



## SSC CHSI 14 March 2018 Evening Shift

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**Instructions**

For the following questions answer them individually

**Question 1**

Find the average of first 30 multiples of 7.

- A 94.8
- B 99.6
- C 104.4
- D 108.5

**Answer:** D

**Explanation:**

First thirty multiples of 7 will form an arithmetic progression : 7,14,21,.....,210

First term,  $a = 7$  and common difference,  $d = 7$

$$\text{Sum of } n \text{ terms} = \frac{n}{2}(a + l)$$

$$\Rightarrow S_{30} = \frac{30}{2}(7 + 210)$$

$$= 15 \times 217$$

$$\text{Now, average of 30 terms} = \frac{15 \times 217}{30}$$

$$= \frac{217}{2} = 108.5$$

$\Rightarrow$  Ans - (D)

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**Question 2**

Calculate the value of  $(5 - \sqrt{5})^{\sqrt{5}}$ , if  $\sqrt{5} = 2.236$

- A 0.809
- B 0.89
- C 0.089
- D 0.807

**Answer:** A

**Explanation:**

Given :  $\sqrt{5} = 2.236$

To find :  $(5 - \sqrt{5})^{\sqrt{5}}$

$$= \sqrt{5}(\sqrt{5}-1) = \frac{1}{\sqrt{5}-1}$$

Rationalizing the denominator, we get :

$$= \frac{1}{(\sqrt{5}-1)} \times \frac{(\sqrt{5}+1)}{(\sqrt{5}+1)}$$

$$= \frac{\sqrt{5}+1}{5-1} = \frac{\sqrt{5}+1}{4}$$

$$= \frac{2.236+1}{4} = \frac{3.236}{4} = 0.809$$

=> Ans - (A)

### Question 3

If  $x + \frac{1}{x} = -2$ , then find the value of  $x^{631} + \frac{1}{x^{632}}$

A -2

B -1

C 0

D 2

Answer: C

**Explanation:**

$$\text{Expression : } x + \frac{1}{x} = -2$$

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

$$\Rightarrow x^2 + 2x + 1 = 0$$

$$\Rightarrow (x+1)^2 = 0$$

$$\Rightarrow x+1 = 0$$

$$\Rightarrow x = -1$$

$$\therefore x^{631} + \frac{1}{x^{632}}$$

$$= (-1)^{631} + (-1)^{\frac{1}{632}}$$

$$= -1 + 1 = 0$$

=> Ans - (C)

### Question 4

Find the area (in sq units) enclosed by  $y = 0$ ,  $x+6=0$  and  $2x-3y=6$ .

A 9

B 16

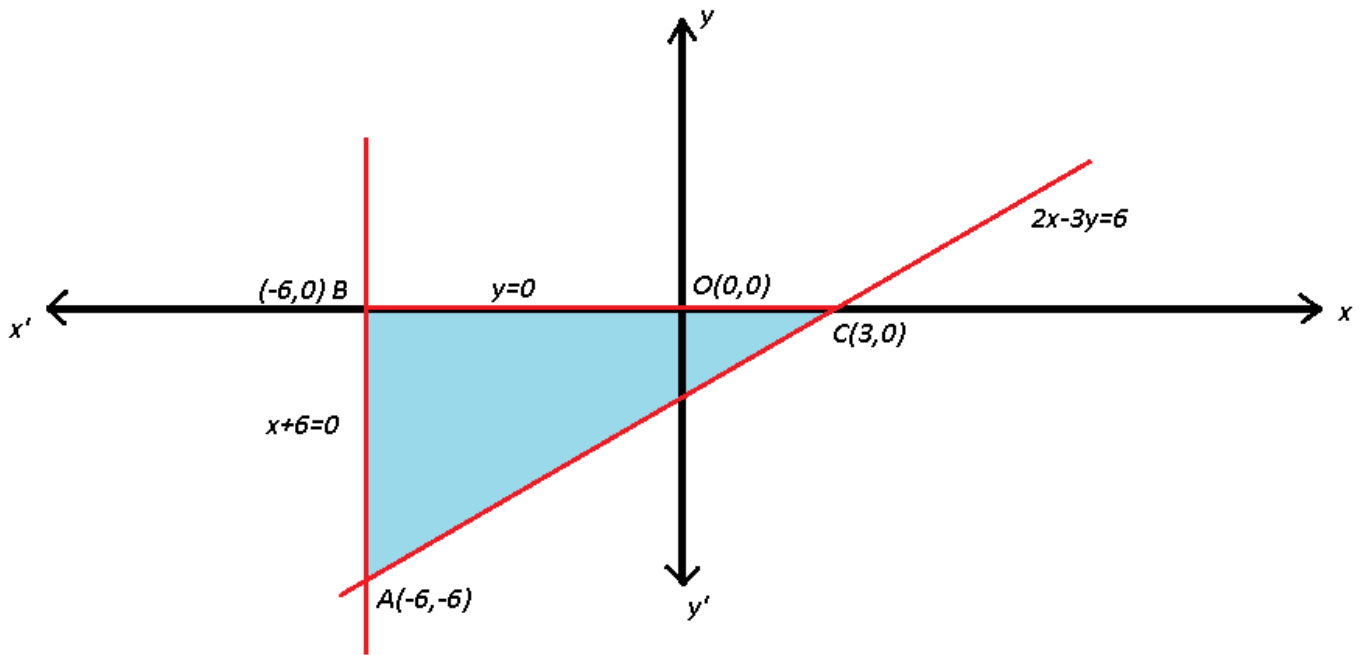
C 20

D 27

Answer: D

**Explanation:**

The graph represented by the lines :  $y = 0$ ,  $x + 6 = 0$  and  $2x - 3y = 6$  is



Now, area of  $\triangle ABC$  with base  $BC = 9$  units and height  $AB = 6$  units

$$= \frac{1}{2}bh$$

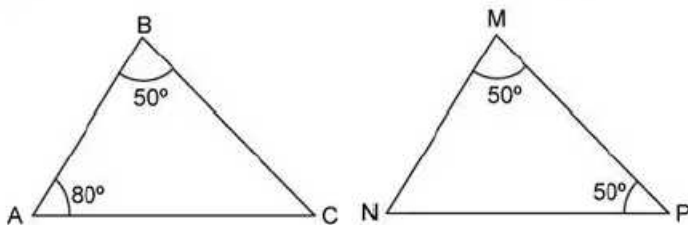
$$= \frac{1}{2} \times 9 \times 6 = 27 \text{ sq. units}$$

