



## SSC CHSL 17 March 2018 Morning Shift

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**Instructions**

For the following questions answer them individually

**Question 1**

In a company  $\frac{2}{3}$  of the workers are girls,  $\frac{1}{2}$  of the girls are married and  $\frac{1}{3}$  of the married girls live in hostel. If  $\frac{3}{4}$  of the boys are married and  $\frac{2}{3}$  of married boys live in hostel. Calculate the part of workers who don't live in hostel.

A  $\frac{11}{18}$

B  $\frac{15}{18}$

C  $\frac{17}{18}$

D  $\frac{13}{18}$

**Answer:** D

**Explanation:**

Let total number of employees in the company =  $900x$

Total number of girls =  $\frac{2}{3} \times 900x = 600x$

Similarly, total number of boys =  $900x - 600x = 300x$

Married girls =  $\frac{1}{2} \times 600x = 300x$

Married girls who lived in hostel =  $\frac{1}{3} \times 300x = 100x$

=> Girls who did not live in hostel =  $600x - 100x = 500x$

Married boys =  $\frac{3}{4} \times 300x = 225x$

Married boys who lived in hostel =  $\frac{2}{3} \times 225x = 150x$

=> Boys who did not live in hostel =  $300x - 150x = 150x$

∴ Part of workers who don't live in hostel =  $\frac{(500x+150x)}{900x}$

$$= \frac{650}{900} = \frac{13}{18}$$

=> Ans - (D)

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**Question 2**

If a number 657423547X46 is divisible by 11, then find the value of X.

A 7

B 9

C 8

D 6

**Answer:** B

**Explanation:**

For a number 657423547X46 to be divisible by 11, the difference between the sum of numbers at even position and odd position should be either '0' or '11'.

Sum of digits at odd position (starting from right) =  $6 + X + 4 + 3 + 4 + 5 = (22 + X)$

Even positions =  $4 + 7 + 5 + 2 + 7 + 6 = 31$

$$\Rightarrow 22 + X - 31 = 0$$

$$\Rightarrow X = 9$$

$\Rightarrow$  Ans - (B)

### Question 3

Determine the value of  $\frac{x+y}{x+2y}$  when  $\frac{2x+y}{x+4y} = 3$

A  $\frac{3}{5}$

B  $\frac{7}{10}$

C  $\frac{4}{5}$

D  $\frac{10}{9}$

Answer: D

Explanation:

Expression :  $\frac{2x+y}{x+4y} = 3$

$$\Rightarrow 2x + y = 3x + 12y$$

$$\Rightarrow 3x - 2x = y - 12y$$

$$\Rightarrow x = -11y$$

$$\therefore \frac{x+y}{x+2y}$$

$$= \frac{-11y+y}{-11y+2y}$$

$$= \frac{-10y}{-9y} = \frac{10}{9}$$

$\Rightarrow$  Ans - (D)

### Question 4

For what value of  $y$ , if  $x^2 + \frac{1}{12}x + y^2$  is a perfect square ?

A  $\frac{1}{24}$

B  $\frac{1}{12}$

C  $\frac{1}{6}$

D  $\frac{1}{3}$

Answer: A

Explanation:

Expression =  $x^2 + \frac{1}{12}x + y^2$

$$= x^2 + 2(x)\left(\frac{1}{24}\right) + y^2$$

Now to make it a perfect square,  $y^2$  is replaced by  $\left(\frac{1}{24}\right)^2$

$$= (x)^2 + 2(x)\left(\frac{1}{24}\right) + \left(\frac{1}{24}\right)^2$$

$$\Rightarrow y = \frac{1}{24}$$

$\Rightarrow$  Ans - (A)

## SSC CHSL Free Mock Test

### Question 5

Which of the following statement is CORRECT about the tangents?

- A The tangents drawn at the end of diameter of a circle are parallel to each other.
- B The line segment which joins the point of contact of two parallel tangents to the circle is the diameter of the circle.
- C Tangents drawn from the external points subtends equal angle at the center.
- D All option are correct.

**Answer: D**

#### Explanation:

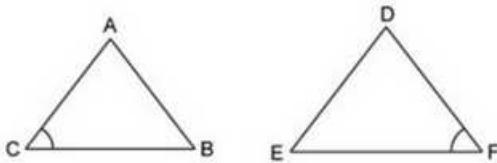
The tangents drawn at the end of diameter of a circle are parallel to each other. Similarly, the line segment which joins the point of contact of two parallel tangents to the circle is the diameter of the circle. Tangents drawn from the external points subtends equal angle at the center.

Thus, all are correct.

$\Rightarrow$  Ans - (D)

### Question 6

Which of the following option is CORRECT for SAS similarity criterion for the triangle ABC and DEF ?



A  $\angle A = \angle D$  and  $\frac{AB}{DE} = \frac{AC}{DF}$

B  $\angle B = \angle E$  and  $\frac{AB}{DE} = \frac{BC}{EF}$

C  $\angle C = \angle F$  and  $\frac{AC}{DF} = \frac{BC}{EF}$

- D All option are correct

**Answer: D**

#### Explanation:

For 2 triangles to follow SAS similarity rule, the angle between the two proportional sides must be equal.

Now, for  $\triangle ABC \sim \triangle DEF$ ,

If  $\angle A = \angle D$ , then  $\frac{AB}{DE} = \frac{AC}{DF}$

If  $\angle B = \angle E$ , then  $\frac{AB}{DE} = \frac{BC}{EF}$

If  $\angle C = \angle F$ , then  $\frac{AC}{DF} = \frac{BC}{EF}$

Thus, all option are correct.

$\Rightarrow$  Ans - (D)

### Question 7

If price of the table is increased by 25%, then a person can buy 25 tables less for Rs.25000. What is the original price (in Rs) of the table?

