

A 3 : 1

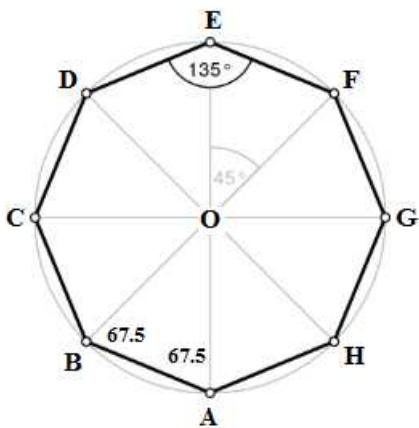
B 3 : 2

C 4 : 3

D 8 : 3

Answer: B

Explanation:



ABCDEFGH is a regular octagon. So  $AB=BC=\dots=HA$

There are 8 equal angles AOB, BOC and so on formed, and  $\angle AOB = \frac{360}{8} = 45$  degree

So in triangle AOB, sum of angles OAB and OBA is  $(180-45)=135$  deg

Since side  $OA=OB$

$$\text{Angle OAB} = \text{Angle OBA} = \frac{135}{2} = 67.5^\circ$$

$$\text{Angle AOB} = 45^\circ$$

$$\text{Required ratio} = 67.5 : 45 = 3 : 2.$$

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Question 67

$\theta$  being an acute angle, it is given that  $\sec^2 \theta + 4 \tan^2 \theta = 6$ . What is the value of  $\theta$ ?

A  $60^\circ$

B  $45^\circ$

C  $0^\circ$

D  $30^\circ$

**Answer: B**

**Explanation:**

$$\sec^2 \theta + 4 \tan^2 \theta = 6$$

$$(1 + \tan^2 \theta) + 4 \tan^2 \theta = 6$$

$$5 \tan^2 \theta = 5$$

$$\tan^2 \theta = 1$$

$$\tan \theta = 1$$

$$\tan \theta = 45^\circ$$

$$\theta = 45^\circ$$

**Question 68**

A borrows a sum of ₹2,000 from his friend B on 31 December 2011 on the condition that he will return the same after one year with simple interest at 8% per annum. However, A gets into a position of returning the money on 1 July 2012. How much amount he has to return to B?

A ₹2,088

B ₹2,200

C ₹2,070

D ₹2,080

**Answer: D**

**Explanation:**

P = Rs 1200, T = 6 months, R = 8%

$$S.I = \frac{P \times T \times R}{100}$$

$$S.I = \frac{2000 \times 6 \times 8}{100 \times 12} = \text{Rs } 80$$

Amount he has to return to B = 2000 + 80 = Rs 2080

**Question 69**

If  $a + \frac{1}{a} = 3$ , then the value of  $(a^6 + \frac{1}{a^6})$  is equal to:

A 319

B 322

C 780

D 730

**Answer: B**

**Explanation:**

$$a + \frac{1}{a} = 3,$$

Cubing both side,

$$(a + \frac{1}{a})^3 = 3^3$$

$$(a^3 + \frac{1}{a^3}) + 9 = 27$$

$$a^3 + \frac{1}{a^3} = 27 - 9 = 18$$

Again squaring both side,

$$(a^3 + \frac{1}{a^3})^2 = 18^2$$

$$(a^6 + \frac{1}{a^6}) + 2 = 324$$

$$(a^6 + \frac{1}{a^6}) = 324 - 2 = 322$$

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### Question 70

If,  $a^{\frac{1}{3}} + b^{\frac{1}{3}} + c^{\frac{1}{3}} = 0$ , then  $(a + b + c)^6$  is equal to:

A  $729 a^2 b^2 c^2$

B  $729 abc$

C  $81 abc$

D  $81 a^2 b^2 c^2$

Answer: A

### Question 71

₹ 10,000/- has to be distributed among 3 craftsmen, 5 helpers and 6 labourers such that each helper receives the amount twice as much as a labourer receives and each craftsman receives the amount thrice as much as a labourer receives. What is the amount received by the three craftsmen?

A ₹4,000

B ₹2,400

C ₹2,700

D ₹3,600

Answer: D

### Explanation:

Let the labour receives = Rs x

So, helper receives = Rs 2x

And craftsmen receives = Rs 3x

Ratio of 6 Labour : 5 Helper : 3 Craftsmen = 6 : 10 : 9

Amount receives by 3 craftsmen =  $10000 \times \frac{9}{25} = \text{Rs } 3600$

### Question 72

Given that the lengths of the paths of a ball thrown with different speeds by two boys are the same, if they take 0.6 seconds and 1 second respectively to cover the said length, what is the average speed of travel for the first throw, if the same for the second is 96 km/h?