=> Ans - (D)

## SSC CHSL Free Mock Test

### Question 5

Consider the following two triangles as shown in the figure below



A  $\triangle BAC \sim \triangle NMP$

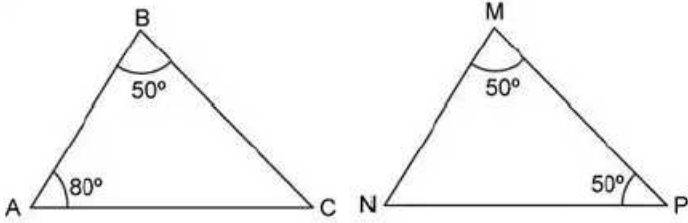
B  $\triangle BAC \sim \triangle MNP$

C  $\triangle CAB \sim \triangle NMP$

D  $\triangle BAC \sim \triangle PMN$

Answer: B

Explanation:



According to angle sum property :  $\angle C = 50^\circ$  and  $\angle N = 80^\circ$

Now, in  $\triangle ABC$  and  $\triangle MNP$ ,

$$\angle A = \angle N = 80^\circ$$

The remaining 2 angles are equal to  $50^\circ$ , thus either  $\angle B = \angle P$  or  $\angle B = \angle M$

But  $\angle A$  is corresponding to  $\angle N$ .

Thus,  $\triangle BAC \sim \triangle MNP$

$\Rightarrow$  Ans - (B)

### Question 6

In the triangle ABC, the internal bisector of angle A meets the side BC at D. If  $BD = 7.5$  cm and  $BC = 9$  cm. Then calculate the value of  $AB : AC$ .

A 2:1

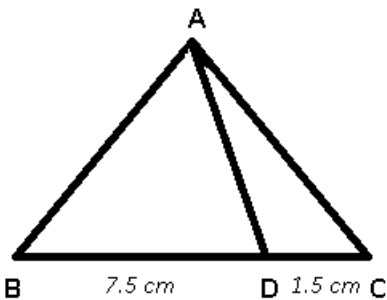
B 1:2

C 5:1

D 1:5

Answer: C

Explanation:



Given : AD is the angle bisector of  $\angle A$ . Also,  $BD = 7.5$  cm and  $BC = 9$  cm

To find :  $AB : AC = ?$

Solution :  $CD = 9 - 7.5 = 1.5$  cm

According to angle bisector theorem,

$$\Rightarrow \frac{AB}{BD} = \frac{AC}{DC}$$

$$\Rightarrow \frac{AB}{AC} = \frac{BD}{DC}$$

$$\Rightarrow \frac{AB}{AC} = \frac{7.5}{1.5} = 5$$

$\Rightarrow$  Ans - (C)

### Question 7

If 170% of a number added to 66, then the result becomes equal to twice of the number. What is the number?

A 200

B 220

C 210

D 236

**Answer: B**

**Explanation:**

Let the number be  $x$

According to ques,

$$\Rightarrow 100x + 66 = 2x$$

$$\Rightarrow 1.7x + 66 = 2x$$

$$\Rightarrow 2x - 1.7x = 0.3x = 66$$

$$\Rightarrow x = \frac{66}{0.3} = 220$$

$\Rightarrow$  Ans - (B)

## SSC CHSL Previous Papers (DOWNLOAD PDF)

**Question 8**

The ratio of Mohit's and Sunil's age at present is 7 : 9. Mohit is 4 years younger than Sunil. What will be the ratio of Mohit's age and Sunil's age after 6 years?

A 5 : 6

B 4 : 5

C 6 : 7

D 5 : 7

**Answer: A**

**Explanation:**

Let Mohit's age =  $7x$  years and Sunil's age =  $9x$  years

According to ques,  $\Rightarrow 9x - 7x = 4$

$$\Rightarrow 2x = 4$$

$$\Rightarrow x = \frac{4}{2} = 2$$

$$\therefore \text{Ratio of Mohit's age and Sunil's age after 6 years} = \frac{7(2)+6}{9(2)+6}$$

$$= \frac{20}{24} = \frac{5}{6}$$

$\Rightarrow$  Ans - (A)

**Question 9**

In a mixture, unbroken and broken rice grains are in the ratio 3 : 2. How much fraction of the mixture must be drawn off and substituted with broken grains, so that the ratio of unbroken and broken grains becomes 1 : 1?

A  $\frac{1}{3}$

B  $\frac{1}{6}$

C  $\frac{1}{4}$

D  $\frac{2}{5}$

Answer: B

Explanation:

Let quantity of unbroken and broken rice grains be 3 and 2 units respectively.

Let  $x$  units of mixture is taken out

=> Unbroken rice grains in  $(5 - x)$  units of mixture =  $\frac{3}{5}(5 - x)$

Similarly, after adding broken rice grains, => Broken rice grains in mixture =  $\frac{2}{5}(5 - x) + x$

According to ques,

$$\Rightarrow \frac{\frac{3}{5}(5-x)}{\frac{2}{5}(5-x)+x} = \frac{1}{1}$$

$$\Rightarrow 3 - \frac{3}{5}x = 2 - \frac{2}{5}x + x$$

$$\Rightarrow \frac{3x}{5} - \frac{2x}{5} + x = 3 - 2$$

$$\Rightarrow \frac{6x}{5} = 1$$

$$\Rightarrow x = \frac{5}{6}$$

$$\therefore \text{Required fraction} = \frac{\frac{5}{6}}{5} = \frac{1}{6}$$

=> Ans - (B)

Question 10

The average of 10 numbers is  $X$  and one of the number is 38. If 38 is replaced with 19, then what will be the new average?

