



## SSC CHSL 17 March 2018 Evening Shift

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**Instructions**

For the following questions answer them individually

**Question 1**

Find the value of  $[7(64^{\frac{1}{3}} + 27^{\frac{1}{3}})^3]^{\frac{1}{4}}$

- A 7
- B 6
- C 49
- D 343

**Answer: A**

**Explanation:**

Expression :  $[7(64^{\frac{1}{3}} + 27^{\frac{1}{3}})^3]^{\frac{1}{4}}$

$$= [7(4^{3 \times \frac{1}{3}} + 3^{3 \times \frac{1}{3}})^3]^{\frac{1}{4}}$$

$$= [7(4 + 3)^3]^{\frac{1}{4}}$$

$$= [7^{3+1}]^{\frac{1}{4}}$$

$$= 7^{4 \times \frac{1}{4}} = 7$$

=> Ans - (A)

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**Question 2**

Which of the following number is largest among all ?

0.7, 0.7, 0.070.07

- A 0.07
- B 0.07
- C 0.7
- D 0.7

**Answer: D**

**Explanation:**

Terms : 0.7, 0.7, 0.070.07

We know that  $0.n > 0.0n$ , where  $n$  is any one digit number.

Also,  $0.77 > 0.70$ , =>  $0.7 > 0.7$

∴ 0.7 is the largest.

=> Ans - (D)

**Question 3**

If  $a_n = \frac{1}{n+1} + 1$ , then find the value of  $a_1 + a_3 + a_5$

- A  $\frac{17}{12}$

B  $\frac{27}{12}$

C  $\frac{37}{12}$

D  $\frac{47}{12}$

Answer: D

Explanation:

Given :  $a_n = \frac{1}{n+1} + 1$

To find :  $a_1 + a_3 + a_5$

$$= \left(\frac{1}{1+1} + 1\right) + \left(\frac{1}{3+1} + 1\right) + \left(\frac{1}{5+1} + 1\right)$$

$$= \left(\frac{1}{2} + 1\right) + \left(\frac{1}{4} + 1\right) + \left(\frac{1}{6} + 1\right)$$

$$= \frac{(6+3+2)}{12} + 3$$

$$= \frac{11}{12} + 3$$

$$= \frac{(11+36)}{12} = \frac{47}{12}$$

=> Ans - (D)

Question 4

If  $p$  &  $q = p^2 + 4pq - q^2$  then find the value of  $(3&6) + (4&5)$ .

A 98

B 106

C 116

D 126

Answer: C

Explanation:

Given :  $p \& q = p^2 + 4pq - q^2$

To find :  $(3&6) + (4&5)$

$$= (3^2 + 4 \times 3 \times 6 - 6^2) + (4^2 + 4 \times 4 \times 5 - 5^2)$$

$$= (9 + 72 - 36) + (16 + 80 - 25)$$

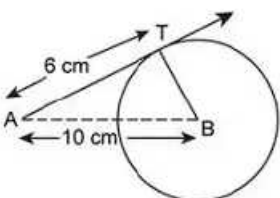
$$= 45 + 71 = 116$$

=> Ans - (C)

## SSC CHSL Free Mock Test

Question 5

For the circle shown below, find the length (in cm) of the largest cord of the circle.

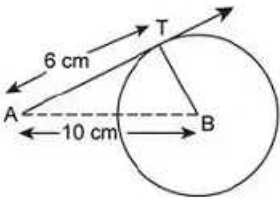


- A 8
- B 12
- C 16
- D 18



Answer: C

Explanation:



Given : AT is tangent on the circle. AT = 6 cm and AB = 10 cm

To find : Largest chord = Diameter = ?

Solution : In right  $\triangle ABT$

$$\Rightarrow (BT)^2 = (AB)^2 - (AT)^2$$

$$\Rightarrow (BT)^2 = (10)^2 - (6)^2$$

$$\Rightarrow (BT)^2 = 100 - 36 = 64$$

$$\Rightarrow BT = \sqrt{64} = 8 \text{ cm}$$

$$\therefore \text{Diameter} = 2 \times 8 = 16 \text{ cm}$$

$\Rightarrow$  Ans - (C)

#### Question 6

The base and height of a right angled triangle is 12 cm and 5 cm respectively. Find the circum-radius (in cm) of the triangle.

- A 5
- B 6
- C 6.5
- D 7

Answer: C

Explanation:

Length of base and height of triangle = 12 and 5 cm

$\Rightarrow$  Let length of hypotenuse =  $x$  cm

$$\Rightarrow (x)^2 = (12)^2 + (5)^2$$

$$\Rightarrow (x)^2 = 144 + 25 = 169$$

$$\Rightarrow x = \sqrt{169} = 13 \text{ cm}$$

Also, the circumcentre of a right angled triangle lies on its hypotenuse, thus circumradius =  $\frac{1}{2} \times$  (hypotenuse)

$$= \frac{1}{2} \times 13 = 6.5 \text{ cm}$$

$\Rightarrow$  Ans - (C)

### Question 7

If the price of sugar is decreased by 18%, then a person can buy 16.2 kg sugar more for Rs 4500. What will be the new price (in Rs) of sugar per kg?

- A 40
- B 60
- C 45
- D 50

**Answer:** D

#### Explanation:

Let price of sugar = Rs.  $100x$  per kg

$$\text{Sugar bought for Rs. 4500} = \frac{4500}{100x} = \frac{45}{x} \text{ kg}$$

$$\text{New price of sugar} = 100x - \left(\frac{18}{100} \times 100x\right) = \text{Rs. } 82x$$

$$\text{Sugar bought for Rs. 4500} = \frac{4500}{82x} \text{ kg}$$

According to ques,

$$\Rightarrow \frac{45}{x} + 16.2 = \frac{4500}{82x}$$

$$\Rightarrow \frac{4500}{82x} - \frac{4500}{100x} = 16.2$$

$$\Rightarrow 4500\left(\frac{1}{82x} - \frac{1}{100x}\right) = 16.2$$

$$\Rightarrow \frac{100x - 82x}{100 \times 82x} = \frac{16.2}{4500}$$

$$\Rightarrow \frac{18}{82x} = \frac{162}{450}$$

$$\Rightarrow x = \frac{18}{82} \times \frac{450}{162}$$

$$\Rightarrow x = \frac{50}{82}$$

$$\therefore \text{New price} = 82 \times \frac{50}{82} = \text{Rs. } 50$$

$\Rightarrow$  Ans - (D)

## SSC CHSL Previous Papers (DOWNLOAD PDF)

### Question 8

The income of P, Q and R are in the ratio of 5 : 4 : 3 respectively and their expenses are in the ratio of 6 : 5 : 4 respectively. If P saves Rs 4000 out of an income of Rs 10000, then what will be the saving (in Rs) of Q?