- A 225
- B 250
- C 200
- D 167

**Answer:** C

#### Explanation:

Let price of a table = Rs.  $100x$

$$\text{Number of tables bought for Rs. 25,000} = \frac{25000}{100x} = \frac{250}{x}$$

$$\text{New price of table} = 100x + \left(\frac{25}{100} \times 100x\right) = \text{Rs. } 125x$$

$$\text{Number of tables bought for Rs. 25,000} = \frac{25000}{125x} = \frac{200}{x}$$

According to ques,

$$\Rightarrow \frac{200}{x} + 25 = \frac{250}{x}$$

$$\Rightarrow \frac{250}{x} - \frac{200}{x} = 25$$

$$\Rightarrow \frac{50}{x} = 25$$

$$\Rightarrow x = \frac{50}{25} = 2$$

$$\therefore \text{Original price} = 2 \times 100 = \text{Rs. } 200$$

$\Rightarrow$  Ans - (C)

## SSC CHSL Previous Papers (DOWNLOAD PDF)

### Question 8

A sum of Rs 125 is divided among u, v and w in such a way that u gets Rs 10 more than v and v gets Rs 5 more than w. What is the ratio of their shares?

- A 9 : 10 : 12
- B 7 : 8 : 10
- C 7 : 10 : 13
- D 3 : 4 : 5

**Answer:** B

#### Explanation:

Let amount with w = Rs.  $k$

$$\Rightarrow \text{Share of v} = \text{Rs. } (k + 5)$$

Similarly, share of u = Rs.  $(k + 15)$

$$\text{Total amount} = k + (k + 5) + (k + 15) = 125$$

$$\Rightarrow 3k = 125 - 20 = 105$$

$$\Rightarrow k = \frac{105}{3} = 35$$

$$\therefore \text{Ratio of shares of } u, v \text{ and } w = 35 : (35 + 5) : (35 + 15)$$

$$= 7 : 8 : 10$$

=> Ans - (B)

#### Question 9

In an alloy, lead and tin are in the ratio of 2 : 3. In the second alloy, the ratio of same elements is 3 : 4. If equal quantities of these two alloy are mixed to form a new alloy, then what will be the ratio of these two elements in the new alloy?

A 1 : 3

B 29 : 41

C 25 : 37

D 31 : 43

Answer: B

#### Explanation:

Ratio of lead and tin in first alloy = 2 : 3

Ratio of lead and tin in second alloy = 3 : 4

Let quantity of both alloys taken = L.C.M. (5,7) = 35 units

$$\Rightarrow \text{Lead in first alloy} = \frac{2}{2+3} \times 35 = 14 \text{ units}$$

$$\text{Tin present in first alloy} = 35 - 14 = 21 \text{ units}$$

Similarly, lead in second alloy = 15 units and tin = 20 units

$$\therefore \text{Ratio of lead and tin in the new alloy} = \frac{(14+15)}{(21+20)}$$

$$= \frac{29}{41}$$

=> Ans - (B)

#### Question 10

Average age of 6 boys is 14 years. Average age of 11 girls is 12 years. What is the average age (in years) of all boys and girls?

A 12.7

B 14.6

C 19.3

D 8.5

Answer: A

#### Explanation:

Average age of 6 boys = 14 years

$$\Rightarrow \text{Total age of 6 boys} = 6 \times 14 = 84 \text{ years}$$

Similarly, total age of 11 girls = 11 × 12 = 132 years

$$\therefore \text{Average age (in years) of all boys and girls} = \frac{(84+132)}{(6+11)}$$

$$= \frac{216}{17} = 12.7$$

=> Ans - (A)

## SSC CGL Previous Papers (DOWNLOAD PDF)

### Question 11

Simple interest on a sum for 10 years is equal to 5% of the principal. In how many years interest will be equal to the principal?

- A 100
- B 150
- C 200
- D 250

Answer: C

### Explanation:

Let principal amount = Rs.  $100x$

$$\Rightarrow \text{Simple interest} = \frac{5}{100} \times 100x = \text{Rs. } 5x$$

Let rate of interest =  $r\%$  and time period = 10 years

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

$$\Rightarrow \frac{100x \times r \times 10}{100} = 5x$$

$$\Rightarrow 10r = 5$$

$$\Rightarrow r = \frac{5}{10} = 0.5\%$$

Let the interest will be equal to the principal in =  $t$  years at 0.5% rate

$$\Rightarrow \frac{100x \times 0.5 \times t}{100} = 100x$$

$$\Rightarrow t = \frac{100}{0.5} = 200 \text{ years}$$

$\Rightarrow$  Ans - (C)

### Question 12

The ratio of selling price to the cost price is 21 : 16. What is the profit percentage?

- A 35.75
- B 21.75
- C 27.75
- D 31.25

Answer: D

### Explanation:

Ratio of selling price to the cost price = 21 : 16

Let Cost price =  $x = 16$  and selling price =  $y = 21$

$$\Rightarrow \text{Profit \%} = \frac{(y-x)}{x} \times 100$$

$$= \frac{(21-16)}{16} \times 100$$

$$= \frac{50}{16} = 31.25\%$$

$\Rightarrow$  Ans - (D)

Question 13

Dinesh purchases 10 dozens of apples at the rate of Rs 180 per dozen. He sold each one of them at the rate of Rs 19.5. What is the profit (in percentage) of Dinesh?

- A 30
- B 15
- C 18
- D 25

Answer: A

Explanation:

Cost of 1 dozen apples = Rs. 180

=> Cost of 10 dozen apples =  $180 \times 10 = \text{Rs. } 1800$

=> Cost of 1 apple =  $\frac{1800}{10 \times 12} = \text{Rs. } 15$

Selling price of 1 apple = Rs. 19.5

=> Profit % =  $\frac{(19.5-15)}{15} \times 100$

=  $1.5 \times 20 = 30\%$

=> Ans - (A)

## SSC CGL Free Mock Test (Latest Pattern)

Question 14

If  $x = 4 + \sqrt{15}$ , then what is the value of  $[x^2 + (\frac{1}{x^2})]$ ?