A  $X - \left(\frac{1}{2}\right)$

B  $X - \left(\frac{1}{19}\right)$

C  $X - \left(\frac{19}{10}\right)$

D  $X - \left(\frac{19}{9}\right)$

Answer: C

Explanation:

Average of 10 numbers =  $x$

=> Sum of numbers =  $10x$

If 38 is replaced with 19, then new average =  $\frac{10x-38+19}{10}$

$$= \frac{10x-19}{10}$$

$$= x - \left(\frac{19}{10}\right)$$

=> Ans - (C)

## SSC CGL Previous Papers (DOWNLOAD PDF)

Question 11

Simple interest on a sum of Rs 67400 for 14 months is Rs 4718. What is the rate (in percentage) of interest per annum?

A 5.5

B 6

C 8

D 7

Answer: B

Explanation:

Principal sum = Rs. 67,400 and simple interest = Rs. 4718

Let rate of interest =  $r\%$  and time period =  $\frac{14}{2} = 7$  years

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

$$\Rightarrow \frac{67,400 \times r \times 7}{6 \times 100} = 4718$$

$$\Rightarrow \frac{4718r}{6} = 4718$$

$$\Rightarrow r = 6\%$$

$\Rightarrow$  Ans - (B)

Question 12

On selling 25 shirts, a retailer earns profit equal to the cost price of 8 shirts. What is the profit percentage?

A 47.05

B 32

C 25

D 34.5

Answer: B

Explanation:

Let cost price of a shirt = Rs.  $x$  and selling price = Rs.  $y$

Profit on selling 25 shirts = Rs.  $25(y - x)$

According to ques,

$$\Rightarrow 25(y - x) = 8x$$

$$\Rightarrow 25y - 25x = 8x$$

$$\Rightarrow 25y = 8x + 25x = 33x$$

$$\Rightarrow \frac{y}{x} = \frac{33}{25}$$

Let  $x = 25$  and  $y = 33$

$$\text{Thus, profit \%} = \frac{(y-x)}{x} \times 100$$

$$= \frac{(33-25)}{25} \times 100$$

$$= 8 \times 4 = 32\%$$

$\Rightarrow$  Ans - (B)

Question 13

What will be the net discount (in percentage) for two successive discounts of 20% and 30%?

A 50

B 56

C 44



D 54

Answer: C

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 30% (on changed price), selling price =  $80 - \left(\frac{30}{100} \times 80\right)$

=  $80 - 24 = \text{Rs. } 56$

$\therefore$  Net discount =  $\frac{(100-56)}{100} \times 100 = 44\%$

=> Ans - (C)

## SSC CGL Free Mock Test (Latest Pattern)

Question 14

If  $X=1.1$ , then what is the value of  $\sqrt{4x^2 - 4x + 1}$  ?

A 1.21

B 1.331

C 2.21

D 1.2

Answer: D

Explanation:

Expression :  $\sqrt{4x^2 - 4x + 1}$

=  $\sqrt{(2x - 1)^2} = (2x - 1)$  -----(i)

It is given that  $x = 1.1$ , substituting it in equation (i),

=>  $2(1.1) - 1 = 2.2 - 1 = 1.2$

=> Ans - (D)

Question 15

Manish can complete a work in 21 days and Karan can complete the same work in 28 days. If both together work for 7 days, then what fraction of total work is left?

A  $\frac{3}{5}$

B  $\frac{2}{3}$

C  $\frac{7}{12}$

D  $\frac{5}{12}$

Answer: D

Explanation:

Let total work to be done = L.C.M. (21,28) = 84

Manish can complete the work in 21 days,  $\Rightarrow$  Manish's efficiency =  $\frac{84}{21} = 4$  units/day

Similarly, Karan's efficiency =  $\frac{84}{28} = 3$  units/day

Now, (Manish+Karan)'s 7 day's work =  $(4 + 3)7 = 49$  units

Fraction of work that is left =  $\frac{(84-49)}{84} = \frac{35}{84} = \frac{5}{12}$

$\Rightarrow$  Ans - (D)

#### Question 16

A train is moving with uniform speed crosses two tunnels of lengths 270 metres and 450 metres in 12 seconds and 15 seconds respectively. What is the speed (in km/hr) of the train?

A 144

B 169

C 196

D 216

Answer: D

#### Explanation:

Let speed of train =  $x$  km/hr and length of train =  $l$  km

Using, speed = distance/time

$$\Rightarrow x = \frac{l+270}{12} \text{ -----(i)}$$

$$\text{and } x = \frac{l+450}{15} \text{ -----(ii)}$$

Comparing both equations, we get :

$$\Rightarrow \frac{l+270}{12} = \frac{l+450}{15}$$

$$\Rightarrow 5l + 1350 = 4l + 1800$$

$$\Rightarrow 5l - 4l = 1800 - 1350$$

$$\Rightarrow l = 450$$

$$\text{Substituting it in equation (ii), } \Rightarrow x = \frac{450+450}{15} = \frac{900}{15} = 60 \text{ m/s}$$

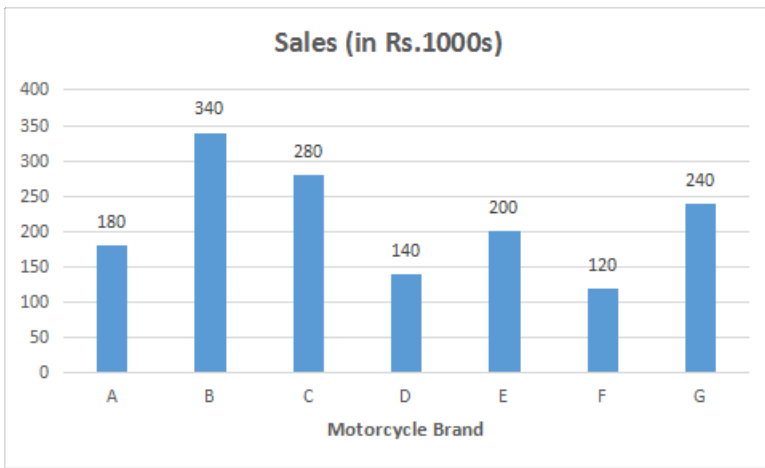
$$= \left(60 \times \frac{18}{5}\right) = 216 \text{ km/hr}$$

$\Rightarrow$  Ans - (D)

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

#### Instructions

The bar graph shows the number of motorcycles of different brands sold by a dealer in a month. Study the diagram and answer the following questions.