- A 3000
- B 4500
- C 2000
- D 2500

**Answer:** A

#### Explanation:

Income of P = Rs. 10,000 and savings of P = Rs. 4,000

$$\Rightarrow \text{Expenditure of P} = 10000 - 4000 = \text{Rs. } 6,000$$

Ratio of income of P, Q and R = 5 : 4 : 3

$$\Rightarrow \text{Income of Q} = \frac{4}{5} \times 10,000 = \text{Rs. } 8,000$$

$$\text{Similarly, expenditure of Q} = \frac{5}{6} \times 6,000 = \text{Rs. } 5,000$$

$$\therefore \text{Savings of Q} = 8000 - 5000 = \text{Rs. } 3,000$$

$\Rightarrow$  Ans - (A)

#### Question 9

X and Y are two alloys which are prepared by mixing zinc and aluminium in the ratio of 1 : 4 and 11 : 8 respectively. If equal quantities of alloys are melted to form a third alloy Z then what is the ratio of zinc and aluminium in alloy Z ?

A 32 : 47

B 37 : 58

C 37 : 95

D 74 : 95

**Answer: B**

#### Explanation:

Ratio of zinc and aluminium in alloy X = 1 : 4

Ratio of zinc and aluminium in alloy Y = 11 : 8

Let quantity of both alloys taken = L.C.M. (5,9) = 95 units

$$\Rightarrow \text{Zinc in alloy X} = \frac{1}{(1+4)} \times 95 = 19 \text{ units}$$

Aluminium present in alloy X = 95 - 19 = 76 units

Similarly, zinc in alloy Y = 55 units and aluminium = 40 units

$$\therefore \text{Ratio of zinc and aluminium in alloy Z} = \frac{(19+55)}{(76+40)}$$

$$= \frac{74}{116} = \frac{37}{58}$$

$\Rightarrow$  Ans - (B)

#### Question 10

What will be the average of all the prime numbers before 19?

A 8.28

B 11.5

C 5.34

D 9.63

**Answer: A**

#### Explanation:

Sum of all the prime numbers before 19

$$= 2 + 3 + 5 + 7 + 11 + 13 + 17 = 58$$

$$\Rightarrow \text{Average} = \frac{58}{7} = 8.28$$

$\Rightarrow$  Ans - (A)

## SSC CGL Previous Papers (DOWNLOAD PDF)

### Question 11

The simple interest on a sum of money is  $\frac{16}{25}$  of the principal. The number of years is equal to the rate of interest per annum. What is the rate (in percentage) of interest per annum?

- A 4
- B 16
- C 8
- D 12

Answer: C

#### Explanation:

Let sum of money invested = Rs.  $100x$

$$\Rightarrow \text{Simple interest} = \frac{16}{25} \times 100x = \text{Rs. } 64x$$

Let rate of interest = time period =  $x$

$$\Rightarrow \text{Simple interest} = \frac{P \times R \times T}{100}$$

$$\Rightarrow \frac{100x \times x \times x}{100} = 64x$$

$$\Rightarrow x^2 = 64$$

$$\Rightarrow x = \sqrt{64} = 8\%$$

$\Rightarrow$  Ans - (C)

### Question 12

If Rajan purchase 21 pens for Rs.20 and sell all the pens at the rate of 20 pens for Rs.21, then what will be the profit percentage?

- A 12.5
- B 13.33
- C 10.25
- D 16.66

Answer: C

#### Explanation:

Cost price of 21 pens = Rs. 20

$\Rightarrow$  Cost price of 420 pens = Rs. 400

Similarly, Selling price of 420 pens = Rs. 441

$$\therefore \text{Profit \%} = \frac{(441-400)}{400} \times 100$$

$$= \frac{41}{4} = 10.25\%$$

$\Rightarrow$  Ans - (C)

### Question 13

A book is sold at three successive discounts of 20%, 20% and 10%. What is the net discount (in percentage)?

- A 42.4

B 48.6

C 44.2

D 40.4

**Answer: A**

**Explanation:**

Let marked price = Rs. 100

After 1st discount of 20%, price =  $100 - \left(\frac{20}{100} \times 100\right)$

=  $100 - 20 = 80$

After 2nd discount of 20% (on changed price), selling price =  $80 - \left(\frac{20}{100} \times 80\right)$

=  $80 - 16 = \text{Rs. } 64$

After 3rd discount of 10%, net selling price =  $64 - \left(\frac{10}{100} \times 64\right)$

=  $64 - 6.4 = \text{Rs. } 57.6$

$\therefore$  Net discount =  $\frac{(100-57.6)}{100} \times 100 = 42.4\%$

=> Ans - (A)

## SSC CGL Free Mock Test (Latest Pattern)

**Question 14**

What is the value of  $\sqrt[3]{512} + \sqrt{169} + \sqrt[3]{216} + \sqrt{225}$  ?

A 48

B 32

C 42

D 36

**Answer: C**

**Explanation:**

Expression :  $\sqrt[3]{512} + \sqrt{169} + \sqrt[3]{216} + \sqrt{225}$

=  $\sqrt[3]{8 \times 8 \times 8} + 13 + \sqrt[3]{6 \times 6 \times 6} + 15$

=  $8 + 13 + 6 + 15 = 42$

=> Ans - (C)

**Question 15**

Rashika can do a work in 5 days. Rashmi can do the same work in 7 days. Both of them finish the work together and they get Rs.240 for the work. What is the share (in Rs) of Rashika?