- A 62
- B 64
- C 34
- D 36

Answer: A

Explanation:

Given :  $x = 4 + \sqrt{15}$  -----(i)

=>  $\frac{1}{x} = \frac{1}{4 + \sqrt{15}}$

=>  $\frac{1}{x} = \frac{1}{4 + \sqrt{15}} \times \frac{4 - \sqrt{15}}{4 - \sqrt{15}}$

=>  $\frac{1}{x} = \frac{4 - \sqrt{15}}{(16 - 15)} = 4 - \sqrt{15}$  -----(ii)

To find :  $[x^2 + (\frac{1}{x^2})]$

=  $(x + \frac{1}{x})^2 - 2(x)(\frac{1}{x})$

Substituting values from equations (i) and (ii), we get :

=  $[(4 + \sqrt{15}) + (4 - \sqrt{15})]^2 - 2$

=  $(8)^2 - 2 = 64 - 2 = 62$



=> Ans - (A)

**Question 15**

Some masons promised to do a work in 10 days but 8 of them were absent and remaining did the work in 18 days. What was the original number of masons?

- A 10
- B 21
- C 15
- D 18

**Answer: D**

**Explanation:**

Let original number of masons =  $x$

Using,  $M_1D_1 = M_2D_2$

$$\Rightarrow x \times 10 = (x - 8) \times 18$$

$$\Rightarrow 10x = 18x - 144$$

$$\Rightarrow 18x - 10x = 144$$

$$\Rightarrow x = \frac{144}{8} = 18$$

$\therefore$  Original number of masons = **18**

=> Ans - (D)

**Question 16**

A boat goes 8 km upstream and 12 km downstream in 7 hours. It goes 9 km upstream and 18 km downstream in 9 hours. What is the speed (in km/h) of the boat in still water?

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

**Answer: D**

**Explanation:**

Let speed of boat in still water =  $x$  km/hr and speed of current =  $y$  km/hr

According to ques,

$$\Rightarrow \frac{12}{x+y} + \frac{8}{x-y} = 7 \text{ -----(i)}$$

$$\text{and } \frac{18}{x+y} + \frac{9}{x-y} = 9 \text{ -----(ii)}$$

Applying the operation :  $3 \times (i) - 2 \times (ii)$

$$\Rightarrow \frac{24}{x-y} - \frac{18}{x-y} = 21 - 18$$

$$\Rightarrow \frac{6}{x-y} = 3$$

$$\Rightarrow x - y = \frac{6}{3} = 2 \text{ -----(iii)}$$

Substituting it in equation (i),  $\Rightarrow \frac{12}{x+y} + \frac{8}{2} = 7$

$$\Rightarrow x+y = 7 - 4 = 3$$

$$\Rightarrow x + y = \frac{12}{3} = 4 \text{ -----(iv)}$$

Now, adding equations (iii) and (iv), we get:

$$\Rightarrow 2x = 2 + 4 = 6$$

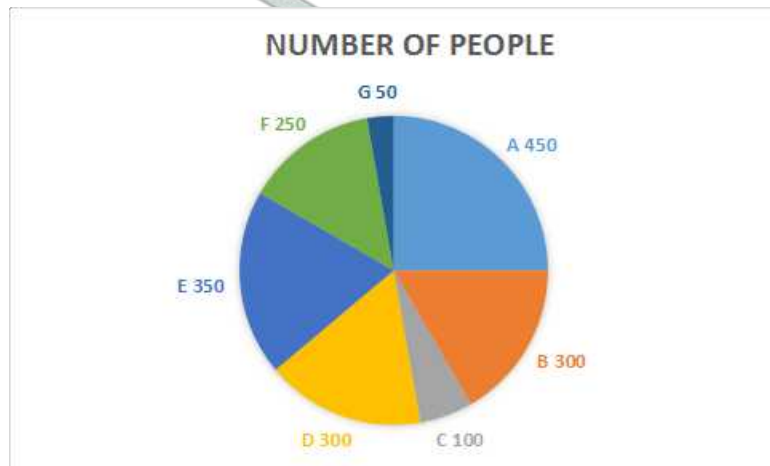
$$\Rightarrow x = \frac{6}{2} = 3$$

$\Rightarrow$  Ans - (D)

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

### Instructions

The pie chart shows the results of an online survey which asked people about their favourite movie. Study the diagram and answer the following questions.



### Question 17

Which movie is the favourite of most people surveyed?

A F

B D

C A

D E

Answer: C

### Explanation:

Movie A is the favourite of most people surveyed = 450

$\Rightarrow$  Ans - (C)

### Question 18

What is the total numbers of people who have responded to the survey?

A 1800

B 2100

C 2400

D 2000

Answer: A

**Explanation:**

Total numbers of people who have responded to the survey

$$= 450 + 300 + 100 + 300 + 350 + 250 + 50$$

$$= 1800$$

=> Ans - (A)

**Question 19**

The measure of the central angle of the sector representing number of people whose favourite movie is C is \_\_\_\_\_ degrees.

A 15

B 20

C 30

D 10

**Answer: B**

**Explanation:**

Number of people whose favourite movie is C = 100

Total numbers of people who have responded to the survey

$$= 450 + 300 + 100 + 300 + 350 + 250 + 50 = 1800$$

$$\Rightarrow \text{Required central angle} = \frac{100}{1800} \times 360^\circ$$

$$= \frac{100}{5} = 20^\circ$$

=> Ans - (B)

**SSC CHSL Study Material**

**Question 20**

Respondents who say their favourite movie is D and those who say their favourite movie is B constitute what percent of the total respondents?

A 30

B 33.33

C 40

D 25

**Answer: B**

**Explanation:**

Number of people whose favourite movies are D and B = 300 + 300 = 600

Total numbers of people who have responded to the survey

$$= 450 + 300 + 100 + 300 + 350 + 250 + 50 = 1800$$

$$\Rightarrow \text{Required \%} = \frac{600}{1800} \times 100$$

$$= \frac{100}{3} = 33.33\%$$

=> Ans - (B)

**Instructions**

For the following questions answer them individually

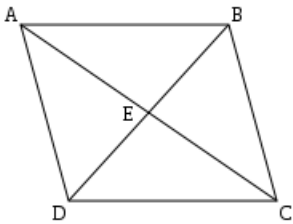
**Question 21**

The perimeter and the length of one of the diagonals of a rhombus is 26 cm and 5 cm respectively. Find the length of its other diagonal (in cm).