**Question 17**

Units sold of which Motorcycle brand were the second highest?

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

**Answer:** A

**Explanation:**

Units sold of Motorcycle brand C were the second highest = 280

=> Ans - (A)

**Question 18**

What is the ratio of units sold of brand A to that of brand C?

- A 9 : 14
- B 14 : 9
- C 11 : 14
- D 14 : 11

**Answer:** A

**Explanation:**

Number of units sold of brand A = 180

Number of units sold of brand C = 280

=> Required ratio =  $\frac{180}{280} = 9 : 14$

=> Ans - (A)

**Question 19**

Units sold of brand D was lesser than that of brand E by \_\_\_\_\_.

- A 37.20%
- B 60%
- C 42.80%

D 30%

Answer: D

Explanation:

Number of units sold of brand D = 140

Number of units sold of brand E = 200

$$\Rightarrow \text{Required \%} = \frac{(200-140)}{200} \times 100$$

$$= \frac{60}{200} = 30\%$$

\(\Rightarrow\) Ans - (D)

## SSC CHSL Study Material

Question 20

If the average price of a Motorcycle sold by the dealer is Rs 1 lakh then what is the sales (in Rs lakhs) of all the motorcycles sold by the dealer in the month?

A 150

B 1600

C 160

D 1500

Answer: D

Explanation:

Total number of units sold of all the brands

$$= 180 + 340 + 280 + 140 + 200 + 120 + 240 = 1500$$

Average price of 1 Motorcycle = Rs. 1 lakh

$$\Rightarrow \text{Sales (in Rs lakhs) of all the motorcycles sold by the dealer in the month} = 1500 \times 1 = 1500$$

\(\Rightarrow\) Ans - (D)

Instructions

For the following questions answer them individually

Question 21

The length of the diagonal and the breadth of a rectangle is 13 cm and 5 cm respectively. Calculate its area (in  $cm^2$ ).

A 60

B 120

C 37

D 74

Answer: A

Explanation:

Let the length of rectangle =  $l$  cm and breadth,  $b = 5$  cm

$$\Rightarrow \text{Diagonal, } d^2 = l^2 + b^2$$

$$\Rightarrow l^2 = (13)^2 - (5)^2$$

$$\Rightarrow l^2 = 169 - 25 = 144$$

$$\Rightarrow l = \sqrt{144} = 12 \text{ cm}$$

$$\therefore \text{Area} = 12 \times 5 = 60 \text{ cm}^2$$

$\Rightarrow$  Ans - (A)

#### Question 22

What is the sum of the measures of all the interior angles of a regular polygon of 5 sides?

- A 720
- B 1080
- C 1260
- D 540

Answer: D

#### Explanation:

Sum of all interior angles of a polygon with ' $n$ ' sides =  $(n - 2) \times 180^\circ$

$$\Rightarrow \text{Sum of angles of a pentagon} = (5 - 2) \times 180^\circ$$

$$= 3 \times 180^\circ = 540^\circ$$

$\Rightarrow$  Ans - (D)

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#### Question 23

The volume of a sphere is  $179.67 \text{ cm}^3$ . Find its diameter (in cm).

- A 3.5
- B 14
- C 7
- D 10.5

Answer: C

#### Explanation:

Let radius of sphere =  $r$  cm

$$\text{Volume of sphere} = \frac{4}{3} \times \pi r^3$$

$$\Rightarrow \frac{4}{3} \times \frac{22}{7} \times (r)^3 = 179.67$$

$$\Rightarrow (r)^3 = 179.67 \times \frac{21}{88}$$

$$\Rightarrow (r)^3 = 42.875$$

$$\Rightarrow r = \sqrt[3]{42.875} = 3.5 \text{ cm}$$

$$\therefore \text{Diameter} = 2 \times 3.5 = 7 \text{ cm}$$

$\Rightarrow$  Ans - (C)

#### Question 24

What is the value of  $(\cos 45^\circ - \frac{1}{3})$ ?

A  $2 - \sqrt{3}$

B  $\frac{2}{\sqrt{3}}$

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

D  $\frac{1}{2\sqrt{3}}$

Answer: C

Explanation:

Expression :  $(\cos 45^\circ - \frac{1}{3})$

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

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

=> Ans - (C)

Question 25

$\Delta UVW$  is right angled at V. If  $\sec U = \frac{5}{3}$ , then what is the value of  $\tan W$  ?

A  $\frac{3}{4}$

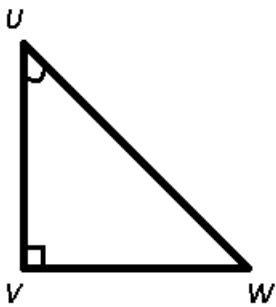
B  $\frac{5}{3}$

C  $\frac{4}{5}$

D  $\frac{4}{3}$

Answer: A

Explanation:



Given :  $\sec U = \frac{5}{3}$

Also,  $\sec U = \frac{UW}{UV} = \frac{5}{3}$

Let  $UW = 5$  cm and  $UV = 3$  cm

Thus, in  $\Delta UVW$ ,  $\Rightarrow (VW)^2 = (UW)^2 - (UV)^2$

$\Rightarrow (VW)^2 = (5)^2 - (3)^2$

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

$\Rightarrow VW = \sqrt{16} = 4$  cm

To find :  $\tan W = \frac{UV}{VW}$

$= \frac{3}{4}$

=> 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.

Vehicle : Bus :: ? : ?

- A Car : Tyre
- B Vegetable : Spinach
- C Road : Ship
- D Vehicle : Run

Answer: B

#### Explanation:

Expression = Vehicle : Bus :: ? : ?

The second comes under the category of first, i.e. bus is a vehicle, similarly spinach is a vegetable.

=> Ans - (B)

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#### Question 27

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

63 : 99 :: 48 : ?

- A 77
- B 60
- C 80
- D 65

Answer: C

#### Explanation:

Expression = 63 : 99 :: 48 : ?

The pattern followed is  $n^2 - 1 : (n + 2)^2 - 1$

Eg :-  $8^2 - 1 : (10)^2 - 1 = 63 : 99$

Similarly,  $7^2 - 1 = 48$

and  $(7 + 2)^2 - 1 = 81 - 1 = 80$

=> Ans - (C)

**Question 28**

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

ADF : KNP :: ILN : ?