A 120

B 100

C 140

D 160

**Answer: C**



**Explanation:**

Time taken by Rashika = 5 days and by Rashmi = 7 days

$$\text{Efficiency} \propto \frac{1}{\text{time}}$$

=> Ratio of efficiency of Rashika and Rashmi = 7 : 5

$$\therefore \text{Share of Rashika} = \frac{7}{7+5} \times 240$$

$$= 7 \times 20 = \text{Rs. } 140$$

=> Ans - (C)

**Question 16**

$\frac{1}{3}$  part of a certain journey is covered with the speed of 25 km/hr,  $\frac{1}{2}$  part of the journey is covered with the speed of 45 km/hr and the remaining part covered with the speed of 37.5 km/hr. What is the average speed (in km/hr) for the whole journey?

A 37.08

B 34.61

C 43

D 56

**Answer: B**

**Explanation:**

Let total distance covered in the journey be =  $6x$  km

$$\text{Distance covered with the speed of 25 km/hr} = \frac{1}{3} \times 6x = 2x \text{ km}$$

$$\text{Distance covered with the speed of 45 km/hr} = \frac{1}{2} \times 6x = 3x \text{ km}$$

Thus, remaining distance covered with speed of 37.5 km/hr =  $6x - (2x + 3x) = x$  km

$$\text{Now, total time taken throughout the journey} = \left(\frac{2x}{25}\right) + \left(\frac{3x}{45}\right) + \left(\frac{x}{37.5}\right)$$

$$= \left(\frac{6x}{75}\right) + \left(\frac{5x}{75}\right) + \left(\frac{2x}{75}\right) = \frac{13x}{75} \text{ hr}$$

$\therefore$  Average speed = total distance / total time

$$= 6x \div \frac{13x}{75}$$

$$= 6x \times \frac{75}{13x} = 34.61 \text{ km/hr}$$

=> Ans - (B)

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

**Instructions**

The pie chart shows the contribution of all the sectors towards the GDP of the economy of a certain country. Study the diagram and answer the following questions.

### GDP OF THE SECTOR (IN \$ MILLIONS)



#### Question 17

Which sector has made the second highest contribution?

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

Answer: D

#### Explanation:

Clearly, sector F has made the second highest contribution = \$65 million

=> Ans - (D)

#### Question 18

What is the total GDP of the country (in \$ millions) ?

- A 400
- B 450
- C 360
- D 300

Answer: C

#### Explanation:

Total GDP of the country (in \$ millions)

$$= 100 + 40 + 60 + 30 + 40 + 65 + 25$$

$$= 360$$

=> Ans - (C)

#### Question 19

The measure of the central angle of the sector representing D is \_\_\_\_\_ degrees.

- A 30
- B 36
- C 45

D 60

Answer: A

**Explanation:**

Total GDP of the country (in \$ millions)

$$= 100 + 40 + 60 + 30 + 40 + 65 + 25 = 360$$

GDP of sector D (in \$ millions) = 30

$$\Rightarrow \text{Measure of the central angle of the sector representing D} = \frac{30}{360} \times 360^\circ = 30^\circ$$

$\Rightarrow$  Ans - (A)

## SSC CHSL Study Material

**Question 20**

If in the following year sectors A, B and C grew by 9% and the remaining sectors grew by 3%, how much did the overall economy grow by?

A 6.33%

B 5.55%

C 5%

D 7%

Answer: A

**Explanation:**

Total GDP of the country (in \$ millions)

$$= 100 + 40 + 60 + 30 + 40 + 65 + 25 = 360$$

GDP of sectors A, B and C (in \$ millions) =  $100 + 40 + 60 = 200$

$$\Rightarrow \text{GDP after 9\% growth} = 200 + \left(\frac{9}{100} \times 200\right) = 218$$

Similarly, GDP of sectors D, E, F and G (in \$ millions) =  $30 + 40 + 65 + 25 = 160$

$$\Rightarrow \text{GDP after 3\% growth} = 160 + \left(\frac{3}{100} \times 160\right) = 164.8$$

Overall GDP (in \$ millions) after the growth =  $218 + 164.8 = 382.8$

$$\therefore \% \text{ increase} = \frac{(382.8 - 360)}{360} \times 100$$

$$= \frac{22.8}{360} = 6.33\%$$

$\Rightarrow$  Ans - (A)

**Instructions**

For the following questions answer them individually

**Question 21**

The area of a square is  $30.25\text{cm}^2$ . Find its perimeter (in cm).

A 44

B 23

C 22

D 46

**Answer: C**

**Explanation:**

Let side of square =  $s$  cm

$$\Rightarrow \text{Area} = s^2 = 30.25$$

$$\Rightarrow s = \sqrt{30.25} = 5.5 \text{ cm}$$

$$\therefore \text{Perimeter} = 4 \times 5.5 = 22 \text{ cm}$$

$\Rightarrow$  Ans - (C)

**Question 22**

The circumference of a circle is 110 cm. Find its radius (in cm).

A 35

B 19.5

C 17.5

D 39

**Answer: C**

**Explanation:**

Let radius of circle =  $r$  cm

$$\Rightarrow \text{Circumference} = 2\pi r = 110$$

$$\Rightarrow 2 \times \frac{22}{7} \times r = 110$$

$$\Rightarrow r = 110 \times \frac{7}{44}$$

$$\Rightarrow r = 2.5 \times 7 = 17.5 \text{ cm}$$

$\Rightarrow$  Ans - (C)

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**Question 23**

Find the total surface area ( $\text{in cm}^2$ ) of a right circular cylinder of diameter 28 cm and height 12 cm.

A 2200

B 2080

C 1920

D 2288

**Answer: D**

**Explanation:**

Height of cylinder,  $h = 12$  cm and radius,  $r = \frac{28}{2} = 14$  cm

Total surface area of cylinder =  $2\pi r(r + h)$

$$= 2 \times \frac{22}{7} \times 14 \times (14 + 12)$$

$$= 88 \times 26 = 2288 \text{ cm}^2$$

$\Rightarrow$  Ans - (D)

Question 24

What is the value of  $(\cos 30^\circ + \frac{1}{2})$ ?