- A 6
- B 12
- C 24
- D 18

**Answer: B**

**Explanation:**



Given : ABCD is a rhombus and perimeter(ABCD) = 26 cm and BD = 5 cm

To find : AC = ?

Solution : Diagonals of a rhombus bisect each other at right angle.

$$\Rightarrow BE = \frac{5}{2} = 2.5 \text{ cm and side of rhombus} = AB = \frac{26}{4} = 6.5 \text{ cm}$$

Thus, in right  $\triangle AEB$ ,

$$\Rightarrow (AE)^2 = (AB)^2 - (BE)^2$$

$$\Rightarrow (AE)^2 = (6.5)^2 - (2.5)^2$$

$$\Rightarrow (AE)^2 = 42.25 - 6.25 = 36$$

$$\Rightarrow AE = \sqrt{36} = 6 \text{ cm}$$

$$\therefore AC = 2 \times 6 = 12 \text{ cm}$$

$\Rightarrow$  Ans - (B)

**Question 22**

If the area of a semi-circle is  $1925\text{cm}^2$ , then find its radius (in cm).

- A 70
- B 31
- C 62
- D 35

**Answer: D**

**Explanation:**

Let radius of the semi-circle =  $r$  cm

$$\Rightarrow \text{Area} = \frac{1}{2} \times \pi r^2 = 1925$$

$$\Rightarrow \frac{1}{2} \times \frac{22}{7} \times r^2 = 1925$$

$$\Rightarrow r^2 = 1925 \times \frac{7}{11} = 1225$$

$$\Rightarrow r = \sqrt{1225} = 35 \text{ cm}$$

$\Rightarrow$  Ans - (D)

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**Question 23**

The total surface area of a cube is  $253.5 \text{ cm}^2$ . Find its side (in cm).

A 7.5

B 5.5

C 6.5

D 8.5

**Answer:** C

**Explanation:**

Let edge of cube =  $a$  cm

$$\text{Total surface area} = 6a^2 = 253.5$$

$$\Rightarrow a^2 = \frac{253.5}{6} = 42.25$$

$$\Rightarrow a = \sqrt{42.25} = 6.5 \text{ cm}$$

$\Rightarrow$  Ans - (C)

**Question 24**

$\triangle DEF$  is right angled at E. If  $m\angle F = 30^\circ$ , then find the value of  $(\sin D - \frac{1}{3})$ .

A  $\frac{-1}{2\sqrt{3}}$

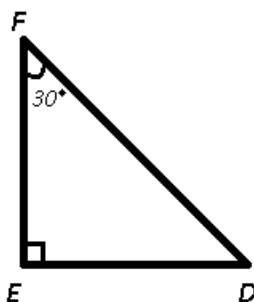
B  $\frac{(3\sqrt{3}-2)}{6}$

C  $\frac{(\sqrt{2}-\sqrt{3})}{\sqrt{6}}$

D  $\frac{(2\sqrt{2}-1)}{\sqrt{2}}$

**Answer:** B

**Explanation:**



$$\text{Sum of angles of } \triangle DEF = \angle D + \angle E + \angle F = 180^\circ$$

$$\Rightarrow \angle D + 90^\circ + 30^\circ = 180^\circ$$

$$\Rightarrow \angle D = 180^\circ - 120^\circ = 60^\circ$$

To find :  $(\sin D - \frac{1}{3})$

$$= \sin(60^\circ) - \frac{1}{3}$$

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

$$= \frac{(3\sqrt{3}-2)}{6}$$

=> Ans - (B)

### Question 25

$\triangle DEF$  is right angled at E. If  $\operatorname{cosec} D = \frac{25}{24}$ , then what is the value of  $\cos F$  ?

A  $\frac{25}{7}$

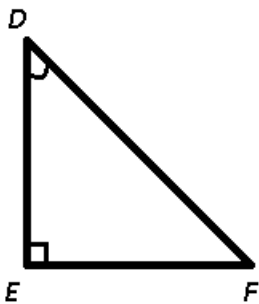
B  $\frac{24}{7}$

C  $\frac{24}{25}$

D  $\frac{7}{24}$

Answer: C

Explanation:



Given :  $\operatorname{cosec} D = \frac{25}{24}$

Also,  $\operatorname{cosec} D = \frac{DF}{EF} = \frac{25}{24}$

Let  $DF = 25$  cm and  $EF = 24$  cm

To find :  $\cos F = \frac{EF}{DF}$

$$= \frac{24}{25}$$

=> Ans - (C)

## Daily Free SSC Practice Set

### Reasoning

#### Instructions

For the following questions answer them individually

#### Question 26

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

Shout : Speak :: ? : ?

A Petrol : Fuel

- B Rage : Anger
- C Drown : Water
- D Famous : People

Answer: B

**Explanation:**

Expression = Shout : Speak :: ? : ?

The first is more aggressive form of second, i.e. shout is a louder form of speaking, similarly rage is uncontrollable anger.

=> Ans - (B)

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

**Question 27**

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

46 : 48 :: 61 : ?

- A 67
- B 71
- C 65
- D 63

Answer: D

**Explanation:**

Expression = 46 : 48 :: 61 : ?

The pattern followed is =  $n : n + 2$

Eg :-  $46 + 2 = 48$

Similarly,  $61 + 2 = 63$

=> Ans - (D)

**Question 28**

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

VOT : SLQ :: HRX : ?

- A EMS
- B KOC
- C EOU
- D RVH

Answer: C

**Explanation:**

Expression = VOT : SLQ :: HRX : ?