- A SUW
- B SVX
- C TVW
- D TUX

**Answer:** B

**Explanation:**

Expression = ADF : KNP :: ILN : ?

The pattern followed is :

A	D	F
(+10)	(+10)	(+10)
K	N	P

Similarly, for ILN : **SVX**

I	L	N
(+10)	(+10)	(+10)
S	V	X

=> Ans - (B)

**Question 29**

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

- A Court - Justice
- B Education - School
- C Product - Shop
- D Treatment - Hospital

**Answer:** A

**Explanation:**

Second is the institute where we acquire the first thing, hence **Court - Justice** is the odd one out since its order is reversed.

=> Ans - (A)

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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 on 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

- A 63 - 67
- B 17 - 21



C 39 - 43

D 31 - 37

**Answer: D**

**Explanation:**

The difference between each of the pair of numbers is 4.

But in the last option  $\Rightarrow 37 - 31 = 6$

Thus, (31 - 37) is the odd one out.

$\Rightarrow$  Ans - (D)

**Question 31**

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

A CHM

B GLQ

C KPV

D NSX

**Answer: C**

**Explanation:**

(A) : C (+5 letters) = H (+5 letters) = M

(B) : G (+5 letters) = L (+5 letters) = Q

(C) : K (+5 letters) = P (+6 letters) = V

(D) : N (+5 letters) = S (+5 letters) = X

$\Rightarrow$  Ans - (C)

**Question 32**

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

1. Budge

2. Bulb

3. Cannon

4. Bumper

5. Capable

A Bumper

B Bulb

C Budge

D Capable

**Answer: B**

**Explanation:**

As per the order of dictionary :

= Budge  $\rightarrow$  Bulb  $\rightarrow$  Bumper  $\rightarrow$  Cannon  $\rightarrow$  Capable

Thus, the second word = **Bulb**

$\Rightarrow$  Ans - (B)

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

### Question 33

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

13, 22, 66, ?, 225, 234, 702, 711

- A 65
- B 75
- C 80
- D 70

Answer: B

### Explanation:

The pattern followed is :

$$13 + 9 = 22$$

$$22 \times 3 = 66$$

$$66 + 9 = 75$$

$$75 \times 3 = 225$$

$$225 + 9 = 234$$

$$234 \times 3 = 702$$

$$702 + 9 = 711$$

=> 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.

NC, OE, PG, QI, ?

- A RL
- B RK
- C SJ
- D SL

Answer: B

### Explanation:

Series : NC, OE, PG, QI, ?

The pattern followed in each letter of the terms is :

1st letter : N (+1 letter) = O (+1 letter) = P (+1 letter) = Q (+1 letter) = R

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

Thus, missing term = **RK**

=> Ans - (B)

### Question 35

In a row of boys, Rahul is 33rd from the left end. Rajat is 17 ranks to the right of Rahul. If Rajat is 35th from right end, then what will be the rank of Rahul from the right end?

- A 49
- B 50
- C 51
- D 52

**Answer:** D

**Explanation:**

Rahul's rank from left = 33rd

Rajat is 17 ranks to the right of Rahul, => Rajat's rank from left =  $33 + 17 = 50$ th

Also, Rajat's rank from right = 35th

=> Total boys in the row =  $(50 + 35) - 1 = 84$

∴ Rahul's rank from right =  $(84 + 1) - 33 = 52$

=> Ans - (D)

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**Question 36**

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

**Superannuated**

- A Neat
- B After
- C Sure
- D Super

**Answer:** B

**Explanation:**

The word SUPERANNUATED does not contain any 'F', thus the term **After** cannot be formed.

=> Ans - (B)

**Question 37**

In a certain code language, "PRICE" is written as "1618935" and "VALUE" is written as "22112215". How is "MARK" written in that code language?

- A 1381211
- B 1311811
- C 1341817
- D 1718192

**Answer:** B

**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.

Eg :- PRICE = 16,18,9,3,5 -> 1618935

VALUE = 22,1,12,21,5 → 22112215

Similarly, MARK = 13,1,18,11 → 1311811

⇒ Ans - (B)

### Question 38

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

$$6 \div 10 - 30 + 4 \times 12 = ?$$

A 6

B 2

C 42

D 41

Answer: A

### Explanation:

Expression :  $6 \div 10 - 30 + 4 \times 12 = ?$

$$\equiv 6 - 10 + 30 \times 4 \div 12$$

$$= -4 + \frac{120}{12}$$

$$= -4 + 10 = 6$$

⇒ Ans - (A)

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### Question 39

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

$$90 \div 10 + 5 - 6 \times 4 = 28$$

A - and +

B ÷ and x

C x and -

D ÷ and -

Answer: A

### Explanation:

Expression :  $90 \div 10 + 5 - 6 \times 4 = 28$

(A) : - and +

$$\equiv 90 \div 10 - 5 + 6 \times 4 = 28$$

$$\text{L.H.S.} = \left(\frac{90}{10}\right) - 5 + (6 \times 4)$$

$$= 9 - 5 + 24 = 28 = \text{R.H.S.}$$

⇒ Ans - (A)

### Question 40

If  $3@7 = 20$ ,  $8@1 = 18$  and  $6@5 = 22$ , then find the value of  $4@4 = ?$

- A 15
- B 16
- C 20
- D 29

**Answer: B**

**Explanation:**

Given :  $3@7 = 20$ ,  $8@1 = 18$  and  $6@5 = 22$

If we replace '@' with '+', and multiply the sum by 2, we get the desired result.

Eg :-  $(3 + 7) \times 2 = 20$

and  $(8 + 1) \times 2 = 18$  and  $(6 + 5) \times 2 = 22$

Similarly,  $(4 + 4) \times 2 = 16$

=> Ans - (B)

**Question 41**

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

abaBABAB, AbabABAB, ABabaBAB, ABAbabAB, ABABabaB, \_\_\_\_\_.

- A aBABABab
- B ABABAbab
- C abaBABAB
- D AbabABAB

**Answer: B**

**Explanation:**

Series : abaBABAB, AbabABAB, ABabaBAB, ABAbabAB, ABABabaB, \_\_\_\_\_.