A  $\frac{(\sqrt{3}+1)}{\sqrt{3}}$

B  $\frac{(\sqrt{2}+1)}{\sqrt{2}}$

C  $\frac{(\sqrt{3}+1)}{2}$

D  $\frac{(2\sqrt{3}+1)}{\sqrt{3}}$

Answer: C

Explanation:

Expression :  $(\cos 30^\circ + \frac{1}{2})$

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

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

=> Ans - (C)

Question 25

$\triangle DEF$  is right angled at E. If  $\operatorname{cosec} D = \frac{5}{4}$ , then what is the value of  $\operatorname{cosec} F$ ?

A  $\frac{5}{3}$

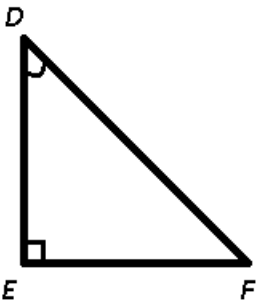
B  $\frac{3}{4}$

C  $\frac{4}{5}$

D  $\frac{4}{3}$

Answer: A

Explanation:



Given :  $\operatorname{cosec} D = \frac{5}{4}$

Also,  $\operatorname{cosec} D = \frac{DF}{EF} = \frac{5}{4}$

Let  $DF = 5$  cm and  $EF = 4$  cm

Thus, in  $\triangle DEF$ ,  $\Rightarrow (DE)^2 = (DF)^2 - (EF)^2$

$$\Rightarrow (DE)^2 = (5)^2 - (4)^2$$

$$\Rightarrow (DE)^2 = 25 - 16 = 9$$

$$\Rightarrow DE = \sqrt{9} = 3 \text{ cm}$$

$$\text{To find : cosec } F = \frac{DF}{DE}$$

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

$\Rightarrow$  Ans - (A)

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### Reasoning

#### Instructions

For the following questions answer them individually

#### Question 26

In the following question, select the related word pair from the given alternatives.

Police : Criminals :: ? : ?

- A Sister : Female
- B Teacher : Teach
- C Doctor : Patient
- D Law : Lawyer

Answer: C

#### Explanation:

Expression = Police : Criminals :: ? : ?

The first handles second, i.e. police incriminate criminals, while doctors treat patients.

$\Rightarrow$  Ans - (C)

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#### Question 27

In the following question, select the related number pair from the given alternatives.

16 : 21 :: ? : ?

- A 14 : 19
- B 15 : 23
- C 18 : 22
- D 21 : 29

Answer: A

#### Explanation:

Expression = 16 : 21 :: ? : ?

The difference between the numbers =  $21 - 16 = 5$

Similarly, only the difference between  $19 - 14 = 5$

$\Rightarrow$  Ans - (A)

**Question 28**

In the following question, select the related letter/letters from the given alternatives.

ROK : SNL :: PAT : ?

- A NYR
- B RCV
- C QZU
- D OZS

**Answer:** C

**Explanation:**

Expression = ROK : SNL :: PAT : ?

The pattern followed is :

R	O	K
(+1)	(-1)	(+1)
S	N	L

Similarly, for PAT : **QZU**

P	A	T
(+1)	(-1)	(+1)
Q	Z	U

=> Ans - (C)

**Question 29**

In the following question, select the odd word pair from the given alternatives.

- A Cow - Animal
- B Peacock - Bird
- C Planet - Venus
- D Chair - Furniture

**Answer:** C

**Explanation:**

In the given pairs, first is one of the type of second, hence **Planet - Venus** (because order is reverse) is the odd one out.

=> Ans - (C)

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**Question 30**

In the following question, four number pairs are given. The number on left side of (-) is related to the number of the right side of (-) with some Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

- A 11 - 100
- B 13 - 144

C 19 - 324

D 17 - 246

**Answer: D**

**Explanation:**

If we subtract one from the first number and take its square, we get :

$$(11 - 1)^2 = 100$$

$$(13 - 1)^2 = 144$$

$$(19 - 1)^2 = 324$$

$$(17 - 1)^2 = 256 \neq 246$$

=> Ans - (D)

**Question 31**

In the following question, select the odd letter/letters from the given alternatives.

A XYZ

B LMN

C CDF

D RST

**Answer: C**

**Explanation:**

(A) : X (+1 letter) = Y (+1 letter) = Z

(B) : L (+1 letter) = M (+1 letter) = N

(C) : C (+1 letter) = D (+2 letters) = F

(D) : R (+1 letter) = S (+1 letter) = T

=> Ans - (C)

**Question 32**

From the given alternatives, according to dictionary, which word will come at FOURTH position?

1. Camera

2. Candy

3. Candle

4. Camel

5. Cactus

A Candy

B Cactus

C Camera

D Candle

**Answer: D**

**Explanation:**

As per the order of dictionary :

= Cactus -> Camel -> Camera -> Candle -> Candy



Thus, fourth word = **Candle**

=> Ans - (D)

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### Question 33

In the following question, select the missing number from the given series.

15, 7.5, 7.5, ?, 22.5, 56.25

A 10.25

B 11.25

C 11

D 12.5

**Answer: B**

#### Explanation:

The pattern followed is :

$$15 \times 0.5 = 7.5$$

$$7.5 \times 1 = 7.5$$

$$7.5 \times 1.5 = 11.25$$

$$11.25 \times 2 = 22.5$$

$$22.5 \times 2.5 = 56.25$$

=> Ans - (B)

### Question 34

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

V, T, Q, M, ?

A K

B J

C I

D H

**Answer: D**

#### Explanation:

Series : V, T, Q, M, ?

The pattern followed is :

$$V (-2 \text{ letters}) = T (-3 \text{ letters}) = Q (-4 \text{ letters}) = M (-5 \text{ letters}) = H$$

=> Ans - (D)

### Question 35

Present ages of Rahul and his brother are in the ratio of 5 : 3. After 4 years ratio of ages of Rahul's brother and his sister will be 5 : 6. If the present age of his sister is 26 years, then what will be the age (in years) of Rahul 3 years from now?