The pattern followed is :

V	O	T
(-3)	(-3)	(-3)
S	L	Q

Similarly, for HRX : EOU

H	R	X
(-3)	(-3)	(-3)
E	O	U

=> Ans - (C)

#### Question 29

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

- A Car - Road
- B Water - Ship
- C Track - Train
- D Sky - Aeroplane

**Answer:** A

#### Explanation:

First is the medium of transportation of the transport given in second, hence **Car - Road** is the odd one out.

=> Ans - (A)

## 1500+ Very Important Free SSC Solved Questions

#### 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 12 - 24
- B 14 - 28
- C 44 - 88
- D 33 - 88

**Answer:** D

#### Explanation:

Second number is double the first number.

$$12 \times 2 = 24$$

$$14 \times 2 = 28$$

$$44 \times 2 = 88$$

$$33 \times 2 = 66 \neq 88$$

=> Ans - (D)

#### Question 31

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



- A LFZ
- B PJC
- C SMG
- D XRL

**Answer: B**

**Explanation:**

(A) : L (-6 letters) = F (-6 letters) = Z

(B) : P (-6 letters) = J (-7 letters) = C

(C) : S (-6 letters) = M (-6 letters) = G

(D) : X (-6 letters) = R (-6 letters) = L

=> Ans - (B)

**Question 32**

Arrange the given words in the sequence in which they occur in the dictionary.

1. Lighten
2. Liftoff
3. Lemonade
4. Leisure
5. Ladies

- A 32451
- B 21345
- C 13245
- D 54321

**Answer: D**

**Explanation:**

As per the order of dictionary :

= Ladies -> Leisure -> Lemonade -> Liftoff -> Lighten

≡ 54321

=> Ans - (D)

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**Question 33**

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

23, 24, 26, 27, 29, ?

- A 31
- B 30
- C 33
- D 32

**Answer: B**

**Explanation:**

'1' and '2' are alternatively added.

$$23 + 1 = 24$$

$$24 + 2 = 26$$

$$26 + 1 = 27$$

$$27 + 2 = 29$$

$$29 + 1 = 30$$

=> 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.

PCM, REO, TGQ, VIS, ?

A XKU

B WLW

C XLV

D WKU

**Answer: A**

**Explanation:**

Series : PCM, REO, TGQ, VIS, ?

The pattern followed in each letter of the terms is :

1st letter : P (+2 letters) = R (+2 letters) = T (+2 letters) = V (+2 letters) = X

2nd letter : C (+2 letters) = E (+2 letters) = G (+2 letters) = I (+2 letters) = K

3rd letter : M (+2 letters) = O (+2 letters) = Q (+2 letters) = S (+2 letters) = U

Thus, missing term = **XKU**

=> Ans - (A)

**Question 35**

The ratio of the present ages of Reena and her husband is 4 : 5. 8 years from now, ages of her husband and her son will be in the ratio 24 : 9. If the present age of Reena is 32 years, then what will be her son's present age (in years)?

A 12

B 15

C 10

D 8

**Answer: C**

**Explanation:**

Reena's present age = 32 years

Ratio of present ages of Reena and her husband = 4 : 5

=> Reena's husband's present age =  $\frac{5}{4} \times 32 = 40$  years

Her husband's age 8 years from now =  $40 + 8 = 48$  years

Ratio of her husband's age and her son's age 8 years from now =  $24 : 9$

=> Son's age 8 years from now =  $\frac{9}{24} \times 48 = 18$  years

∴ Son's present age =  $18 - 8 = 10$  years

=> Ans - (C)

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### Question 36

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

#### Preparation

A Paper

B Ration

C Part

D People

Answer: D

#### Explanation:

The word PREPARATION does not contain any 'L', thus the term **People** cannot be formed.

=> Ans - (D)

### Question 37

In a certain code language, "PROP" is written as "67" and "RATE" is written as "46". How is "MOCK" written in that code language?

A 41

B 40

C 42

D 44

Answer: D

#### Explanation:

The letters are numbered based on their position according to the English alphabetical order. A=1, B=2, C=3, D=4 and so on. The numbers are then added and '2' is added at the end to get the final output.

Eg :- PROP =  $(16 + 18 + 15 + 16) + 2 = 65 + 2 = 67$

RATE =  $(18 + 1 + 20 + 5) + 2 = 44 + 2 = 46$

Similarly, MOCK =  $(13 + 15 + 3 + 11) + 2 = 42 + 2 = 44$

=> Ans - (D)

### Question 38

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

$35 - 12 + 10 \times 50 \div 14 = ?$

- A 31
- B 6
- C 27
- D 15

**Answer: B**

**Explanation:**

Expression :  $35 - 12 + 10 \times 50 \div 14 = ?$

$$\equiv 35 \times 12 \div 10 - 50 + 14$$

$$= (7 \times 6) - 36$$

$$= 42 - 36 = 6$$

=> Ans - (B)

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**Question 39**

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

$$16 \div 4 \times 8 - 10 + 14 = 12$$

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

**Answer: B**

**Explanation:**

Expression :  $16 \div 4 \times 8 - 10 + 14 = 12$

(A) : x and -

$$\text{L.H.S.} = 16 \div 4 - 8 \times 10 + 14$$

$$= 4 - 80 + 14 = -62 \neq \text{R.H.S.}$$

(B) :  $\div$  and x

$$\text{L.H.S.} = 16 \times 4 \div 8 - 10 + 14$$

$$= (2 \times 4) + 4 = 12 = \text{R.H.S.}$$

=> Ans - (B)

**Question 40**

If  $19!3 = 32$ ,  $13!4 = 18$  and  $12!2 = 20$ , then find the value of  $17!3 = ?$

- A 16
- B 28
- C 4
- D 8

**Answer: B**

**Explanation:**

Given :  $19!3 = 32$ ,  $13!4 = 18$  and  $12!2 = 20$

If we replace '!' with '-', and multiply the difference by 2, we get the desired result.

