



## SSC CHSL 12th October 2020 Shift-3

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## English Language (Basic Knowledge)

### Instructions

For the following questions answer them individually

### Question 1

Select the most appropriate meaning of the given idiom.

**Couch Potato**

- A Lazy person
- B Overweight
- C Skinny
- D Hyperactive

**Answer: A**

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### Question 2

Select the most appropriate meaning of the given idiom.

**A dime a dozen**

- A Phenomenal
- B Expensive
- C Very common
- D Uncommon

**Answer: C**

### Question 3

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**.

As much as a hundred children gathered to celebrate Independence Day.

- A As many as
- B As long as
- C No improvement
- D As high as

**Answer: A**

### Question 4

Select the most appropriate word to fill in the blank.

For thousands of years, humans have been \_\_\_\_\_ the earth, making scars upon the land.

- A distracting
- B remaking

C redecorating

D damaging

Answer: D

## SSC CHSL Free Mock Test

### 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:

We do not want to condemn the 'word'. It is, after all, a mighty instrument; it is the means by (1)\_\_\_\_\_ we tell each other of our emotions, the way in which we influence others. Words can do (2)\_\_\_\_\_ good but also cause terrible injuries. It is true that at first there was the deed; the word came later. It was in some respects a cultural progress (3)\_\_\_\_\_ the deed became word. But the word was (4)\_\_\_\_\_ a spell, a magical act, and it (5)\_\_\_\_\_ much of its power.

### Question 5

Select the most appropriate option for blank No. 1.

A which

B whose

C that

D what

Answer: A

### Question 6

Select the most appropriate option for blank No. 2.

A immeasurable

B countable

C numerable

D miserable

Answer: A

### Question 7

Select the most appropriate option for blank No. 3.

A such

B which

C when

D however

Answer: C

## SSC CHSL Previous Papers (DOWNLOAD PDF)

### Question 8

Select the most appropriate option for blank No. 4.

- A originally
- B quickly
- C firstly
- D lastly

Answer: A

### Question 9

Select the most appropriate option for blank No. 5.

- A has retained
- B will retained
- C have retained
- D retained

Answer: A

### Instructions

For the following questions answer them individually

### Question 10

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

- A. At the metro station he noticed a homeless man.
- B. He decided to travel to office by the metro train.
- C. He sent his damaged car to the garage for repairs.
- D. Johnny had a car accident.

- A DCBA
- B DACB
- C DBCA
- D DBAC

Answer: A

## SSC CGL Previous Papers (DOWNLOAD PDF)

### Question 11

Select the most appropriate synonym of the given word.

**Insidious**

- A Sincere
- B Callous

C Benevolent

D Crafty

Answer: D

**Question 12**

Select the correct indirect form of the given sentence.  
Vishnu said, "I am going to the theater this evening."

A Vishnu said that I am going to the theater this evening.

B Vishnu said that he would go to the theater that evening.

C Vishnu said that he was going to the theater this evening.

D Vishnu said that he was going to the theater that evening.

Answer: D

**Question 13**

Select the correct passive form of the given sentence.  
The mechanic repaired my bike.

A The bike was being repaired by my mechanic.

B My bike has been repaired by the mechanic

C The bike is repaired by my mechanic.

D My bike was repaired by the mechanic.

Answer: D

**SSC CGL Free Mock Test (Latest Pattern)**

**Question 14**

Select the word which means the same as the group of words given.  
Steal or misappropriate money

A Manipulate

B Embezzle

C Overcharge

D Raid

Answer: B

**Question 15**

Select the most appropriate antonym of the given word.  
Disillusioned

A Soured

B Disappointed

C Enthusiastic

D Embittered

Answer: C

**Question 16**

Select the most appropriate antonym of the given word.

**Timid**

A Bold

B Sincere

C Dubious

D Punctual

Answer: A

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

**Question 17**

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**.

So much as you behave like this, the decision of the management against you cannot be revoked.

A No improvement

B As much to

C As long to

D As long as

Answer: D

**Question 18**

Select the wrongly spelt word.

A Fixation

B Consequence

C Providance

D Musician

Answer: C

**Question 19**

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

Our twenty-first century society expects all relevant information to simply be handing to us.

A Our twenty-first century society

B expects all relevant information

C handing to us.

D to simply be

**Answer: C**

## SSC CHSL Study Material

### Question 20

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

Combine to form a whole

A Integrate

B Disjoin

C Create

D Scatter

**Answer: A**

### Question 21

Select the wrongly spelt word.

A Mimic

B Respectfull

C Subtle

D Esteem

**Answer: B**

### Question 22

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

Behavior modification techniques are often used to the training of police dogs.

A Behavior modification techniques

B of police dogs

C are often used

D to the training

**Answer: D**

## SSC CHSL Free App

### Question 23

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

A. A boy tended his master's dogs near a pond.

B. However, he realized that the way he talked to them never made them happy.

C. Soon he found the tending and his life there very boring.

D. All he could do to kill the boredom was by talking to the dogs.

- A ABCD
- B ACDB
- C ADBC
- D DCAB

Answer: B

**Question 24**

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

- A Inattentive
- B Untiring
- C Weary
- D Lethargic

Answer: B

**Question 25**

Select the most appropriate word to fill in the blank.  
There should be \_\_\_\_\_ punishment for rule breakers.

- A severe
- B much
- C many
- D too

Answer: A

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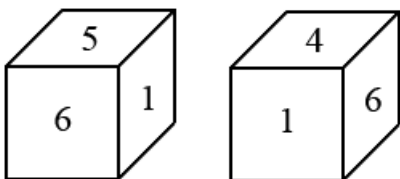
### General Intelligence

**Instructions**

For the following questions answer them individually

**Question 26**

Two different positions of the same dice are shown. Select the number that will be on the face opposite to the one having '2', if the number on the face opposite to '3' is odd.



- A 5
- B 1



C 6

D 3

Answer: C

**Explanation:**

From the first position of dice, 1 and 6 is not opposite to 5

From the second position of dice, 1 and 6 is not opposite to 4

⇒ 1 and 6 is opposite to 2 and 3

Given, the number on the face opposite to '3' is odd

⇒ 1 is opposite to 3 and 6 is opposite to 2

Hence, the correct answer is Option C

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**Question 27**

Select the combination of letters that when sequentially placed in the blanks of the given letter series will complete the series.

ab\_\_bca\_\_acb\_\_aac\_\_

A aacbacbbc

B cbaabcabca

C aabcabccab

D cabaabcabc

Answer: A

**Explanation:**

By Trial and Error method,

Option A

abaacbc | abaabc | abaabc

The above letters form a series.

Hence, the correct answer is Option A

**Question 28**

Arvind gives half of his monthly salary to his wife for household expenses. He spends ₹2,500 on his personal expenses. The saving he manages per month is  $\frac{3}{7}$  of his monthly salary. What is Arvind's per month salary?