- A 38
- B 35
- C 40
- D 31

**Answer: A**

**Explanation:**

Rahul's sister's age 4 years from now =  $26 + 4 = 30$  years

Ratio of Rahul's brother and his sister after 4 years =  $5 : 6$

=> Rahul's brother's age 4 years from now =  $\frac{5}{6} \times 30 = 25$  years

=> Rahul's brother's present age =  $25 - 4 = 21$  years

Ratio of Rahul and his brother's present age =  $5 : 3$

=> Rahul's present age =  $\frac{5}{3} \times 21 = 35$  years

∴ Rahul's age 3 years from now =  $35 + 3 = 38$  years

=> Ans - (A)

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**Question 36**

From the given alternatives, select the word which CANNOT be formed using the letters of the given word.

**Responsibility**

- A Ability
- B Pen
- C Nose
- D Possible

**Answer: A**

**Explanation:**

The word RESPONSIBILITY does not contain any 'A', thus the term **Ability** cannot be formed.

=> Ans - (A)

**Question 37**

In a certain code language, "Mayank is happy" is written as "ku tap pi", "happy are make" is written as "tap le fu" and "make is happy" is written as "fu pitap". What is the code for "happy" in that code language?

- A tap
- B fu
- C pi
- D ku

**Answer: A**

**Explanation:**

"Mayank is happy" is written as "ku tap pi"

"happy are make" is written as "tap le fu"

The common word in the above statements is 'happy' and the only common code is = 'tap'

Thus, the code for 'happy' = 'tap'

=> Ans - (A)

**Question 38**

In a certain code language, '÷' represents '+', '-' represents 'x', '+' represents '÷' and 'x' represents '-'. Find out the answer to the following question.

$$8 \div 2 - 25 + 10 \times 3 = ?$$

A 38

B 36

C 10

D 30

**Answer: C**

**Explanation:**

$$\text{Expression : } 8 \div 2 - 25 + 10 \times 3 = ?$$

$$\equiv 8 + 2 \times 25 \div 10 - 3$$

$$= 8 + \frac{50}{10} - 3$$

$$= 5 + 5 = 10$$

=> Ans - (C)

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**Question 39**

The following equation is incorrect. Which two signs should be interchanged to correct the equation?

$$12 + 8 - 25 \div 10 \times 18 = 14$$

A x and -

B + and ÷

C - and +

D ÷ and -

**Answer: A**

**Explanation:**

$$\text{Expression : } 12 + 8 - 25 \div 10 \times 18 = 14$$

(A) : x and -

$$\equiv 12 + 8 \times 25 \div 10 - 18 = 14$$

$$\text{L.H.S.} = 12 + \left(\frac{8 \times 25}{10}\right) - 18$$

$$= 12 + 20 - 18 = 14 = \text{R.H.S.}$$

=> Ans - (A)

**Question 40**

If  $2\%1 = 30$ ,  $6\%2 = 80$  and  $2\%5 = 70$ , then find the value of  $4\%1 = ?$

- A 100
- B 50
- C 80
- D 30

**Answer: B**

**Explanation:**

Given :  $2\%1 = 30$ ,  $6\%2 = 80$  and  $2\%5 = 70$

If we replace '%' with '+', and multiply the sum by 10, we get the desired result.

Eg :-  $(2 + 1) \times 10 = 30$

and  $(6 + 2) \times 10 = 80$  and  $(2 + 5) \times 10 = 70$

Similarly,  $(4 + 1) \times 10 = 50$

=> Ans - (B)

**Question 41**

Which of the following terms follows the trend of the given list?

QPQPQRQPQ, QPQPRQPQP, QPQRQPQP, QPRQPQPQP, QRPQPQPQP, \_\_\_\_\_.

- A RQPQPQPQP
- B QPQPQPRQP
- C QPQPQRQPQ
- D QPQPRQPQP

**Answer: A**

**Explanation:**

Expression : QPQPQRQPQ, QPQPRQPQP, QPQRQPQP, QPRQPQPQP, QRPQPQPQP, \_\_\_\_\_.

The above series is a combination of 4 'QP', also there is an 'R' in each term starting from fourth position from right side and shifting one place to the left in each term.

Thus, in the missing term, 'R' will be at first position = RQPQPQPQP

=> Ans - (A)

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**Question 42**

A man leaves from his home for work on his motorcycle. He goes 5 km South, then turn to his left and travels 6 km, then turns South and travels 13 km then turns West and travels 6 km to reach his office. Where is his office with reference to his home?

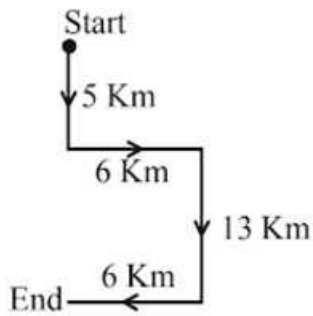
- A 8 km South
- B 18 km South
- C 13 km North

D 18 km North

Answer: B

Explanation:

The man begins his journey from starting point. He goes 5 km South, then turn to his left and travels 6 km towards east, then turns South and travels 13 km, finally turns West and travels 6 km to reach his office.



=> Distance = 5 + 13 = 18 km

∴ His office is 18 km south with reference to his home.

=> Ans - (B)

Question 43

In the question two statements are given, followed by two conclusions, I and II. You have to consider the statements to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.

Statement I: Some roses are flowers

Statement II: Some red are roses

Conclusion I: Some flowers are red

Conclusion II: All red are flowers

A Only conclusion I follows

B Only conclusion II follows

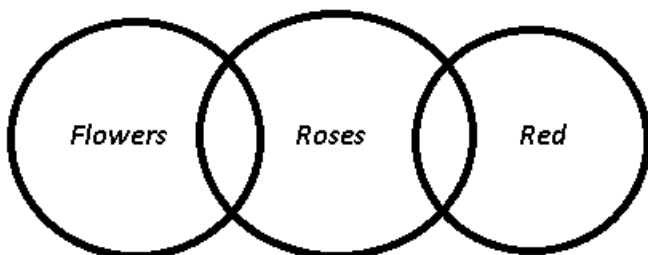
C Both conclusions I and II follow

D Neither conclusion I nor conclusion II follows

Answer: D

Explanation:

The venn diagram for above statements is :



Conclusion I: Some flowers are red = may or may not be true

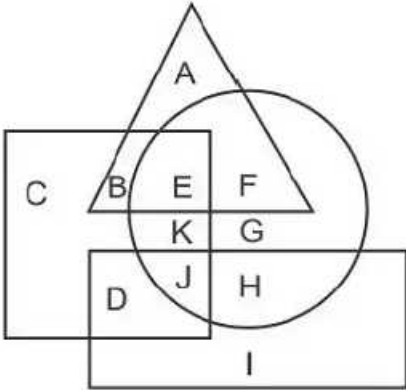
Conclusion II: All red are flowers = false

Thus, neither conclusion I nor conclusion II follows.