A 160 km/h

- B 200 km/h
- C 150 km/h
- D 100 km/h

Answer: A

**Explanation:**

$$\text{Length} = \text{Speed} \times \text{time}$$

Given length is same,

$$S_1 \times T_1 = S_2 \times T_2$$

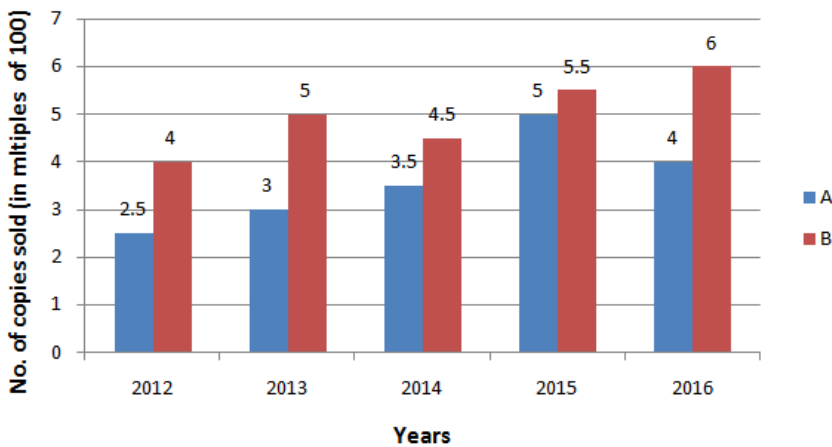
$$S_1 \times \frac{6}{36000} = 96 \times \frac{1}{3600}$$

$$S_1 = 16 \times 10 = 160 \text{ km/h}$$

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**Question 73**

A book has been co-authored by X and Y. The prices of the book in India and abroad are ₹800 and ₹1000 respectively. The royalties earned on sale in India and abroad are 10% and 16% respectively. The royalty amount is distributed among X and in the ratio 5 : 3. The given Bar Graph presents the number of copies of the book sold in India (A) and abroad (B) during 2012-16.



What is the ratio of royalties earned in the following cases – By X for sale of books in India in 2013 and 2014 and By Y for sale of books abroad in 2015 and 2016 ?

- A 65 : 138
- B 63 : 130
- C 64 : 135
- D 62 : 117

Answer: A

**Explanation:**

$$\text{Royalties earned in India} = 800 \times \frac{10}{100} = \text{Rs } 80$$

$$\text{Royalties of x} = 80 \times \frac{5}{8} = \text{Rs } 50$$

$$\text{Royalties in 2013} = 50 \times 3 = \text{RS } 150$$

$$\text{Royalties in 2014} = 50 \times 3.5 = \text{Rs } 175$$

$$\text{Royalties earned in Abroad} = 1000 \times \frac{16}{100} = \text{Rs } 160$$

$$\text{Royalties of } x = 160 \times \frac{3}{8} = \text{Rs } 60$$

$$\text{Royalties in 2015} = 60 \times 5.5 = \text{Rs } 330$$

$$\text{Royalties in 2016} = 60 \times 6 = \text{Rs } 360$$

$$\text{Required ratio} = (150+175) : (330+360) = 325 : 690 = 65 : 138$$

#### Question 74

Twelve sticks, each of length 1 unit, are used to form a right-angled triangle. The area of the triangle is:

- A 8 sq units
- B 10 sq units
- C 6 sq units
- D 4 sq units

Answer: C

#### Explanation:

12 sticks are used of 1 unit means the perimeter of right angled triangle will be 12 cm

And also if the triangle is right angled then pythagoras theorem will satisfy.

So, pythagoras triplet 3,4,5 will satisfy the condition

$$\text{Area} = \frac{1}{2} \times 3 \times 4 = 6$$

#### Question 75

The simplified value of  $\frac{1}{2}$  of  $\frac{8}{5} \div \left\{ 2\frac{1}{5} - \left( \frac{5}{16} + \frac{3}{5} \times 1\frac{7}{8} \div \frac{2}{3} \right) \right\}$  is:

- A 4
- B  $\frac{1}{5}$
- C  $\frac{2}{5}$
- D 1

Answer: A

#### Explanation:

$$\frac{1}{2} \text{ of } \frac{8}{5} \div \left\{ 2\frac{1}{5} - \left( \frac{5}{16} + \frac{3}{5} \times 1\frac{7}{8} \div \frac{2}{3} \right) \right\}$$

$$\frac{1}{2} \text{ of } \frac{8}{5} \div \left\{ \frac{11}{5} - \left( \frac{5}{16} + \frac{3}{5} \times \frac{15}{8} \times \frac{3}{2} \right) \right\}$$

$$\frac{1}{2} \text{ of } \frac{8}{5} \div \left\{ \frac{11}{5} - \left( \frac{5}{16} + \frac{27}{16} \right) \right\}$$

$$\frac{1}{2} \text{ of } \frac{8}{5} \div \left\{ \frac{11}{5} - 2 \right\}$$

$$\frac{1}{2} \times \frac{8}{5} \times 5 = 4$$

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English

#### Instructions

For the following questions answer them individually

**Question 76**

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

"I'm afraid I must left now," said the guest after the inaugural function was over.

- A I'm afraid I has to be leaving now
- B I'm afraid I must leave now
- C I'm afraid I can left now
- D No improvement

**Answer: B**

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**Question 77**

Select the most appropriate synonym of the given word.