A ₹28,000

B ₹25,000

C ₹30,000

D ₹35,000

Answer: D

**Explanation:**

Let the monthly salary of Arvind = a

According to the problem,

Total expenses of Arvind =  $\frac{a}{2} + 2500$

Savings of Arvind =  $\frac{3}{7}$  of monthly salary

$$\Rightarrow \frac{3}{7}a = a - \left(\frac{a}{2} + 2500\right)$$

$$\Rightarrow \frac{3}{7}a = a - \frac{a}{2} - 2500$$

$$\Rightarrow \frac{3}{7}a = \frac{a}{2} - 2500$$

$$\Rightarrow \frac{a}{2} - \frac{3}{7}a = 2500$$

$$\Rightarrow \frac{7a - 6a}{14} = 2500$$

$$\Rightarrow a = 2500 \times 14$$

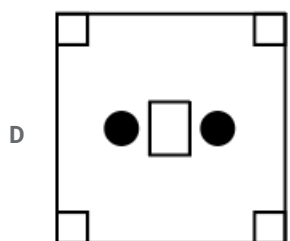
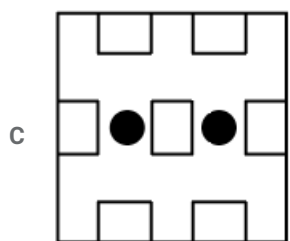
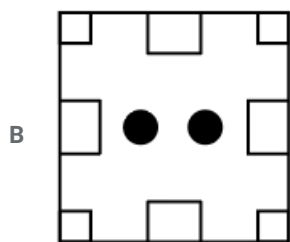
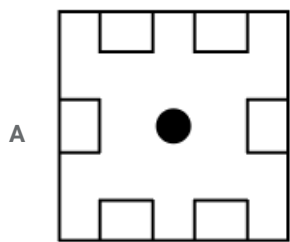
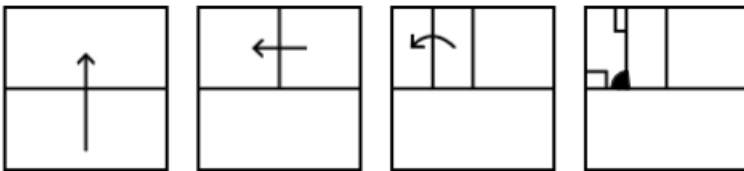
$$\Rightarrow a = 35000$$

$\therefore$  Arvind's monthly salary = ₹35,000

Hence, the correct answer is Option D

### Question 29

The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?



Answer: C

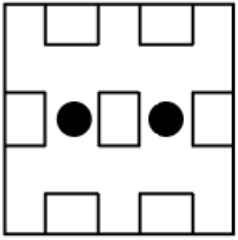
**Explanation:**

When the paper is unfolded first to the right, a semicircle will appear at the bottom side and a rectangle will form at the top side.

When the paper is unfolded second time to the right, a semicircle will appear at the bottom side, a rectangle will appear at the top side of the right part and rectangular will appear at the centre.

When the paper is unfolded again to the bottom, a rectangle will appear at the centre with two circles adjacent to it.

∴ When the paper is unfolded it will appear as shown below



Hence, the correct answer is Option C

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**Question 30**

'Pythagoras' is related to 'Geometry' in the same way as 'Kepler' is related to '.....'

- A Optics
- B Astronomy
- C Electronics
- D Geography

**Answer: B**

**Explanation:**

Kepler's laws are related to planetary motion which is used in astronomy.

∴ Kepler is related to astronomy in the same way Pythagoras is related to Geometry

Hence, the correct answer is Option B

**Question 31**

While traveling by bus, a man spent ₹60 more than 10 times the fare he paid for an auto rickshaw. The total amount spent by him is 13 times the fare he paid for an auto rickshaw. What total amount of money was spent on Bus as well as Auto rickshaw by the man?

- A ₹ 60
- B ₹ 30
- C ₹ 390
- D ₹ 570

**Answer: C**

**Explanation:**

Let the fare paid for the auto rickshaw = a

According to the problem,

Fare paid for the bus =  $10a + 60$

Total amount spent by man =  $13a$

$$\Rightarrow 10a + 60 + a = 13a$$

$$\Rightarrow 11a + 60 = 13a$$

$$\Rightarrow 2a = 60$$

$$\Rightarrow a = 30$$

$\therefore$  Total amount spent by man =  $13a = 13 \times 30 = ₹ 390$

Hence, the correct answer is Option C

### Question 32

Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

1. Few boys play hockey.
2. Few girls don't play badminton.
3. Everyone plays either hockey or badminton.

Conclusions:

- I. Boys don't play badminton.
- II. Few girls play hockey.
- III. No one plays both hockey and badminton.

A Only conclusion II follows.

B Only conclusions II and III follow.

C Only conclusion I follows.

D Only conclusion III follows.

Answer: B

Explanation:

I. Boys don't play badminton

Few boys play hockey so there will be some boys who don't play hockey and the boys who don't play hockey will play badminton as everyone will play either hockey or badminton. Hence conclusion I do not follow.

II. Few girls play hockey

Few girls don't play badminton so these girls will play hockey. Hence conclusion II follows.

III. No one plays both hockey and badminton

Everyone plays either hockey or badminton so no one plays both hockey and badminton. Hence, conclusion III follows.

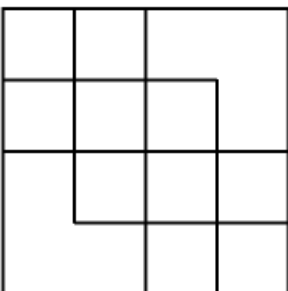
$\therefore$  Only conclusions II and III follow the given statements

Hence, the correct answer is Option B

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### Question 33

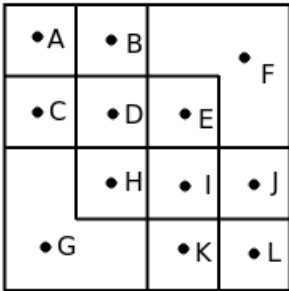
How many squares are present in the following figure?



- A 16
- B 17
- C 18
- D 15

Answer: C

Explanation:



The different squares in the given figure are A, B, C, D, E, H, I, J, K, L, ABCD, EF, HG, IJKL, DEHI, CDEIKG, BDHIJF, ACGKLJFB

∴ Number of squares in the given figure = 18

Hence, the correct answer is Option C

#### Question 34

Four number-pairs have been given, out of which three are alike in some manner and one is different. Select the number-pair that is different from the rest.

- A 120 : 300
- B 28 : 70
- C 320 : 480
- D 16 : 40

Answer: C

Explanation:

$$120 : 300 = 30 \times 4 : 30 \times 10$$

$$28 : 70 = 7 \times 4 : 7 \times 10$$

$$16 : 40 = 4 \times 4 : 4 \times 10$$

$$320 : 480 = 80 \times 4 : 80 \times 6$$

All number-pairs except 320 : 480 are 4th and 6th multiples of a number

∴ 320 : 480 is the odd one among the given number-pairs

Hence, the correct answer is Option C

#### Question 35

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

CLOCK : CNSIS :: WATCH : ?