=> Ans - (D)

Question 44

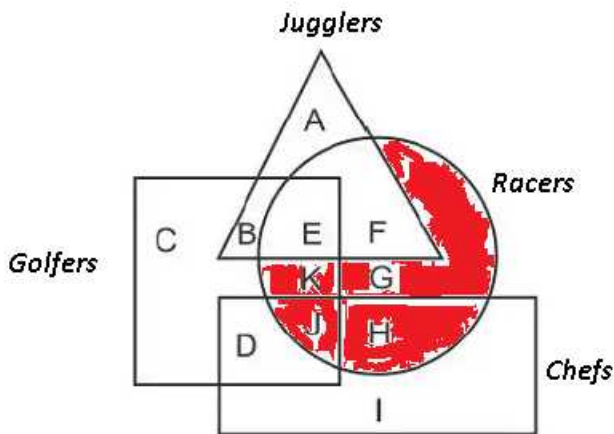
In the following figure, rectangle represents Chefs, circle represents Racers, triangle represents Jugglers and square represents Golfers. Which set of letters represents Racers who are not Jugglers?



- A EF
- B KGJH
- C EFKG
- D EKJ

Answer: B

Explanation:



Racers who are not Jugglers are represented by = KGJH

=> Ans - (B)

## SSC CHSL Free Mock Test

Question 45

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

MTS, LSR, KRQ, JQP, ?

- A HPO
- B ION
- C HON
- D IPO

**Answer:** D

**Explanation:**

Series : MTS, LSR, KRQ, JQP, ?

The pattern followed in each letter of the terms is :

1st letter : M (-1 letter) = L (-1 letter) = K (-1 letter) = J (-1 letter) = I

2nd letter : T (-1 letter) = S (-1 letter) = R (-1 letter) = Q (-1 letter) = P

3rd letter : S (-1 letter) = R (-1 letter) = Q (-1 letter) = P (-1 letter) = O

Thus, missing term = **IPO**

=> Ans - (D)

**Question 46**

In the following question, select the missing number from the given series.

113, 116, 119, 122, 125, ?

A 128

B 126

C 129

D 130

**Answer:** A

**Explanation:**

'3' is added to all the numbers.

113 + 3 = 116

116 + 3 = 119

119 + 3 = 122

122 + 3 = 125

125 + 3 = **128**

=> Ans - (A)

**Question 47**

In the following question, four groups of three numbers are given. In each group the second and third number are related to the first number by a Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

A (31, 33, 35)

B (41, 43, 45)

C (43, 45, 47)

D (33, 37, 39)

**Answer:** D

**Explanation:**

The numbers are of the form :  $(x, x + 2, x + 4)$

But in the last option, we have =  $33 + 2 = 35 \neq 37$  and  $33 + 4 = 37 \neq 39$

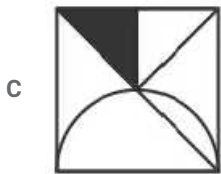
Thus, (33, 37, 39) is the odd one out.

=> Ans - (D)

## SSC CHSL Previous Papers (DOWNLOAD PDF)

### Question 48

If a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure?



Answer: C

#### Explanation:

A horizontal mirror is placed, so the object on the top will appear at the bottom in reverse position and vice-versa.

So the semi circle at top side of square will now appear at bottom, thus the second and last options will be eliminated.

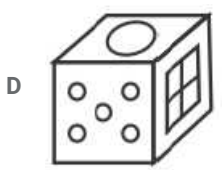
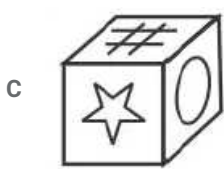
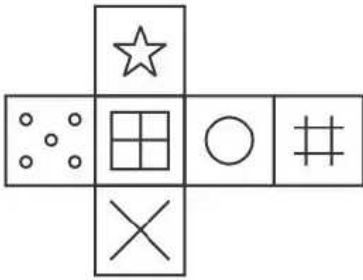
Also, in the question figure at bottom, triangle is facing upwards, hence it will appear at top facing downwards, hence third option is the right image.

=> Ans - (C)



Question 49

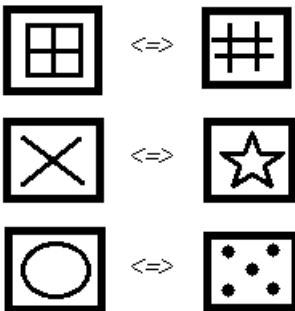
Which of the following cube in the answer figure cannot be made based on the unfolded cube in the question figure ?



Answer: D

Explanation:

When we fold the given figure, the square with a 'window' sign will become the base of the cube and the side with only '#' sign will become top, and thus they will face each other. Similarly, the sides which will face each other will be :



Since, the opposite sides cannot be adjacent in the cube, thus the cube in the last option is not possible.

=> Ans - (D)

Question 50

A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as shown in the given two matrices. The columns and rows of Matrix-I are numbered from 0 to 4 and that of Matrix-II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, for example '11' can be represented by 13, 21 etc and T can be represented by 57, 79 etc. Similarly, you have to identify the set for the word 'Glow'.