**RECAPITULATION**

- A summary
- B readiness
- C prominence
- D movement

**Answer: A**

**Question 78**

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

**Able to adapt to many different functions or activities**

- A deputy
- B expert
- C versatile
- D surrogate

**Answer: C**

**Question 79**

Select the most appropriate word to fill in the blank

The Board of Directors of the pharma company has approved the \_\_\_\_\_ of investment limits in its wholly- owned subsidiary.

- A enforcement
- B enhancement
- C enchantment
- D entrenchment

**Answer: B**

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### Question 80

Select the most appropriate meaning of the given idiom  
**put your best foot forward**

- A take care to dress well
- B try as hard as one can
- C walk very cautiously
- D check every step

**Answer: B**

### Question 81

Identify the segment in the sentence which contains the grammatical error.  
**Deepak said he would pack few things he had and vacate the hostel room the next day.**

- A pack few things he had
- B the next day
- C and vacate the hostel room
- D Deepak said he would pack

**Answer: A**

### Question 82

Select the most appropriate synonym of the given word.  
**RADIANCE**

- A sparkle
- B dryness
- C redness
- D depth

**Answer: A**

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### Instructions

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

### Question 83

- A. As man's intelligence grew so did his power.
- B. This intelligence made him cleverer and stronger than enormous animals which would otherwise have destroyed him.
- C. The chief difference between man and the other animals was the intelligence of man.
- D. Combining intelligence with power, man developed weapons to fight his enemies.



- A CBAD
- B ACDB
- C BCDA
- D DABC

Answer: A

**Question 84**

- A. Today, he is popular for creating scaled-down models of automobiles that are not just showpieces but are working toys.
- B. "I used to ride it during playtime in the evenings as a five-year old," recalls Arun Kumar.
- C. As a kid I used to pester my parents for toy cars but my carpenter father often couldn't afford them.
- D. Then, one day he got an old tricycle from the junkyard, made three wooden wheels and fitted them to the cycle.

- A BCDA
- B CDBA
- C CADB
- D ACDB

Answer: B

**Instructions**

For the following questions answer them individually

**Question 85**

Select the correct indirect form of the given sentence.  
"Don't park here," the policeman said to them.

- A The policeman said to them not to park here.
- B The policeman ordered them not to park there.
- C Don't park here he said to the policeman.
- D The policeman ordered them not to park here.

Answer: B

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**Question 86**

Select the most appropriate word to fill in the blank  
The \_\_\_\_\_ of ancient scientists often made up for the lack of proper equipment.

- A anxiety
- B creation
- C concern
- D dedication

Answer: D

**Question 87**

**Select the correct passive form of the given sentence.  
His mother gave him a note for his teacher.**

- A He was given a note for his teacher by his mother.
- B He is given a note for his teacher by his mother.
- C He had been given a note for his teacher by his mother.
- D His teacher was given a note for his mother.

**Answer: A**

**Question 88**

**Select the most appropriate meaning of the given idiom  
at snail's pace**

- A do something very carefully
- B keep your moves secret
- C be very persistent
- D do something very slowly

**Answer: D**

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**Question 89**

**Identify the segment in the sentence which contains the grammatical error.  
Even Sharat tried his best, he could not clear all the examination papers in one attempt.**

- A Even Sharat tried his best
- B all the examination papers
- C he could not clear
- D in one attempt

**Answer: A**

**Question 90**

**Select the most appropriate word for the given group of words.  
A person or thing that has the same name as another**

- A relative
- B namesake
- C pseudonym
- D successor

**Answer: B**

**Question 91**

Select the wrongly spelt word.

- A horizontal
- B fomentation
- C bureaucracy
- D plateau

Answer: C

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**Question 92**

Select the most appropriate antonym of the given word.

**RANDOM**

- A specific
- B formal
- C irregular
- D casual

Answer: A

**Question 93**

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**.

Durga is now the Executive Vice- President of the company with a responsibility to marketing for the entire northern zone.

- A with the responsibility of marketing
- B No improvement
- C with a responsibility by marketing
- D with responsibility from marketing

Answer: A

**Question 94**

Select the correctly spelt word.

- A comemorate
- B commemorate
- C commemorate
- D commemorete

Answer: B

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### Question 95

Select the most appropriate antonym of the given word.  
SHALLOW

- A narrow
- B crooked
- C deep
- D slight

Answer: C

### 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:

The pattern of birds flocking to Pakhal lake has been observed over several years. So far, (1) \_\_\_\_\_ than 190 bird species (2) \_\_\_\_\_ been identified and this is one of the best (3) \_\_\_\_\_ in the state for bird-watchers to (4) \_\_\_\_\_. In fact, we can spot (5) \_\_\_\_\_ 80 species of birds in a single day.

### Question 96

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

- A many
- B most
- C more
- D much

Answer: C

### Question 97

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

- A is
- B has
- C have
- D are

Answer: C

## SSC CHSL Study Material

### Question 98

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

- A places

- B place
- C sanctuary
- D lake

Answer: A

**Question 99**

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

- A visit
- B visiting
- C visits
- D visited

Answer: A

**Question 100**

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

- A near
- B between
- C around
- D any

Answer: C

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