- A WBWHO
- B WCXIP

C WBVFL

D WCVEJ

**Answer: B**

**Explanation:**

$C + 0 = C$

$L + 2 = N$

$O + 4 = S$

$C + 6 = I$

$K + 8 = S$

Similarly,

$W + 0 = W$

$A + 2 = C$

$T + 4 = X$

$C + 6 = I$

$H + 8 = P$

$\therefore$  WATCH is related to WCXIP in the same way CLOCK is related to CNSIS

Hence, the correct answer is Option B

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**Question 36**

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

**Sahara : Africa**

A Gibson : Europe

B Sandy : America

C Thar : Australia

D Gobi : Asia

**Answer: D**

**Explanation:**

Sahara desert is located in Africa

Gibson and Sandy deserts are located in Australia

Thar desert is located in India

Gobi is located in Asia

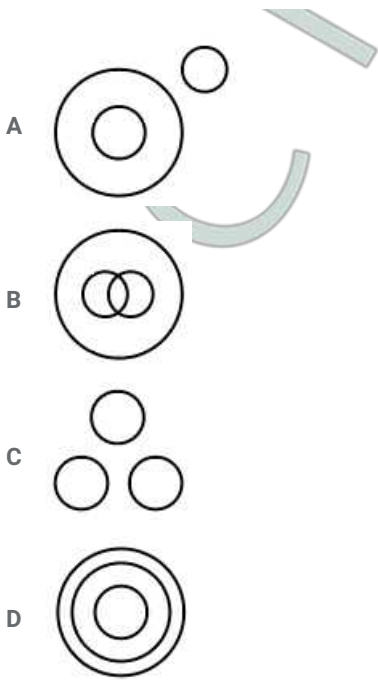
$\therefore$  Gobi is related to Asia in the same way Sahara is related to Africa

Hence, the correct answer is Option D

**Question 37**

Select the Venn diagram that best illustrates the relationship between the following:

**Australia, Sydney, Amsterdam**



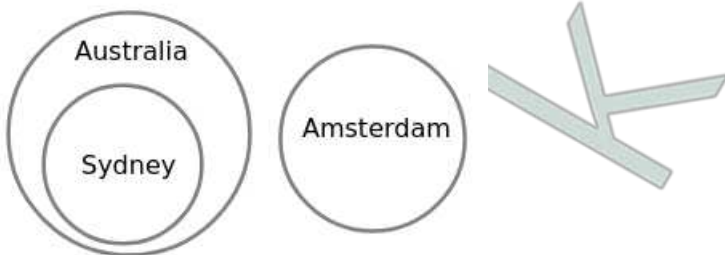
Answer: A

**Explanation:**

Sydney is in Australia

Amsterdam is a different city which is the capital of Netherlands

∴ The Venn diagram that best illustrates the relationship between them is



Hence, the correct answer is Option A

**Question 38**

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

2, 7, 5, 2, 3, 1, ?

A 2

B 0

C 4

D -1

Answer: A

**Explanation:**

The logic for the given series is that a number is equal to the positive difference of previous two numbers as shown below

$$|7 - 2| = |5| = 5$$

$$|5 - 7| = |-2| = 2$$

$$|2 - 5| = |-3| = 3$$

$$|3 - 2| = |1| = 1$$

Similarly, the next number is

$$|1 - 3| = |-2| = 2$$

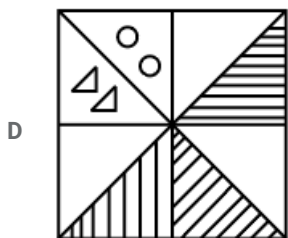
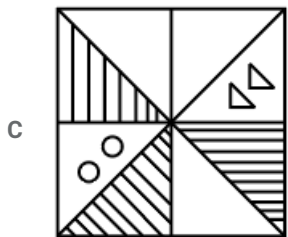
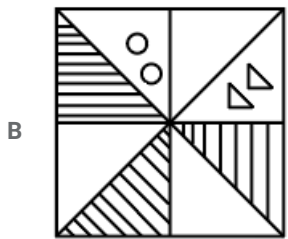
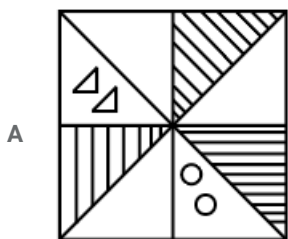
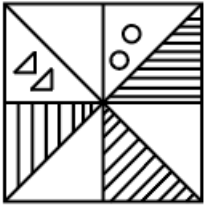
∴ The required number is 2

Hence, the correct answer is Option A

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### Question 39

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



Answer: B

#### Explanation:

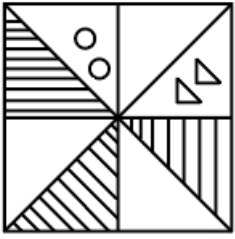
When a mirror is placed on the right side of the figure,

The facing of the figure to the left and right direction changes to opposite direction in mirror image (right facing changes to left and vice versa).

The two circles on the top right square will be on the top left square in the mirror image. The two triangles on the top left square will be on the top right in the mirror image.



∴ The mirror image of the given figure is



Hence, the correct answer is Option B

#### Question 40

Select the option in which the numbers share the same relationship as that shared by the given pair of numbers.  
42 : 18

- A 19 : 5
- B 71 : 45
- C 10 : 9
- D 31 : 29

Answer: C

#### Question 41

In certain code language, TRAIN is written as FHYQL. How will CHEQUE be written as in that language?

- A WRUIEU
- B XSVIJFV
- C OTQCGQ
- D VQTHDT

Answer: A

#### Explanation:

T opposite is G  $\rightarrow G - 1 = F$

R opposite is I  $\rightarrow I - 1 = H$

A opposite is Z  $\rightarrow Z - 1 = Y$

I opposite is R  $\rightarrow R - 1 = Q$

N opposite is M  $\rightarrow M - 1 = L$

The logic here is opposite letter is subtracted by 1

Similarly,

C opposite is X  $\rightarrow X - 1 = W$

H opposite is S  $\rightarrow S - 1 = R$

E opposite is V  $\rightarrow V - 1 = U$

Q opposite is J  $\rightarrow J - 1 = I$

U opposite is F  $\rightarrow F - 1 = E$

E opposite is V  $\rightarrow V - 1 = U$

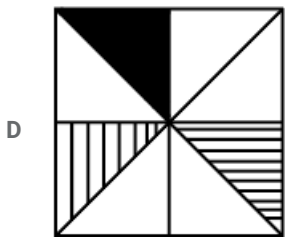
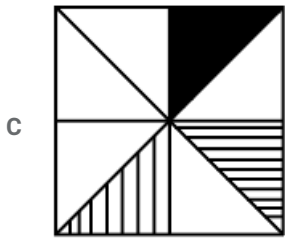
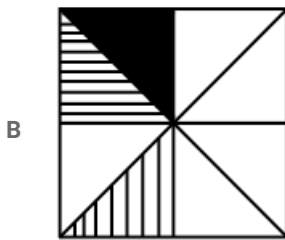
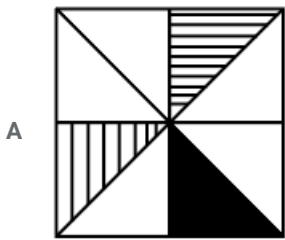
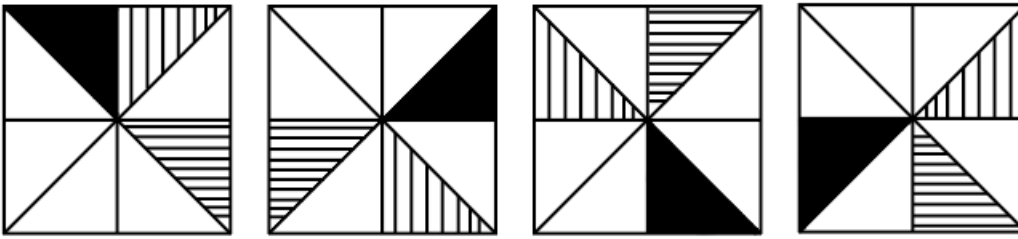
∴ CHEQUE is written as WRUIEU in the code language

Hence, the correct answer is Option A

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### Question 42

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



Answer: B

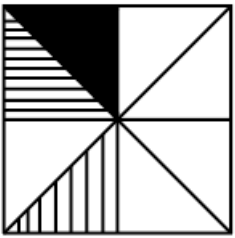
#### Explanation:

The black triangle is moving two places in the clockwise direction.