Eg :-  $(19 - 3) \times 2 = 31$

and  $(13 - 4) \times 2 = 18$  and  $(12 - 2) \times 2 = 20$

Similarly,  $(17 - 3) \times 2 = 28$

=> Ans - (B)

**Question 41**

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

**XZYXYXYXY, XYZYXYXY, YXZXYXY, XYXZYXYXY, XYXYXZYXY, \_\_\_\_\_.**

**A** ZXYXYXYXY

**B** XZYXYXYXY

**C** XYZYXYXY

**D** XYXYXZYXY

**Answer: D**

**Explanation:**

Expression : XZYXYXYXY, XYZYXYXY, YXZXYXY, XYXZYXYXY, XYXYXZYXY, \_\_\_\_\_.

The pattern followed is that in each term there are 4 combinations of 'XY' and in each term, the position of 'Z' is shifting one place to the right starting from second position.

Thus, in the missing term, the third last term will be 'Z' = XYXYXZYXY

=> Ans - (D)

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**Question 42**

**Two navy ships start from the same port. Ship A travels 23 km West, then turns to its left and travels 19 km. Ship B travels 19 km West, then turns North and travels 5 km, then turns to its left and travels 4 km. Where is ship A with respect to ship B?**

**A** 14 km South

**B** 24 km North

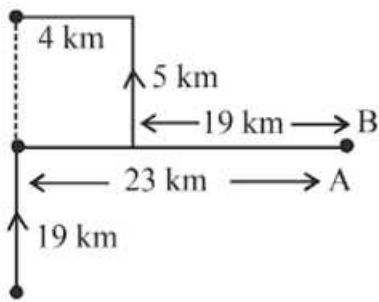
**C** 24 km South

**D** 14 km North

**Answer: C**

**Explanation:**

Let the two navy ships start from the same port A. Ship A travels 23 km West, then turns to its left and travels 19 km. Ship B travels 19 km West, then turns North and travels 5 km, then turns to its left and travels 4 km.



=> Distance between both ships =  $19 + 5 = 24$  km

∴ Ship A is **24 km south** with respect to ship B.

=> Ans - (C)

#### 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:** All scissors are knives

**Statement II:** Some blades are scissors

**Conclusion I:** Some knives are blades

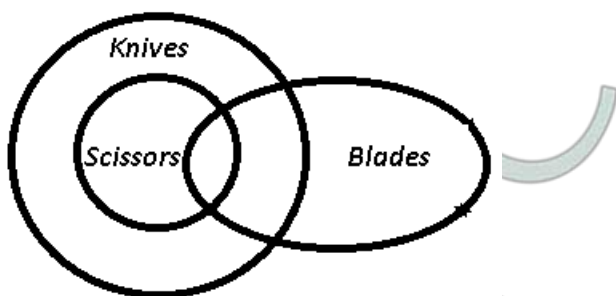
**Conclusion II:** All blades are knives

- 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:** A

**Explanation:**

The venn diagram for above statements is :



Conclusion I: Some knives are blades = true

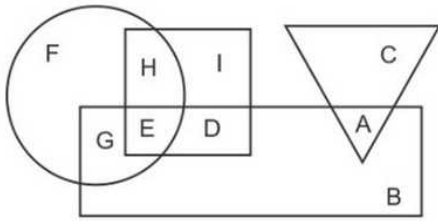
Conclusion II: All blades are knives = false

Thus, only conclusion I follows.

=> Ans - (A)

Question 44

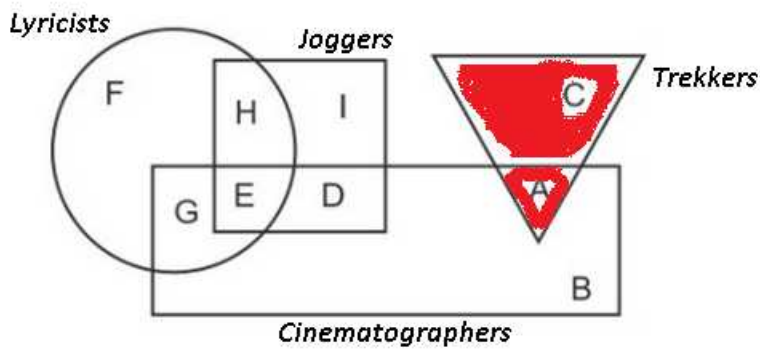
In the following figure, rectangle represents Cinematographers, circle represents Lyricists, triangle represents Trekkers and square represents Joggers. Which set of letters represents Trekkers who are not Joggers?



- A ID
- B AD
- C CI
- D AC

Answer: D

Explanation:



Trekkers who are not Joggers are represented by = AC

=> Ans - (D)

### 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.

HOT, GMQ, FKN, EIK, ?

- A CHI
- B CGH
- C DGH
- D DHI

Answer: C

Explanation:

Series : HOT, GMQ, FKN, EIK, ?

The pattern followed in each letter of the terms is :

1st letter : H (-1 letter) = G (-1 letter) = F (-1 letter) = E (-1 letter) = D

2nd letter : O (-2 letters) = M (-2 letters) = K (-2 letters) = I (-2 letters) = G

3rd letter : T (-3 letters) = Q (-3 letters) = N (-3 letters) = K (-3 letters) = H

Thus, missing term = **DGH**

=> Ans - (C)

#### Question 46

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

93, 100, 107, 114, ?, 128

A 120

B 121

C 123

D 122

Answer: B

#### Explanation:

'7' is added to all the numbers.

$$93 + 7 = 100$$

$$100 + 7 = 107$$

$$107 + 7 = 114$$

$$114 + 7 = \mathbf{121}$$

$$121 + 7 = 128$$

=> Ans - (B)

#### 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 (10, 20, 30)

B (12, 22, 32)

C (27, 37, 47)

D (19, 29, 49)

Answer: D

#### Explanation:

The numbers are of the form :  $(x, x + 10, x + 20)$

But in the last option, we have =  $19 + 20 = 39 \neq 49$

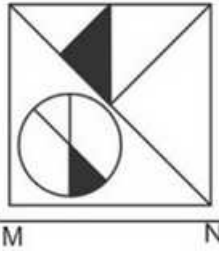
Thus, (19, 29, 49) is the odd one out.