Matrix - I					
	0	1	2	3	4
0	E	F	E	D	G
1	L	I	F	H	L
2	F	H	B	F	F
3	G	H	I	M	C
4	I	A	I	D	I

Matrix - II					
	5	6	7	8	9
5	U	Y	T	Q	P
6	Y	R	U	R	Y
7	O	W	Z	Y	T
8	Q	U	S	N	P
9	Z	P	P	O	T

- A 12,88,41,85
- B 41,76,31,79
- C 30,14,75,76
- D 32,85,33,57

Answer: C

Explanation:

- (A) : 12,88,41,85 = FNAQ
  - (B) : 41,76,31,79 = AWHT
  - (C) : 30,14,75,76 = **GLOW**
  - (D) : 32,85,33,57 = IQMT
- => Ans - (C)

**SSC CGL Previous Papers (DOWNLOAD PDF)**

**English**

Instructions

For the following questions answer them individually

Question 51

In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'.

Mark won all of (a) the award for the categories (b) in which he was nominated. (c) No error (d)

- A a
- B b
- C c
- D d

Answer: B

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

**Question 52**

In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'.

You'll spend most of your time gaping (a) in awe at the Kailash temple, but that (b) isn't a only gem that Ellora has to offer. (c) No error (d)

- A a
- B b
- C c
- D d

**Answer: C**

**Question 53**

In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

The lecturer did not see her \_\_\_\_\_.

- A again
- B besides
- C anew
- D nevermore

**Answer: A**

**Question 54**

In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

The power of silence is its ability to mediate the \_\_\_\_\_.

- A excitable
- B irreconcilable
- C excusable
- D fashionable

**Answer: B**

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

**Question 55**

In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word.

**Insuperable**

- A Weak

- B Insurmountable
- C Beatable
- D Unstable

**Answer: B**

**Question 56**

In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word.

**Volition**

- A Dependence
- B Violence
- C Villainy
- D Choice

**Answer: D**

**Question 57**

In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word.

**Officious**

- A Busy
- B Intrusive
- C Rude
- D Timid

**Answer: D**

**SSC CHSL Study Material**

**Question 58**

In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word.

**Grandiose**

- A Noble
- B Impressive
- C Moderate
- D Vast

**Answer: C**

**Question 59**

Rearrange the parts of the sentence in correct order.

The art of letter-writing is

P : something that every educated person

Q : must acquire for practical purposes

R : not merely an ornamental accomplishment, but

A PRQ

B QRP

C RPQ

D RQP

**Answer: C**

**Question 60**

A sentence has been given in Active/Passive Voice. Out of the four given alternatives, select the one which best expresses the same sentence in Passive/Active Voice.

Shah Jahan built the Red Fort.

A The Red Fort is build by Shah Jahan.

B The Red Fort was built by Shah Jahan.

C The Red Fort got build by Shah Jahan.

D The Red Fort built by Shah Jahan.

**Answer: B**

**SSC CHSL Free App**

**Question 61**

A sentence has been given in Direct/Indirect Speech. Out of the four given alternatives, select the one which best expresses the same sentence in Indirect/Direct Speech.

“Cheer up, father, I’ll go and get work somewhere.” said Jane.

A Jane ask her father to cheer up as she will go and get work somewhere.

B Jane asked her father to cheer up, because she would be gone and got work somewhere.

C Jane asks her father to cheer up as she would get job.

D Jane asked her father to cheer up as she would go and get work somewhere.

**Answer: D**

**Question 62**

In the following question, a word has been written in four different ways out of which only one is correctly spelt. Select the correctly spelt word.

A Immediately

- B Immediately
- C Immediately
- D Immediately

Answer: A

### Instructions

In the following passage, some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives.

The written word is necessarily confined \_\_\_\_\_ the things of the understanding because only the understanding has written language; whereas art deals \_\_\_\_\_ ideas of a different mental texture, which words can only vaguely \_\_\_\_\_. However, there are a large number of people who, \_\_\_\_\_ they cannot be said to have experienced in a full sense any works of art, have undoubtedly the impelling desire which a little direction may lead on to a fuller \_\_\_\_\_. And it is to such that books on art are useful.

### Question 63

necessarily confined \_\_\_\_\_ the things of

- A at
- B to
- C so
- D of

Answer: B

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### Question 64

whereas art deals \_\_\_\_\_ ideas of a different

- A if
- B for
- C each
- D with

Answer: D

### Question 65

can only vaguely \_\_\_\_\_. However, there are

- A suggestion
- B suggested
- C suggest
- D suggests

Answer: C

Question 66

people who, \_\_\_\_\_ they cannot be

- A although
- B then
- C if
- D when

Answer: A

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Question 67

lead on to a fuller \_\_\_\_\_. And it is to such

- A appreciate
- B appreciates
- C appreciation
- D appreciator

Answer: C

Instructions

For the following questions answer them individually

Question 68

In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.

**Can't judge a book by its cover**

- A If you love something dearly then you have to protect it.
- B You shouldn't prejudge the value of something, by its outward appearance alone.
- C To make a false opinion without even seeing that person is prejudice.
- D A bad book needs a good cover to make it saleable.

Answer: B

Question 69

In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.

**Back seat driver**

- A A passenger who gives unwanted and/or unneeded directions to the driver.
- B A person who gives unwanted advice is sometimes right.
- C When too many people are controlling a project it is bound to fail.
- D A person who acts as a remote control taking orders from others.

Answer: A

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### Question 70

In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.

Causing annoyance or resentment

- A Congenial
- B Galling
- C Amiable
- D Mellow

Answer: B

### Question 71

In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.

Recklessly extravagant or wasteful in the use of resources

- A Profligate
- B Churlish
- C Harpy
- D Hoarder

Answer: A

### Question 72

In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select "no improvement".

Winds blowing northwards (has took) our kite to a vertiginous height.

- A had take
- B had taken
- C had taking
- D no improvement

Answer: B

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### Question 73

In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select "no improvement".

The battle (had been raging) for some time.



- A have been raging
- B have been raged
- C had being raged
- D no improvement

Answer: D

#### Question 74

The question below consists of a set of labelled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph.

I was able to sense

A-a mildly supercilious tone, despite his

B-was unnerving

C-warmth and friendliness, and it

- A ABC
- B CBA
- C ACB
- D CAB

Answer: C

#### Question 75

In the following question, four words are given out of which one word is correctly spelt. Select the correctly spelt word.