The horizontal lines triangle is moving three places in the clockwise direction.

The vertical lines triangle is moving three places in the clockwise direction.

∴ The figure that will come next in the following figure series is



Hence, the correct answer is Option B

**Question 43**

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

1, 8, 9, 64, 25, 216, ?

A 256

B 128

C 343

D 49

**Answer: D**

**Explanation:**

1, 8, 9, 64, 25, 216

$1^2, 2^3, 3^2, 4^3, 5^2, 6^3$

$\therefore$  Next number in the series =  $7^2 = 49$

Hence, the correct answer is Option D

**Question 44**

B is the only son of A. C is the mother of D. A is the mother of C. The relation of B with D is:

A Paternal uncle

B Maternal uncle

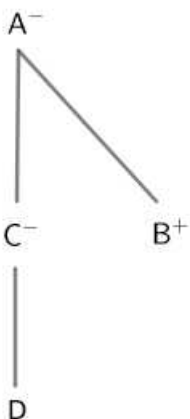
C brother

D father

**Answer: B**

**Explanation:**

According to the problem, the family tree is



$\therefore$  B is the maternal uncle of D

Hence, the correct answer is Option B

## SSC CHSL Free Mock Test

### Question 45

Select the option in which the numbers are related in the same way as are the numbers of the following set.  
(3, 6, 30)

- A (2, 4, 22)
- B (5, 20, 420)
- C (4, 12, 132)
- D (-4, 24, 342)

**Answer:** C

#### **Explanation:**

The logic here is shown below

$$6 = 3 \times 2 = 3 \times (3-1)$$

$$30 = 6 \times 5 = 6 \times (6-1)$$

The logic here is a number is equal to the product of previous number and previous number reduced by 1

Similarly,

$$12 = 4 \times 3 = 4 \times (4-1)$$

$$132 = 12 \times 11 = 12 \times (12-1)$$

∴ (4, 12, 132) is related in the same way as (3, 6, 30) related.

Hence, the correct answer is Option C

### Question 46

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

- A DLP
- B JPZ
- C FHN
- D MQS

**Answer:** D

#### **Explanation:**

The respective numbers of letters of the letter-clusters DLP, JPZ, FHN are even

The respective numbers of letters of MQS are odd

$$M = 13$$

$$Q = 17$$

$$S = 19$$

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

Hence, the correct answer is Option D

### Question 47

In a certain code language, BLINK is coded as 2226 and ALL is coded as 1312. How will EYES be coded as in that language?

A 5448

B 1044

C 3219

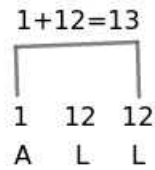
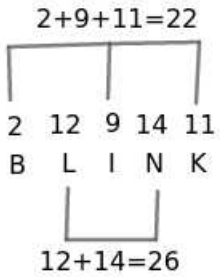
D 6513

**Answer: B**

**Explanation:**

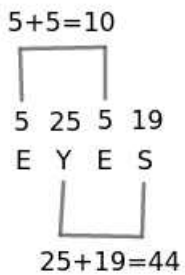
Given, BLINK is coded as 2226 and ALL is coded as 1312

The logic here is shown below



The code is the combination of sum of respective numbers of alternative letters as shown above

Similarly,



∴ EYES is coded as 1044 in the code language

Hence, the correct answer is Option B

## SSC CHSL Previous Papers (DOWNLOAD PDF)

**Question 48**

Which of the following order of numbers will make the below equation correct?

$$36 \times 5 - 18 \div 6 + 2 = 78$$

A  $36 \times 2 - 18 \div 6 + 5$

B  $5 \times 6 - 36 \div 18 + 2$

C  $5 \times 2 - 18 \div 6 + 36$

D  $18 \times 5 - 36 \div 2 + 6$

**Answer: D**

**Explanation:**

By Trail and Error method,

Option A

$$36 \times 2 - 18 \div 6 + 5$$

$$36 \times 2 - 3 + 5$$

$$72 - 3 + 5$$

74

Option B

$$5 \times 6 - 36 \div 18 + 2$$

$$5 \times 6 - 2 + 2$$

$$30 - 2 + 2$$

30

Option C

$$5 \times 2 - 18 \div 6 + 36$$

$$5 \times 2 - 3 + 36$$

$$10 - 3 + 36$$

43

Option D

$$18 \times 5 - 36 \div 2 + 6$$

$$18 \times 5 - 18 + 6$$

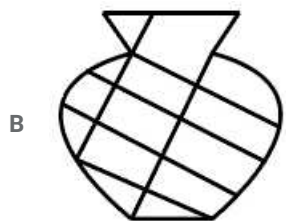
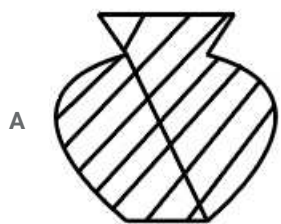
$$90 - 18 + 6$$

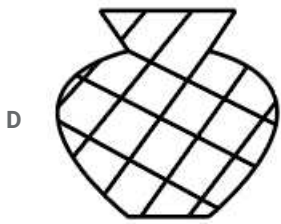
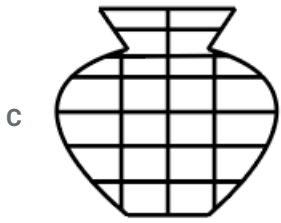
78

Hence, the correct answer is Option D

**Question 49**

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





Answer: D

**Explanation:**

The given figure is embedded in the figure 4 as shown below



Hence, the correct answer is Option D

**Question 50**

Arrange the following words in a logical and meaningful order.