The pattern followed is that there are 4 pairs of 'ab', in which there are only 3 small alphabets, shifting one place to the right in each term.

Thus, in missing term, the last three alphabets will be small letters.

Thus, missing term = **ABABAbab**

=> Ans - (B)

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**Question 42**

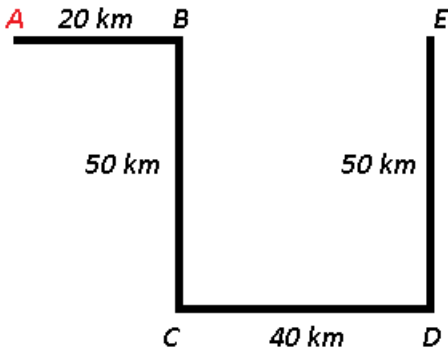
A flock of migrating geese flies 20 km East, then turns South and flies 50 km, then turns East and flies 40 km, and turns to its left and flies 50 km. Where is the flock now with reference to its starting position?

- A 20 km East
- B 60 km East
- C 60 km West
- D 20 km West

**Answer: B**

**Explanation:**

Let the flock of migrating geese starts from point A and flies 20 km East to reach B, then turns South and flies 50 km to point C, then turns East and flies 40 km to reach point D, and turns to its left and flies 50 km northwards finally to stop at point E.



=>  $AE = 20 + 40 = 60 \text{ km}$

∴ The flock is now **60 km east** with reference to its starting position.

=> 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 razors are blades**

**Statement II: All knives are razors**

**Conclusion I: Some razors are knives**

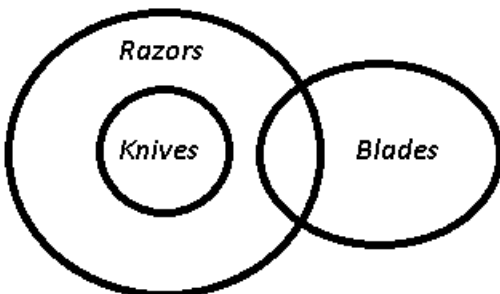
**Conclusion II: No knives are blades**

- 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 razors are knives = true

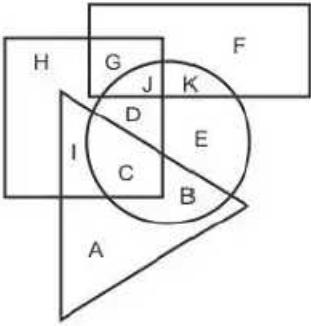
Conclusion II: No knives are blades = may or may not be true

Thus, only conclusion I follows.

=> Ans - (A)

Question 44

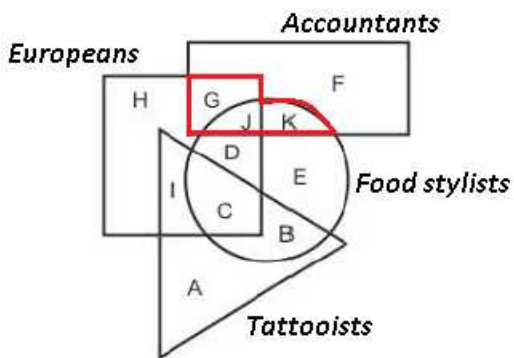
In the following figure, rectangle represents Accountants, circle represents Food stylists, triangle represents Tattoois and square represents Europeans. Which set of letters represents Accountants who are either Food stylists or Europeans?



- A J
- B KE
- C HG
- D GJK

Answer: D

Explanation:



Accountants who are either Food stylists or Europeans are represented by = GJK

=> 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.

PIG, TMK, XQO, ?, FYW

- A CAR
- B CVT
- C BUS
- D DWU

Answer: C

Explanation:

Series : PIG, TMK, XQO, ?, FYW

The pattern followed in each letter of the terms is :

1st letter : P (+4 letters) = T (+4 letters) = X (+4 letters) = B (+4 letters) = F

2nd letter : I (+4 letters) = M (+4 letters) = Q (+4 letters) = U (+4 letters) = Y

3rd letter : G (+4 letters) = K (+4 letters) = O (+4 letters) = S (+4 letters) = W

Thus, missing term = **BUS**

=> Ans - (C)

#### Question 46

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

1, 2, 4, 7, 11, ?

A 16

B 18

C 20

D 17

Answer: A

#### Explanation:

Successive natural numbers are added.

$$1 + 1 = 2$$

$$2 + 2 = 4$$

$$4 + 3 = 7$$

$$7 + 4 = 11$$

$$11 + 5 = 16$$

=> 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 (6, 25, 19)

B (9, 36, 28)

C (7, 29, 22)

D (5, 21, 16)

Answer: B

#### Explanation:

The numbers are of the form :  $(x, 4x + 1, 3x + 1)$

But in the second option, we have =  $4 \times 9 + 1 = 37 \neq 36$

Thus, (9, 36, 28) is the odd one out.

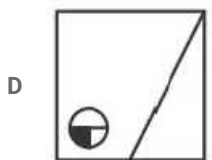
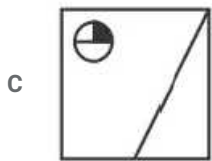
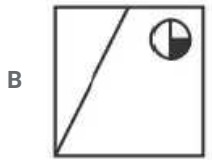
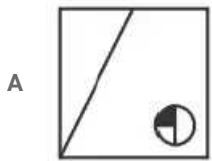
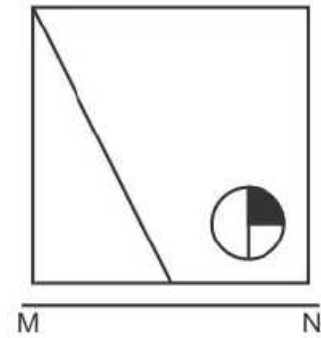
=> Ans - (B)



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### 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: B

#### Explanation:

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

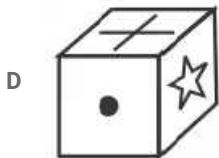
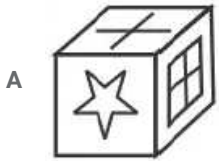
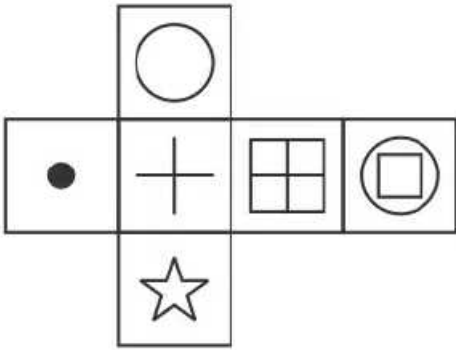
So the diagonal originating from top left will now appear at bottom left, thus the last two options will be eliminated.