- A sivelling
- B swiveling
- C swivelling
- D sivering

Answer: C

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### General Awareness

#### Instructions

For the following questions answer them individually

#### Question 76

What is poverty gap?

- A the difference between poverty line and actual income level of all those living below that line
- B gap between developed and developing nations
- C gap between the rich and the poor

D gap between infrastructural facilities in developed and developing nations

Answer: A

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Question 77

Which Five Year Plan adopted Indicative Planning in India?

- A Ninth
- B Fourth
- C Third
- D Eighth

Answer: D

Question 78

Which of the following events is NOT considered for the time being of Viceroy Lord Lytton?

- A Afghan War
- B Burma war
- C Arms Act
- D Press Act

Answer: B

Question 79

Which of the following pairs is not correctly matched?

- A Munda Rebellion: 1899
- B Vellore Mutiny: 1806
- C Santhal Rebellion: 1855
- D Chuar Rebellion: 1870

Answer: D

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Question 80

Fausa Magna is a \_\_\_\_\_

- A Volcano
- B V-shaped valley
- C Rift lowland
- D Rift Valley

**Answer: C**

**Question 81**

**Where is the Nandi hills located?**

- A Bihar
- B Gujarat
- C Karnataka
- D Rajasthan

**Answer: C**

**Question 82**

**Who of the following is NOT related to ghazal singing?**

- A Begum Akhtar
- B Malika Pukhraj
- C Penaz Masani
- D Haribhai Varadkar

**Answer: D**

**SSC CHSL Free Mock Test**

**Question 83**

**At which city the 10th South Asia Economic Summit (SAES) was held in November 2017?**

- A Dhaka
- B Kathmandu
- C Colombo
- D Hyderabad

**Answer: B**

**Question 84**

**Who is the first African-American actor to win the Best Actor Award in a Television Drama in the history of Golden Globe?**

- A Gary Oldman
- B James Franco
- C Aziz Ansari
- D Sterling K. Brown

**Answer: D**

Question 85

Bhutan's national language is known as \_\_\_\_\_.

- A Dzongkha
- B Khengkha
- C Tshanglakha
- D Lhotshamkha

Answer: A

## SSC CHSL Previous Papers (DOWNLOAD PDF)

Question 86

Multiplication of equivalent weight and valency of an element is equal to \_\_\_\_\_.

- A Density
- B Relative temperature
- C Atomic weight
- D Atomicity

Answer: C

Question 87

- Plaster of Paris \_\_\_\_\_.

I. changes into gypsum on mixing with water

II. is  $CaSO_4 \cdot 2H_2O$

III. is used for decoration

- A Only I and II
- B Only I and III
- C Only II and III
- D All I, II and III

Answer: B

Question 88

In Indian Parliament, under which condition a house can declare the seat of a member vacant?

- A If member is absent from all meetings of the house for 60 days continuously
- B If member is absent from all meetings of the house for 45 days continuously
- C If member is absent from all meetings of the house for 30 days continuously
- D If member is absent from all meetings of the house for 21 days continuously

Answer: A

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Question 89

There are usually three Parliamentary sessions in India, viz, the Budget session, the Monsoon session and \_\_\_\_\_.

- A the Autumn session
- B the Summer session
- C the Winter session
- D None of these

Answer: C

Question 90

Which of the following is/are the function(s) of bile juice released from the liver?

- I. Make the food coming from stomach alkaline.
- II. Conversion of proteins into amino acids.
- III. Break down of fats into smaller globules.

- A Only I
- B Only II and III
- C Only I and III
- D All I, II and III

Answer: C

Question 91

The wing of a bat and the wing of a bird are the examples of \_\_\_\_\_ limbs.

- A Homogenous
- B Heterogeneous
- C Analogous
- D Homologous

Answer: C

## SSC CGL Free Mock Test (Latest Pattern)

Question 92

In August 2017, National Highway Authority of India (NHAI) launched two mobile apps named 'MyFASTag' and '\_\_\_\_\_'.

- A FASTag Lane
- B FASTag Partner
- C FASTag First

D FASTag Life

Answer: B

Question 93

What is the code name of world's largest amphibious aircraft made by China?

A Kunlong

B Sea Star

C Libelle

D Dornier

Answer: A

Question 94

As per the announcement by the government in August 2017, Banks importing gold and precious metals will have to pay \_\_\_\_\_ tax under the GST.

A 5%

B 10%

C 3%

D 8%

Answer: C

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

Question 95

On 3 January 2018, Lok Sabha passed Ancient Monuments and Archaeological Sites and Remains (Amendment) Bill, 2017. The Bill empowers \_\_\_\_\_ to allow works in a prohibited area.

A State Government

B Central Government

C Local Panchayat

D Municipal Corporation

Answer: B

Question 96

Find the work done (in J) when a charge of 20 C moves across a potential difference of 4 V.

A 5

B 40

C 80

D 10

Answer: C

**Question 97**

The magnitude of the gravitational force will be equal to the \_\_\_\_\_.

- A product of mass and acceleration due to the gravitational force.
- B ratio of mass and acceleration due to the gravitational force.
- C ratio of acceleration due to the gravitational force and mass.
- D reciprocal of product of mass and acceleration due to the gravitational force.

Answer: A

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**Question 98**

The power of \_\_\_\_\_ is expressed in terms of a magnitude on a scale called Richter scale.

- A a tornado
- B a volcano
- C an earthquake
- D a thunderstorm

Answer: C

**Question 99**

Which of the statements given below are correct?

- A) Valentino Rossi won the Motorcycle race 2017 Dutch TT MotoGP.
- B) Germany hosted the 2017 AIBA World Boxing Championships.
- C) In 2017 Pro Kabaddi League, Surjeet Singh played for Bengal Warriors.

- A Only C
- B Both A and C
- C A, B and C
- D None of these

Answer: C

**Question 100**

The \_\_\_\_\_ has emerged as a convenient means of global communication, information sharing and services.

- A e-books
- B Internet
- C Satellites
- D Public telephone booths

Answer: B

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