- I. Heptagon
- II. Octagon
- III. Nonagon
- IV. Hexagon

A IV, I, II, III

B III, II, I, IV

C III, II, IV, I

D IV, III, I, II

Answer: A

**Explanation:**

Heptagon will have 7 sides

Octagon will have 8 sides

Nonagon will have 9 sides

Hexagon will have 6 sides

Order of increasing number of sides is Hexagon, Heptagon, Octagon, Nonagon

∴ Logical and meaningful order of given words is IV, I, II, III

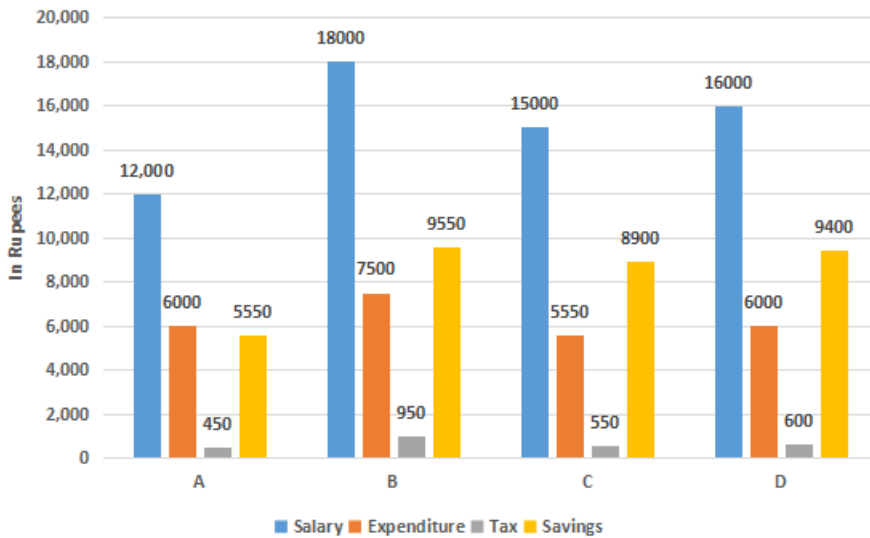
Hence, the correct answer is Option A

## Quantitative Aptitude(Basic Arithmetic Skill)

### Instructions

For the following questions answer them individually

### Question 51



The above graph represents the salary, expenditure, tax and savings (in rupees) per month of the persons A, B, C and D per month. Study the graph and answer the question.

The expenditure as a percentage of salary is the least for:

- A A
- B B
- C D
- D C

Answer: D

### Explanation:

From the graph,

The expenditure as a percentage of salary for A =  $\frac{6000}{12000} \times 100 = 50\%$

The expenditure as a percentage of salary for B =  $\frac{7500}{18000} \times 100 = 41.67\%$

The expenditure as a percentage of salary for C =  $\frac{5550}{15000} \times 100 = 37\%$

The expenditure as a percentage of salary for D =  $\frac{6000}{16000} \times 100 = 37.5\%$

∴ The expenditure as a percentage of salary is least for C

Hence, the correct answer is Option D

## SSC CGL Free Mock Test (Latest Pattern)

### Question 52

The value of  $[0.9 - \{2.3 - 3.2 - (7.1 - 5.4 - 3.5)\}]$  is:

- A 0
- B 2.6
- C 1.8



D 0.18

Answer: A

Explanation:

$$\begin{aligned} & [0.9 - \{2.3 - 3.2 - (7.1 - 5.4 - 3.5)\}] \\ &= [0.9 - \{2.3 - 3.2 - (7.1 - 8.9)\}] \\ &= [0.9 - \{2.3 - 3.2 - (-1.8)\}] \\ &= [0.9 - \{2.3 - 3.2 + 1.8\}] \\ &= [0.9 - \{4.1 - 3.2\}] \\ &= [0.9 - 0.9] \\ &= 0 \end{aligned}$$

Hence, the correct answer is Option A

Question 53

What is the distance between two parallel tangents of a circle of radius 8 cm?

A 16 cm

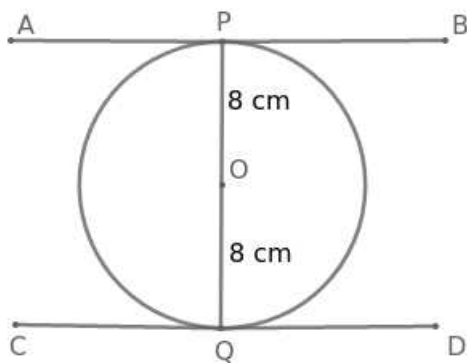
B 8 cm

C 4 cm

D 12 cm

Answer: A

Explanation:



Given, radius of the circle = 8 cm

As shown in the figure,

AB and CD are two parallel tangents of the circle with centre O

OP and OQ are radius of the circle

$\Rightarrow OP = OQ = 8 \text{ cm}$

$\therefore$  Distance between two parallel tangents =  $OP + OQ = 8 + 8 = 16 \text{ cm}$

Hence, the correct answer is Option A

Question 54

What is the radius of the circle whose area is equal to the sum of the areas of two circles whose radii are 15 cm and 8 cm?

A 14 cm

B 13 cm

C 15 cm

D 17 cm

Answer: D

**Explanation:**

Let the radius of the required circle = r

Given,

Area of the required circle is equal to the sum of the areas of two circles whose radii 15 cm and 8 cm.

$$\Rightarrow \pi r^2 = \pi (15)^2 + \pi (8)^2$$

$$\Rightarrow r^2 = 15^2 + 8^2$$

$$\Rightarrow r^2 = 225 + 64$$

$$\Rightarrow r^2 = 289$$

$$\Rightarrow r = 17\text{cm}$$

∴ Radius of required circle = 17 cm

Hence, the correct answer is Option D

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

**Question 55**

If  $2x + y = 6$  and  $xy = 4$ , then find the value of  $8x^3 + y^3$  is:

A 48

B 16

C 72

D 64

Answer: C

**Explanation:**

Given,  $2x + y = 6$  and  $xy = 4$

$$\Rightarrow (2x + y)^3 = 6^3$$

$$\Rightarrow 8x^3 + y^3 + 3 \cdot 2x \cdot y (2x + y) = 216$$

$$\Rightarrow 8x^3 + y^3 + 6xy(2x + y) = 216$$

$$\Rightarrow 8x^3 + y^3 + 6(4)(6) = 216$$

$$\Rightarrow 8x^3 + y^3 + 144 = 216$$

$$\Rightarrow 8x^3 + y^3 = 72$$

Hence, the correct answer is Option C

Question 56



The above graph represents the salary, expenditure, tax and savings (in rupees) details of the persons A, B, C and D per month. Study the graph and answer the question.

The tax as a percentage of salary is highest in case of:

- A B
- B D
- C A
- D C

Answer: A

Explanation:

From the graph,

The tax as a percentage of salary for A =  $\frac{450}{12000} \times 100 = 3.75\%$

The tax as a percentage of salary for B =  $\frac{950}{18000} \times 100 = 5.278\%$

The tax as a percentage of salary for C =  $\frac{550}{15000} \times 100 = 3.67\%$

The tax as a percentage of salary for D =  $\frac{600}{16000} \times 100 = 3.75\%$

∴ The tax as a percentage of salary is highest for B

Hence, the correct answer is Option A

Question 57

If the three sides of a triangle are 11 cm, 12 cm and 13 cm, then what is the area of the given triangle (in cm<sup>2</sup>)?

- A  $13\sqrt{26}$
- B  $15\sqrt{13}$
- C  $6\sqrt{105}$
- D  $17\sqrt{42}$

Answer: C

Explanation:

Given, length of sides of triangle

$$a=11, b=12, c=13$$

$$\text{Semiperimeter of triangle}(s) = \frac{a+b+c}{2} = \frac{11+12+13}{2} = 18$$

$$\text{Area of triangle} = \sqrt{s(s-a)(s-b)(s-c)}$$

$$= \sqrt{18(18-11)(18-12)(18-13)}$$

$$= \sqrt{18 \times 7 \times 6 \times 5}$$

$$= \sqrt{3 \times 6 \times 7 \times 6 \times 5}$$

$$= 6\sqrt{3 \times 7 \times 5}$$

$$= 6\sqrt{105}$$

Hence, the correct answer is Option C

## SSC CHSL Study Material

### Question 58

A person deposits ₹8,000 in a bank which pays 8% p.a. simple interest. The amount after 8 years will be:

A ₹12,600

B ₹10,784

C ₹13,120

D ₹12,545

Answer: C

### Explanation:

Given, Principal (P) = ₹8,000

Rate of interest (R) = 8% per annum

Time (T) = 8 years

$$\therefore \text{Amount} = P + \frac{PTR}{100} = 8000 + \frac{8000 \times 8 \times 8}{100} = 8000 + 5120 = ₹13,120$$

Hence, the correct answer is Option C

### Question 59

If  $\sin x = \frac{12}{37}$ , then what is the value of  $\tan x$ ?