Also, in the question figure, the circle at bottom right will appear at top right side, hence second option is the right image.

=> Ans - (B)

Question 49

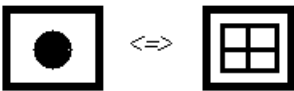
Which of the following cube in the answer figure cannot be made based on the unfolded cube in the question figure?



Answer: C

Explanation:

When we fold the given figure, the square with a '+' sign will become the base of the cube and the square inside the circle 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 third option is not possible.

=> Ans - (C)

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 as column, for example 'G' can be represented by 32, 43 etc and 'Q' can be represented by 76, 77 etc. Similarly, you have to identify the set for the word 'HEAP'.

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

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

- A 21,23,11,96
- B 23,55,30,76
- C 13,69,22,99
- D 41,96,30,58

Answer: A

Explanation:

- (A) : 21,23,11,96 = HEAP
  - (B) : 23,55,30,76 = EYIQ
  - (C) : 13,69,22,99 = ANLW
  - (D) : 41,96,30,58 = JPIN
- => Ans - (A)

SSC CGL Previous Papers (DOWNLOAD PDF)

English

Instructions

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'.

Question 51

The noise startled (a)/ the dog (b)/ and made it to yell. (c)/ No error (d)

- A The noise startled
- B the dog
- C and made it to yell
- D No error

Answer: C

SSC CGL Free Mock Test (Latest Pattern)

**Question 52**

There is a general agreement that some behaviors that are common in birds (a)/ as well as in crocodiles, was also common among (b)/ extinct dinosaur groups. (c)/No error (d)

- A There is a general agreement that some behaviors that are common in birds
- B as well as in crocodiles, was also common among
- C extinct dinosaur groups
- D No error

**Answer: B**

**Instructions**

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.

**Question 53**

She kept thinking, "How lucky Serena \_\_\_\_\_!"

- A can
- B could be
- C is
- D supposedly

**Answer: C**

**Question 54**

Faith is the only power that can inspire a human being who is in \_\_\_\_\_.

- A flair
- B glair
- C stair
- D despair

**Answer: D**

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

**Instructions**

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

**Question 55**

**Enigmatic**

- A Obvious
- B Mysterious
- C Plain

D Known

**Answer: B**

**Question 56**

**Declension**

A Decay

B Decision

C Improvement

D Increase

**Answer: A**

**Instructions**

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

**Question 57**

**Fritter**

A Blow

B Dwindle

C Dissipate

D Save

**Answer: D**

## SSC CHSL Study Material

**Question 58**

**Melancholy**

A Destroyed

B Moody

C Low

D Cheerful

**Answer: D**

**Instructions**

For the following questions answer them individually

**Question 59**

**Rearrange the parts of the sentence in correct order.**

**The ideology of**

**P : modern economics suggests that**

**Q : enhanced satisfaction and well-being**

**R : material progress has yielded**

- A PQR
- B RQP
- C PRQ
- D RPQ

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.

She threw me into a ditch.

- A I was threw.
- B I am threw by her into a ditch.
- C I was thrown into a ditch by her.
- D I was thrown into a ditch.

Answer: C

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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.

"Be silent" I said to them.

- A I told them to be silent.
- B I told them of being silent.
- C I said them to be silent.
- D Be silent, he said to them.

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 Surgent
- B Sergant
- C Sergeant
- D Sergent

Answer: C

## 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.

Although it has been felt necessary to devote much space to \_\_\_\_\_ attempt to find principles that may be said to be at the basis \_\_\_\_\_ the art of all nations, the executive side of the question has not been neglected. And it is hoped that the \_\_\_\_\_ method for the study of drawing from the two opposite points of view of line and mass here advocated may be useful, and help students to avoid some of the \_\_\_\_\_ that results from attempting simultaneously the study of these \_\_\_\_\_ qualities of form expression.

### Question 63

much space to \_\_\_\_\_ attempt to find principles

- A an
- B a
- C it
- D once

Answer: A

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### Question 64

at the basis \_\_\_\_\_ the art of all nations,

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

Answer: A

### Question 65

And it is hoped that the \_\_\_\_\_ method for the study

- A logic
- B logics
- C logical
- D logically

Answer: C

### Question 66

avoid some of the \_\_\_\_\_ that results

- A confuse
- B confusing

- C confused
- D confusion

Answer: D

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Question 67

study of these \_\_\_\_\_ qualities of form expression.

- A difference
- B different
- C differences
- D differently

Answer: B

Instructions

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

Question 68

**Bite off more than you can chew**

- A A voracious person who eats with big morsels.
- B It is not good manners to hog food when you are in a social setting.
- C A commitment is a commitment irrespective of whether you can do it or not.
- D Take on a commitment one cannot fulfil.

Answer: D

Question 69

**A fool's paradise**

- A An average person appears smart in company of fools.
- B A state of happiness based on a person's not knowing about potential trouble.
- C A paradise is ruined when fools enter it.
- D Pretending that everything is going fine when actually all is being lost.

Answer: B

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Instructions

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

Question 70

The clandestine copying and distribution of literature banned by the state



- A Wanton
- B Brazen
- C Flagrant
- D Samizdat

Answer: D

**Question 71**

The forming of a theory or conjecture without firm evidence

- A Verification
- B Substantiation
- C Speculation
- D Attestation

Answer: C

**Instructions**

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".

**Question 72**

People (have got so addict) to their virtual life that they forget there is more to life than just sitting in front of a plastic box.

- A have got so addicting
- B has got so addicted
- C have got so addicted
- D no improvement

Answer: C

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**Question 73**

During the last decade the typewriters (had give) way to the computers.