=> Ans - (D)



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: A

**Explanation:**

When a mirror is placed on the line MN,

The facing of the figure to the top and bottom direction changes to the opposite direction in the mirror image (top facing changes to bottom and vice versa). There won't be change in left and right direction.

The circle which is on the bottom side will be on the top side similarly in the mirror image.

The dark part of the circle which is facing bottom right will face top right in the mirror image.

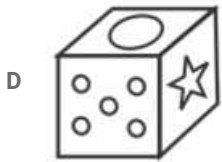
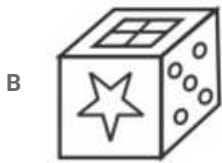
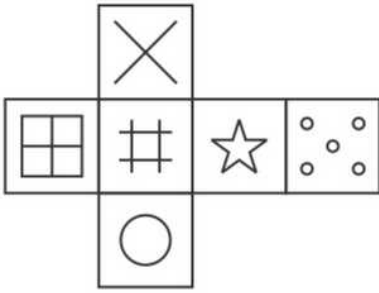
∴ The mirror image of the given figure is



Hence, the correct answer is Option A

Question 49

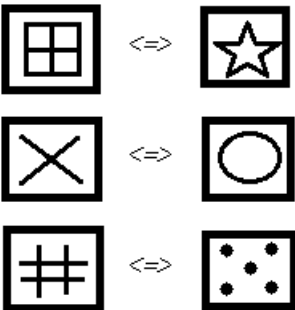
Which of the following cube in the answer figure cannot be made based on the unfolded cube in the question figure?



Answer: B

Explanation:

When we fold the given figure, the square with a '#' sign will become the base of the cube and the side with only '5 dots' 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 second option is not possible.

=> Ans - (B)

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 'D' can be represented by 31, 43 etc and 'Mr' can be represented by 76, 57 etc. Similarly, you have to identify the set for the word 'SKIP'.

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

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

- A 41,97,23,65
- B 44,86,11,56
- C 21,98,31,86
- D 85,13,24,56

Answer: D

Explanation:

- (A) : 41,97,23,65 = KXCO
  - (B) : 44,86,11,56 = JVHP
  - (C) : 21,98,31,86 = CZDV
  - (D) : 85,13,24,56 = **SKIP**
- => Ans - (D)

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**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'.

He cooked the (a) dinner and (b) than put the radio on. (c) No error (d)

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

Answer: C

**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'.

Proteins are providers of energy in an emergency, (a) and are primarily used as building blocking (b) for growth and repair of many body tissues. (c) No error (d)

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

**Answer: B**

**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.

Anita \_\_\_\_\_ her work by the time he came.

- A had done
- B has done
- C is done
- D would done

**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.

He won't pay the rent \_\_\_\_\_ how many times his landlord berates him.

- A seeing as
- B however
- C although
- D no matter

**Answer: D**

## 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.

**Hackneyed**

- A Tired

- B Fresh
- C Uncommon
- D New

**Answer: A**

**Question 56**

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

**Accede**

- A Admit
- B Submit
- C Grown
- D Consent

**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.

**Inundate**

- A Engulf
- B Immerse
- C Overrun
- D Underwhelm

**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.

**Wholesome**

- A Impure
- B Healthy
- C Pure
- D Safe

**Answer: A**

Question 59

Rearrange the parts of the sentence in correct order.

The invention of the turbine by

P : the beginning of jet transport

Q : Ohain in Germany in 1939 signalled

R : Frank Whittle in England and Hans von

A QRP

B RQP

C PQR

D RPQ

Answer: B

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.

One can achieve reward by hard work.

A Reward could be achieved by hard work.

B Reward is needed for hard work.

C Reward is achieved by hard work.

D Reward can be achieved by hard work.

Answer: D

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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.

She said, "Let us wait for the seat"

A She proposed that they should wait for the seat.

B She proposed that they could wait for the seat.

C She proposed to wait for the seat.

D She proposed let us wait for seat.

Answer: A

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 Acquaintance

- B Acquaintance
- C Acquaintence
- D Akquaintance

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 \_\_\_\_\_ conversation-starter cultivated by years of ostentatious \_\_\_\_\_ society is a simple 'how do you do?' followed by a polite shaking of hands and an optional comment on the weather. But aside \_\_\_\_\_ the mental trauma this ritual causes to those unfortunate souls who suffer from clammy hands, it also doesn't provide much incentive to go on. Fascinating as the weather can be from time \_\_\_\_\_ time, one can speak only so much about the \_\_\_\_\_ of the sun and express sympathy towards the depressions the Bay of Bengal faces.

**Question 63**

The \_\_\_\_\_ conversation-starter cultivated

- A basic
- B base
- C basically
- D basics

Answer: A

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**Question 64**

years of ostentatious \_\_\_\_\_ society is a simple

- A humanity
- B humanly
- C humanely
- D human

Answer: D

**Question 65**

But aside \_\_\_\_\_ the mental trauma

- A form
- B from
- C of
- D for

Answer: B

Question 66

from time \_\_\_\_\_ time, one

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

Answer: A

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Question 67

much about the \_\_\_\_\_ of the sun

- A brightness
- B bright
- C brightly
- D brighter

Answer: A

**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.

**Back to the drawing board**

- A A creative person will always find a solution to any problem.
- B An artist will express his feelings by drawing.
- C It is better to work on a fanciful idea bound to fail than have no ideas at all.
- D Used to indicate that an idea has been unsuccessful and that a new one must be devised.

Answer: D

Question 69

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

**In cahoots with**

- A A marriage made in heaven.
- B A group of criminals.
- C With lot of determination.
- D In an alliance or partnership with.



Answer: D

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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.

**Acutely distressing**

- A Palatable
- B Harrowing
- C Gratifying
- D Suave

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.

**Revel in and make the most of something pleasing**

- A Abhor
- B Bask
- C Fret
- D Edgy

Answer: B

### 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".

This stove (had) a flat kerosene tank at the bottom.