A  $\frac{35}{12}$

B  $\frac{35}{37}$

C  $\frac{37}{12}$

D  $\frac{12}{35}$

Answer: D

### Explanation:

Given,  $\sin x = \frac{12}{37}$

$$\therefore \tan x = \frac{\sin x}{\cos x}$$

$$= \frac{\sin x}{\sqrt{1-\sin^2 x}}$$

$$= \sqrt{1 - \left(\frac{12}{37}\right)^2}$$

$$= 37\sqrt{1 - \frac{144}{1369}}$$

$$= 37\sqrt{\frac{1369 - 144}{1369}}$$

$$= 37\sqrt{\frac{1225}{1369}}$$

$$= 37 \times \frac{35}{37}$$

$$= 35$$

Hence, the correct answer is Option D

### Question 60

If  $\tan \theta = \frac{20}{21}$ , then the value of  $\frac{\sin \theta - \cos \theta}{\sin \theta + \cos \theta}$  is:

A  $\frac{29}{35}$

B  $-\frac{1}{41}$

C  $\frac{27}{21}$

D  $-\frac{29}{31}$

Answer: B

### Explanation:

Given,  $\tan \theta = \frac{20}{21}$

$$\frac{\sin \theta - \cos \theta}{\sin \theta + \cos \theta} = \frac{\cos \theta \left( \frac{\sin \theta}{\cos \theta} - 1 \right)}{\cos \theta \left( \frac{\sin \theta}{\cos \theta} + 1 \right)}$$

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

$$= \frac{\frac{20}{21} - 1}{\frac{20}{21} + 1}$$

$$= \frac{20 - 21}{20 + 21}$$

$$= -\frac{1}{41}$$

Hence, the correct answer is Option B

SSC CHSL Free App

### Question 61

The sum of three numbers is 79. If the ratio of the first number to the second number is 4 : 7 and that of the second number to the third number is 4 : 5, then the second number is:

A 12

B 28

C 15

D 35

Answer: B

**Explanation:**

Let the three numbers are a, b, c

Given, Sum of the numbers = 79

Ratio of first number to second number = 4 : 7

$$\Rightarrow a : b = 4 : 7$$

$$\Rightarrow a : b = 16 : 28$$

Ratio of second number to third number = 4 : 5

$$\Rightarrow b : c = 4 : 5$$

$$\Rightarrow b : c = 28 : 35$$

$$\Rightarrow a : b : c = 16 : 28 : 35$$

$$\therefore \text{Second number} = \frac{28}{79} \times 79 = 28$$

Hence, the correct answer is Option B

**Question 62**

If 22% of x = 30% of y, then y : x is equal to:

A 15 : 14

B 11 : 15

C 15 : 11

D 17 : 16

Answer: B

**Explanation:**

Given, 22% of x = 30% of y

$$\Rightarrow \frac{22}{100} \times x = \frac{30}{100} \times y$$

$$\Rightarrow \frac{y}{x} = \frac{22}{30}$$

$$\Rightarrow \frac{y}{x} = \frac{11}{15}$$

$$\Rightarrow y : x = 11 : 15$$

Question 63



The above graph represents the salary, expenditure, tax and savings (in rupees) details of the persons A, B, C and D per month. Study the graph and answer the question.

Tax as the percentage of salary is least in case of:

- A B
- B C
- C A
- D D

Answer: B

**Explanation:**

From the graph,

The tax as a percentage of salary for A =  $\frac{450}{12000} \times 100 = 3.75\%$

The tax as a percentage of salary for B =  $\frac{950}{18000} \times 100 = 5.278\%$

The tax as a percentage of salary for C =  $\frac{550}{15000} \times 100 = 3.67\%$

The tax as a percentage of salary for D =  $\frac{600}{16000} \times 100 = 3.75\%$

∴ The tax as a percentage of salary is least for C

Hence, the correct answer is Option B

**Daily Free SSC Practice Set**

Question 64

A train of length 350 m crosses a bridge of length 250 m in 20 seconds. What is the speed of the train (in km/h)?

- A 88
- B 72
- C 108
- D 95

Answer: C

**Explanation:**

Given, length of the train ( $L$ ) = 350 m

Length of the bridge ( $l$ ) = 250 m

Time taken by train to cross the bridge ( $t$ ) = 20 sec

$$\therefore \text{Speed of the train} = \frac{L+l}{t} = \frac{350+250}{20} = 30 \text{ m/sec} = 30 \times \frac{18}{5} \text{ km/h} = 108 \text{ km/h}$$

Hence, the correct answer is Option C

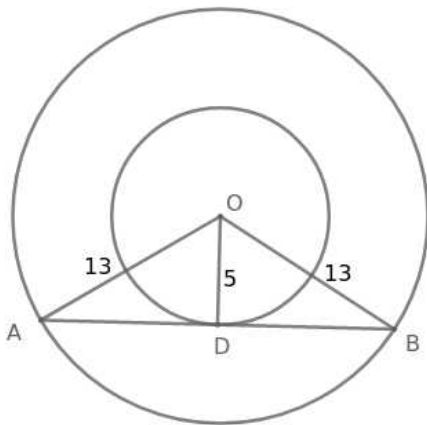
**Question 65**

Two concentric circles are of radii 13 cm and 5 cm. The length of the chord of the larger circle which touches the smaller circle is:

- A 15 cm
- B 10 cm
- C 24 cm
- D 13 cm

**Answer: C**

**Explanation:**



Given radii of two concentric circles are 13 cm and 5 cm

Radius of the larger circle =  $OA = 13$  cm

Radius of the smaller circle =  $OD = 5$  cm

From the figure,

In  $\triangle OAD$ ,

$$OD^2 + AD^2 = OA^2$$

$$\Rightarrow 5^2 + AD^2 = 13^2$$

$$\Rightarrow 25 + AD^2 = 169$$

$$\Rightarrow AD^2 = 144$$

$$\Rightarrow AD = 12 \text{ cm}$$

Length of the chord =  $2(AD) = 2(12) = 24$  cm

Hence, the correct answer is Option C

**Question 66**

Shyam can complete a task in 12 days by working 10 hours a day. How many hours a day should he work to complete the task in 8 days?



- A 12
- B 15
- C 16
- D 14

**Answer: B**

**Explanation:**

Given, Shyam can complete the task in 12 days working 10 hours a day

$\Rightarrow$  Total time required for Shyam to complete the task =  $12 \times 10 = 120$  hours

$\therefore$  Number of hours Shyam should work in a day to complete task in 8 days =  $\frac{120}{8} = 15$  hours

Hence, the correct answer is Option B

## Free SSC Study Material (18,000 Solved Questions)

**Question 67**

The lengths of the two sides forming the right angle of a right-angled triangle are 21 cm and 20 cm. What is the radius of the circle circumscribing the triangle?