- A have gave
- B is giving
- C have given
- D no improvement

Answer: C

**Instructions**

For the following questions answer them individually

**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.

Leaders usher

- A- creates a natural tension
- B- in organisational change, which
- C- as the status quo fights back

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

**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 effuzively
- B effusively
- C efusively
- D efuzively

**Answer: B**

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## General Awareness

**Instructions**

For the following questions answer them individually

**Question 76**

Which one of the following countries is NOT a member of ASEAN?

- A Brunei Darussalam
- B Cambodia
- C Vietnam
- D India

**Answer: D**

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**Question 77**

Planning in India derives its objectives and social premises from which of the following?

- A Public Policy
- B Directive Principles of State Policy
- C Fundamental Rights
- D Fundamental Duties

**Answer: B**

**Question 78**

The hills, namely Black, Blue and Green Hill, are located in which country?

- A Australia
- B Germany
- C USA
- D Russia

**Answer: C**

**Question 79**

Where is the origin of Ganga and Brahmaputra rivers are situated respectively?

- A In Nepal and Tibet
- B In Tibet and Sikkim
- C In Uttar Pradesh and Tibet
- D Uttarakhand and Tibet

**Answer: D**

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**Question 80**

Upanishad Books are: \_\_\_\_\_.

- A On religion
- B On yoga
- C On the law
- D On philosophy

**Answer: D**

**Question 81**

In which year Swami Vivekananda established the Ramakrishna Mission at Belur?

- A 1885
- B 1890

C 1897

D 1901

Answer: C

Question 82

Panna Lal Ghosh is related to which musical instrument?

A Mridangam

B Flute

C Shehnai

D Sarod

Answer: B

## SSC CHSL Free Mock Test

Question 83

The first ever disaster management exercise of BIMSTEC countries was held \_\_\_\_\_ in October 2017.

A Dhaka

B Colombo

C New Delhi

D Karachi

Answer: C

Question 84

Which country was, in October 2017, named the best country to visit in 2018, according to Lonely Planet 'Best in Travel 2018' list?

A India

B Chile

C Thailand

D South Korea

Answer: B

Question 85

In which year Bhutan adopted its Constitution?

A 2004

B 2006

C 2008

D 2010

Answer: C

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Question 86

Atomic number is always equal to \_\_\_\_\_.

- A Number of protons
- B Number of neutrons
- C Number of electrons
- D Sum of protons and neutrons

Answer: A

Question 87

Which of the following statement(s) is/are INCORRECT ?

- I. Alkenes are fairly unreactive.
- II. Alkenes burn with blue flame.
- III. Alkanes burn with yellow flame.

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

Answer: D

Question 88

Which pillar of Indian Constitution is its final interpreter?

- A The Executive
- B The Legislative
- C The Judiciary
- D No option is correct.

Answer: C

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Question 89

Which Constitutional Amendment Act gave constitutional recognition to the panchayats ?

- A 72nd Constitutional Amendment Act
- B 73rd Constitutional Amendment Act

C 74th Constitutional Amendment Act

D 75th Constitutional Amendment Act

**Answer: B**

**Question 90**

**Which of the following is NOT included in the excretory system of human being?**

A A pair of kidney

B A pair of ureters

C Abdomen

D Urinary bladder

**Answer: C**

**Question 91**

**By which process substance like carbon dioxide or oxygen can move across the cell membrane?**

A Plasmolysis

B Sedimentation

C Diffusion

D Transpiration

**Answer: C**

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

**Question 92**

**In November 2017, Indian Government approved setting up of 'Pradhan Mantri Mahila Shakti Kendras'. These will be set up in how many most backward districts of the country?**

A 100

B 150

C 115

D 200

**Answer: C**

**Question 93**

**Researchers from Columbia University Medical Centre in United States o America have converted which of the following into the world's smallest data recorder?**

A Natural bacterial immune system

B Magnetic tape

C Viral snippet copies

D No option is correct.

Answer: A

Question 94

As per RBI In October 2017, Gross Non-Performing Assets (GNPA) ratio for NBFCs increased to what percentage till March 2017?

A 2

B 5

C 10

D 20

Answer: B

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

Question 95

On 5 January 2018, Lok Sabha passed High Court and Supreme Court Judges (Salaries and Conditions of Service) Amendment Bill, 2017. The Bill seeks to amend \_\_\_\_\_.

A High Court Judges (Salaries and Conditions of Service) Act, 1954

B High Court Judges (Salaries and Conditions of Service) Act, 1964

C High Court Judges (Salaries and Conditions of Service) Act, 1975

D High Court Judges (Salaries and Conditions of Service) Act, 1980

Answer: A

Question 96

A Sonar of a ship sends sounds waves of speed 1000 m/s. These waves are reflected back by the ocean floor in 2 seconds. Find the depth (in m) of the ocean floor.

A 2000

B 500

C 1000

D 100

Answer: C

**Explanation:**

Speed of sound waves = 1000 m/s

Using, distance = speed  $\times$  time

= 1000  $\times$  2 = 2000 m

But, this is the total distance travelled by the sound, so the depth is half of this.

=> Depth =  $\frac{2000}{2}$  = 1000 m

=> Ans - (C)

**Question 97**

If the acceleration due to gravity on the surface of earth is  $g$ , then the acceleration due to gravity on the surface of a planet whose mass is same as that of earth and radius is half as that of earth is \_\_\_\_\_.

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

**Answer: D**

## SSC CHSL Study Material

**Question 98**

The process of electric discharge between clouds and the earth or between different clouds causes \_\_\_\_\_.

- A thunderstorm
- B cyclone
- C lightning
- D winds

**Answer: C**

**Question 99**

Which of the statements given below are correct?

- A) Julio Granda won the 2017 World Senior Chess Championship.
- B) Zhansaya Abdumalik won the Women's 2017 World Junior Chess Championship.
- C) In 2017 Pro Kabaddi League, Suraj Desai played for Dabang Delhi.

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

**Answer: C**

**Question 100**

The objective of \_\_\_\_\_ is to make India a global information technology superpower.

- A NIC
- B NASSCOM
- C Department of Information Technology
- D State Bank of India



Answer: C

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