- A have
- B has
- C has had
- D no improvement

Answer: D

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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".

By then running water and electricity (had arrive), making the well and the lamp post redundant.

- A had arriving
- B had arrived
- C arriving
- D no improvement

Answer: B

#### 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.

- A lever enabled you
- A-controlled the burner flame
- B-to raise or lower the wicks
- C-and this is how you

- A BAC
- B ACB
- C BCA
- D ABC

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 megalomaniac
- B megalomeniac
- C megallomaniac
- D megallomeniac

Answer: A

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### General Awareness

#### Instructions

For the following questions answer them individually

#### Question 76

Generally unemployment in a developing country takes place because of \_\_\_\_\_.

- A lack of complementary factors of production
- B seasonal factors
- C lack of effective demand

D switch over from one job to another

Answer: A

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### Question 77

The Ex-officio Secretary of NDC is \_\_\_\_\_.

- A Vice-Chairman of Planning Commission
- B General Secretary of Lok Sabha
- C Secretary of Finance Ministry
- D Secretary of Planning Commission

Answer: D

### Question 78

Who of the following founded the Vikramashila University?

- A Devapala I
- B Dharmapala
- C Gopala
- D Devapala II

Answer: B

### Question 79

Which Governor General of India used to write poetry with the name of "Owen Meredith"?

- A Lord Dalhousie
- B Lord Ripon
- C Lord Lytton
- D Lord Canning

Answer: C

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### Question 80

Which of the following pairs is NOT correctly matched?

- A Etna : Italy
- B Fujiyama : Japan
- C Popa : Myanmar
- D Krakatau : Malaysia

**Answer: D**

**Question 81**

The highest mountain peak of Chhotanagpur Plateau is \_\_\_\_\_.

- A Dhoopgarh
- B Pachmarhi
- C Parasnath
- D Mahabaleshwar

**Answer: C**

**Question 82**

Begum Akhtar is associated to which art form?

- A Dance
- B Painting
- C Music
- D Folk Art

**Answer: C**

**SSC CHSL Free Mock Test**

**Question 83**

Which of the following countries has built the world's biggest air purifier, a 328 feet high tower, to combat air pollution?

- A Germany
- B India
- C Australia
- D China

**Answer: D**

**Question 84**

Who among the following writers won the 2017 Sahitya Academy Award for Hindi literature?

- A Nirajan Mishra
- B Ramesh Kuntal Megh
- C Uday Narayana Singh
- D Shrikant Deshmukh

**Answer: B**

**Question 85**

**Which is the largest City of Nepal?**

- A Hetauda
- B Pokhara
- C Biratnagar
- D Kathmandu

**Answer: D**

## SSC CHSL Prevoius Papers (DOWNLOAD PDF)

**Question 86**

**Elements having same atomic numbers but different mass number are called \_\_\_\_\_.**

- A isotones
- B Isotopes
- C isotopes
- D isobar

**Answer: B**

**Question 87**

**Washing soda is used \_\_\_\_\_.**

- I. for removing permanent hardness of water
- II. for disinfecting drinking water
- III. as a cleaning agent for domestic purpose

- 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**

**What are the minimum qualifications of a person to become a member of Lok Sabha?**

- I. Must be a citizen of India.
- II. Must not be less than 25 years of age.
- III. Must hold an office of profit under Union Government.

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

Answer: A

## SSC CGL Previous Papers (DOWNLOAD PDF)

Question 89

The India Parliament should meet at least \_\_\_\_\_.

- A Once a year
- B Twice a year
- C Thrice a year
- D Four times in a year

Answer: B

Question 90

Which is the longest part of alimentary canal?

- A Oesophagus
- B Small intestine
- C Large intestine
- D Buccal cavity

Answer: B

Question 91

Organs having different structure and components but perform similar functions are called \_\_\_\_\_.

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

Answer: A

## SSC CGL Free Mock Test (Latest Pattern)

Question 92

In August 2017, Environment Ministry of India launched 'Gaj Yatra' to protect \_\_\_\_\_.

- A Tigers
- B Elephants
- C Lions
- D Rhino

Answer: B

**Question 93**

Which country has made the world's largest amphibious aircraft named AG600?

- A United States of America
- B Russia
- C China
- D Saudi Arabia

**Answer: C**

**Question 94**

In August 2017, which of the following launched world's first future contracts in 'diamonds'?

- A Indian Commodity Exchange (ICEX)
- B Multi Commodity Exchange (MCEX)
- C National Association of Securities Dealers Automated Quotations (NASDAQ)
- D None of these

**Answer: A**

## 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 seeks to permit construction in 'Prohibited areas' for \_\_\_\_\_.

- A Private Purposes
- B Public Purposes
- C Both public and private Purposes
- D None of these

**Answer: B**

**Question 96**

What is the resistance (in  $\Omega$ ) of an electrical component if a current of 0.2 A passes through it on application of 8 V of potential difference across it?

- A 40
- B 1.6
- C 80
- D 3.2

**Answer: A**

**Question 97**

The value of acceleration due to gravity (g) \_\_\_\_\_.

- A is greater at the poles than at the equator
- B is lesser at the poles than at the equator
- C is greater at the North pole than at the South pole
- D is greater at the South pole than at the North pole

**Answer: A**

## SSC CHSL Study Material

**Question 98**

Seismic waves are recorded by an instrument called the \_\_\_\_\_.

- A seismograph
- B odograph
- C isograph
- D lithograph

**Answer: A**

**Question 99**

Which of the statements given below are correct?

- A) In 2017, Dani Pedrosa raced in MotoGP for Yamaha.
- B) Alexander Zverev won the Tennis 2017 Miami Open Men's Singles.
- C) Viktor Axelsen won the Badminton 2017 BWF Super Series Finals Men's Singles.

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

**Answer: B**

**Question 100**

Computer networks constituting the internet are connected by telephones, underwater cables and \_\_\_\_\_.

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

**Answer: D**



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