- A 12 cm
- B 14 cm
- C 15.5 cm
- D 14.5 cm

**Answer: D**

**Explanation:**

Given,

The lengths of the two sides forming the right angle of a right-angled triangle are 21 cm and 20 cm.

Let the length of hypotenuse of the right-angled triangle =  $H$

$$\Rightarrow H^2 = 21^2 + 20^2$$

$$\Rightarrow H^2 = 441 + 400$$

$$\Rightarrow H^2 = 841$$

$$\Rightarrow H = 29 \text{ cm}$$

We know that diameter of the circle circumscribing the right-angled triangle is equal to length of hypotenuse

$$\Rightarrow \text{Diameter of the circle} = 29 \text{ cm}$$

$$\Rightarrow \text{Radius of the circle} = \frac{29}{2} = 14.5 \text{ cm}$$

Hence, the correct answer is Option D

**Question 68**

Three years ago, the average age of a husband, wife and child was 26 years, and that of the wife and the child, 5 years ago, was 20 years. The present age of the husband is:

- A 37 years
- B 45 years

C 39 years

D 42 years

**Answer: A**

**Explanation:**

Let the present age of husband, wife and child are  $H, W, C$  respectively

Given,

Three years ago, the average age of husband, wife and child was 26 years

$$\Rightarrow \frac{(H-3)+(W-3)+(C-3)}{3} = 26$$

$$\Rightarrow H + W + C - 9 = 78$$

$$\Rightarrow H + W + C = 87 \dots\dots\dots(1)$$

Five years ago, the average age of wife and child was 20 years

$$\Rightarrow \frac{(W-5)+(C-5)}{2} = 20$$

$$\Rightarrow W + C - 10 = 40$$

$$\Rightarrow W + C = 50 \dots\dots\dots(2)$$

Subtract equation(2) from equation(1),

$$\Rightarrow H = 37 \text{ years}$$

$\therefore$  Present age of husband = 37 years

Hence, the correct answer is Option A

**Question 69**

When an integer  $n$  is divided by 5, the remainder is 3. What is the remainder if  $8n$  is divided by 5?

A 1

B 2

C 4

D 3

**Answer: C**

**Explanation:**

Given,

When the integer  $n$  is divided by 5, the remainder is 3

Let the quotient =  $k$

$$\Rightarrow n = 5k + 3$$

$$\therefore 8n = 8(5k+3)$$

$$\Rightarrow 8n = 40k + 24$$

$$\Rightarrow 8n = 40k + 20 + 4$$

$$\Rightarrow 8n = 5(8k+4) + 4$$

It is in the form of dividend = divisor  $\times$  quotient + remainder

$\therefore$  The remainder when  $8n$  is divided by 5 is 4

Hence, the correct answer is Option C

## 1500+ Very Important Free SSC Solved Questions

### Question 70

What is the value of  $\sin^2 45^\circ + \cos^2 45^\circ$ ?

- A 2
- B 1
- C 0
- D -1

**Answer: B**

#### Explanation:

It is in the form of trigonometric identity

$$\sin^2 \theta + \cos^2 \theta = 1$$

$$\Rightarrow \sin^2 45^\circ + \cos^2 45^\circ = 1$$

Hence, the correct answer is Option B

### Question 71

If the sum of two numbers is 11 and the sum of their squares is 65, then the sum of their cubes will be:

- A 407
- B 576
- C 355
- D 615

**Answer: A**

#### Explanation:

Let the two numbers are  $a$  and  $b$

Given, Sum of their squares = 65

$$\Rightarrow a^2 + b^2 = 65 \dots\dots\dots(1)$$

Sum of two numbers = 11

$$\Rightarrow a + b = 11$$

$$\Rightarrow (a + b)^2 = 11^2$$

$$\Rightarrow a^2 + b^2 + 2ab = 121$$

$$\Rightarrow 65 + 2ab = 121$$

$$\Rightarrow 2ab = 56$$

$$\Rightarrow ab = 28 \dots\dots\dots(2)$$

$\therefore$  Sum of their cubes =  $a^3 + b^3$

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

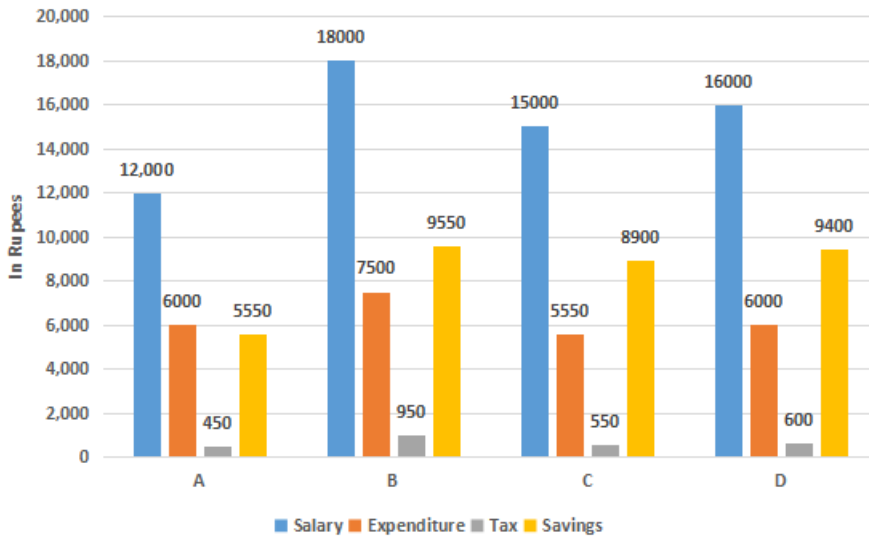
$$= (11)(65 - 28)$$

$$= (11)(37)$$

$$= 407$$

Hence, the correct answer is Option A

### Question 72



The above graph represents the salary, expenditure, tax and savings (in rupees) per month of the persons A, B, C and D. Study the graph and answer the question.

Savings as a percentage of salary is highest in case of:

A C

B A

C B

D D

Answer: A

#### Explanation:

From the graph,

$$\text{Savings as a percentage of salary for A} = \frac{5550}{12000} \times 100 = 46.25\%$$

$$\text{Savings as a percentage of salary for B} = \frac{9550}{18000} \times 100 = 53.05\%$$

$$\text{Savings as a percentage of salary for C} = \frac{8900}{15000} \times 100 = 59.33\%$$

$$\text{Savings as a percentage of salary for D} = \frac{9400}{16000} \times 100 = 58.75\%$$

∴ Savings as a percentage of salary is highest for C

Hence, the correct answer is Option A

## SSC Exam Update Videos & Free Study Material (YouTube Channel)

### Question 73

The marked price of a ceiling fan is ₹3,250 and the shopkeeper allows a discount of 8% on it. What is the selling price of the fan?

A ₹3,070

B ₹3,270

C ₹2,990

D ₹2,590

Answer: C

**Explanation:**

Given, marked price of the ceiling fan = ₹3,250

Discount% = 8%

$$\text{Discount} = \frac{8}{100} \times 3250 = ₹260$$

$$\therefore \text{Selling Price} = \text{Marked price} - \text{Discount} = 3250 - 260 = ₹2,990$$

Hence, the correct answer is Option C

**Question 74**

If  $x^2 + \frac{1}{x^2} = 38$ , then what is the value of  $|x - \frac{1}{x}|$ ?

A 9

B 5

C 6

D 4

**Answer: C**

**Explanation:**

$$x^2 + \frac{1}{x^2} = 38$$

$$\Rightarrow x^2 + \frac{1}{x^2} - 2 + 2 = 38$$

$$\Rightarrow x^2 + \frac{1}{x^2} - 2 \cdot x \cdot \frac{1}{x} + 2 = 38$$

$$\Rightarrow \left(x - \frac{1}{x}\right)^2 = 38 - 2$$

$$\Rightarrow \left(x - \frac{1}{x}\right)^2 = 36$$

$$\Rightarrow \left|x - \frac{1}{x}\right| = 6$$

Hence, the correct answer is Option C

**Question 75**

Kishore had a loss of 20% on selling an article for ₹7,160. At what price should he have sold the item to make a profit of 30%?

A ₹11,635

B ₹8,988

C ₹12,007

D ₹10,678

**Answer: A**

**Explanation:**

Given,

Selling price of the article = ₹7,160

Loss% = 20%

Let the cost price of the article = C

$$\Rightarrow \frac{80}{100} C = 7160$$

$$\Rightarrow C = ₹8950$$

$$\text{Selling price of the article when profit is 30\%} = \frac{130}{100} \times 8950 = ₹11,635$$

Hence, the correct answer is Option A

## Latest Job Updates on Telegram - Join here

### General Awareness

#### Instructions

For the following questions answer them individually

#### Question 76

'Bhagta Parab', a tribal festival that is celebrated between the period of spring and summer, originated in the state of \_\_\_\_\_.

- A Mizoram
- B Jharkhand
- C Madhya Pradesh
- D Maharashtra

Answer: B

## Join SSC Daily Quiz Telegram Group

#### Question 77

Which is the correctly matched option of captain of cricket team and year of World Cup victory?

- A Michael Clarke - 2007
- B Imran Khan - 1996
- C Kapil Dev - 1983
- D Ricky Ponting - 2011

Answer: C

#### Question 78

Which of the following parts of the human body releases carbon dioxide, brought in by the blood, from the rest of the body?

- A Alveoli
- B Larynx
- C Trachea
- D Bronchi

Answer: A

#### Question 79

Which of the following schemes launched by the present government has been correctly matched with its purpose?

- A AASHA Scheme - Remunerative prices to ward boys for serving patients
- B UJJWALA Scheme - Street lighting

- C SUMAN Scheme - Free medicines to pregnant women
- D SAGARMALA Scheme - To regularise selling of goods at ports

**Answer: C**

## 25 SSC CHSL Mocks for just Rs. 149

### Question 80

National Sports Day of India is celebrated on 29 August every year in honour of which sportsperson?

- A Major Dhyan Chand Singh
- B Milkha Singh
- C Balbir Singh Sr.
- D Leslie Walter Claudius

**Answer: A**

### Question 81

The award given to the best coach among coaches of all the different games is known as \_\_\_\_\_.

- A Phalke Award
- B Ashoka Chakra Award
- C Dronacharya Award
- D Arjuna Award

**Answer: C**

### Question 82

Who was the chairman of the drafting committee of the Constitution of India?

- A B.R. Ambedkar
- B Sardar Vallabhbhai Patel
- C Mohammad Saadullah
- D K.M. Munshi

**Answer: A**

## SSC CHSL Free Mock Test

### Question 83

As of January 2020, who was the chief of the Indian Army?

- A Bipin Rawat
- B Manoj Mukund Naravane
- C Rakesh Kumar Singh Bhadauria

D Karambir Singh

Answer: B

Question 84

When was the 'Quit India Movement' started?

A August 1942

B April 1919

C February 1928

D October 1905

Answer: A

Question 85

\_\_\_\_\_ is no longer considered as a planet within Earth's Solar system.

A Pluto

B Uranus

C Mars

D Neptune

Answer: A

## SSC CHSL Previous Papers (DOWNLOAD PDF)

Question 86

In which year did the convention on wetlands, the 'Ramsar Convention', come into force in India?

A 1984

B 1978

C 1982

D 1991

Answer: C

Question 87

Who among the following is NOT a well known Tabla player in Hindustani classical style of music?

A Zakir Hussain

B Latif Ahmed

C Amjad Ali

D Swapan Chowdhury

Answer: C



**Question 88**

**Who appoints the Chief Justice of India?**

- A President of India in consultation with senior judges of Supreme Court
- B Judges of Supreme Court and High Court
- C President of India in consultation with senior judges of Supreme Court and High Court
- D President of India

**Answer: D**

## SSC CGL Previous Papers (DOWNLOAD PDF)

**Question 89**

**Mughal emperor Shah Jahan got the monument Taj Mahal constructed in memory of his wife \_\_\_\_\_.**

- A Jahanara
- B Roshnara
- C Noorjahan
- D Mumtaz Mahal

**Answer: D**

**Question 90**

**Which Rajput ruler of Mewar in 1576 fought the Battle of Haldighati and then fled the field on his horse, Chetak?**

- A Maharana Pratap
- B Raja Man Singh
- C Rana Amar Singh
- D Maharaja Udai Singh

**Answer: A**

**Question 91**

**Which are the biodiversity hotspots of India?**

- (A) Western Ghats
- (B) North East India
- (C) Sunderland

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

**Answer: C**

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### Question 92

Who wrote the book 'My Experiments with Truth'?

- A Amitav Ghosh
- B Jawaharlal Nehru
- C M.K. Gandhi
- D Rabindranath Tagore

**Answer: C**

### Question 93

The three-carbon molecules broken down from six-carbon molecules of glucose during the first step in the process of nutrition in all organisms is called:

- A pyruvate
- B methane
- C butane
- D ethane

**Answer: A**

### Question 94

The 'transformation curve' is also known as the:

- A demand curve
- B supply curve
- C indifference curve
- D production possibility curve

**Answer: D**

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

### Question 95

\_\_\_\_\_ refers to money that has already been spent and which cannot be recovered.

- A Replacement cost
- B Opportunity cost
- C Sunk cost
- D Imputed cost

**Answer: C**

**Question 96**

**Which of the following statements about firewall (in the context of computing) is INCORRECT?**

- A It is frequently used to protect a computer network from unauthorised access.
- B It is a combination of both, software and hardware devices.
- C It is unable to permit legitimate communication to pass.
- D It permits network transmission based on a set of rules.

**Answer: C**

**Question 97**

**Which American President won the Nobel Peace Prize?**

- A Barack Obama
- B George Washington
- C Bill Clinton
- D Abraham Lincoln

**Answer: A**

## SSC CHSL Study Material

**Question 98**

**With which neighboring country does Gujarat share its border?**

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

**Answer: C**

**Question 99**

**What is the name of the force with which earth pulls everything towards itself?**

- A Resistance
- B Gravity
- C Thrust
- D Air pressure

**Answer: B**

**Question 100**

**'Rangoli Bihu' one of the major festival of Assam is celebrated in the month of\_\_\_\_\_.**

- A October
- B April
- C March
- D June

Answer: B

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