



## SSC CHSL 13 March 2018 Afternoon Shift

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**Instructions**

For the following questions answer them individually

**Question 1**

What is the place value and face value of 9 in 68956 respectively?

- A 9,900
- B 900,9
- C 9,9
- D 9000,900

**Answer:** B

**Explanation:**

Number : 68956

The place value of 9 =  $9 \times 100 = 900$

Face value = 9

=> Ans - (B)

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**Question 2**

Find the unit place digit in  $71 \times 72 \times 73 \times 74 \times 76 \times 77 \times 78 \times 79$ .

- A 2
- B 0
- C 4
- D 6

**Answer:** D

**Explanation:**

Expression :  $71 \times 72 \times 73 \times 74 \times 76 \times 77 \times 78 \times 79$

Unit place is the product of unit digits.

$$= (1 \times 2 \times 3 \times 4) \times (6 \times 7) \times (8 \times 9)$$

$$= 24 \times 42 \times 72$$

$$\equiv 4 \times 2 \times 2 = 16$$

Thus, unit digit = 6

=> Ans - (D)

**Question 3**

The value of  $1 + 2^2 + 2^3 + 2^4 + \dots + 2^9$  is \_\_\_\_\_.

- A 255
- B 511

C 1021

D 2047

Answer: C

Explanation:

$$\text{Expression : } 1 + 2^2 + 2^3 + 2^4 + \dots + 2^9$$

$$= (2^0 + 2^1 + 2^2 + 2^3 + 2^4 + \dots + 2^9) - 2$$

The above series is a geometric progression with first term,  $a = 1$  and common ratio,  $r = 2$

Number of terms,  $n = 10$

$$\text{Sum of G.P.} = \frac{a(r^n - 1)}{r - 1}$$

$$= \left[ \frac{1(2^{10} - 1)}{2 - 1} \right] - 2$$

$$= 1024 - 1 - 2 = 1021$$

=> Ans - (C)

Question 4

What will be the value of  $a^3 + b^3$ , if  $a^2 + b^2 = 32$  and  $a + b = 8$  ?

A 8

B 32

C 128

D 256

Answer: C

Explanation:

$$\text{Given : } a^2 + b^2 = 32 \text{ -----(i)}$$

$$\text{and } a + b = 8 \text{ -----(ii)}$$

Squaring both sides,

$$\Rightarrow a^2 + b^2 + 2ab = 64$$

$$\text{Substituting value from equation (i), } \Rightarrow 32 + 2ab = 64$$

$$\Rightarrow 2ab = 64 - 32 = 32$$

$$\Rightarrow ab = \frac{32}{2} = 16 \text{ -----(iii)}$$

$$\therefore a^3 + b^3$$

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

Substituting values from equation (i), (ii) and (iii),

$$= (8)(32 - 16)$$

$$= 8 \times 16 = 128$$

=> Ans - (C)

## SSC CHSL Free Mock Test

Question 5

The line bisecting all the three angles of a triangle meets at a common point. This point is known as \_\_\_\_\_.

- A circum-center
- B centroid
- C orthocenter
- D in-center

**Answer:** D

**Explanation:**

The line bisecting all the three angles of a triangle meets at a common point and that point is known as *in-center*.

=> Ans - (D)

**Question 6**

The point of the intersection of three medians is known as the \_\_\_\_\_.

- A circum-centre
- B in-center
- C centroid
- D orthocenter

**Answer:** C

**Explanation:**

The point of the intersection of three medians in a triangle is known as the **centroid**.

=> Ans - (C)

**Question 7**

If  $P = 5X$  and  $Q = X$ , then P is how much percentage more than Q?

- A 80
- B 320
- C 500
- D 400

**Answer:** D

**Explanation:**

$$P = 5X \text{ and } Q = X$$

$$\Rightarrow \text{Required \%} = \frac{(5X - X)}{X} \times 100$$

$$= 4 \times 100 = 400\%$$

=> Ans - (D)

## SSC CHSL Previous Papers (DOWNLOAD PDF)

**Question 8**

The ratio of three numbers is 2 : 5 : 7. If their product is 1890, then what is the sum of the three numbers?

- A 82

B 140

C 42

D 72

**Answer: C**

**Explanation:**

Let the numbers be  $2x$ ,  $5x$  and  $7x$

$$\text{Product} = (2x) \times (5x) \times (7x) = 1890$$

$$\Rightarrow x^3 = \frac{1890}{70} = 27$$

$$\Rightarrow x = \sqrt[3]{27} = 3$$

$$\therefore \text{Sum of numbers} = 2x + 5x + 7x = 14x$$

$$= 14 \times 3 = 42$$

$\Rightarrow$  Ans - (C)

**Question 9**

P starts a business with Rs 14000. After 8 months Q joins P with Rs. 8000. After 3 years, what will be the ratio of the profit of P and Q?

A 12 : 5

B 9 : 4

C 14 : 9

D 15 : 8

**Answer: B**

**Explanation:**

P invested Rs. 14,000 for 36 months and Q invested Rs. 8,000 for 28 months

$$\Rightarrow \text{Ratio of profits of P:Q} = (14,000 \times 36) : (8,000 \times 28)$$

$$= (36) : (8 \times 2) = 9 : 4$$

$\Rightarrow$  Ans - (B)

**Question 10**

A person bought 100 cars for Rs 40000. If the average price of 60 cars is Rs 500, then what will be the average price (in Rs) of remaining cars?

A 200

B 250

C 300

D 350

**Answer: B**

**Explanation:**

Price of 100 cars = Rs. 40,000

Average price of 60 cars = Rs. 500

$$\Rightarrow \text{Total price of 60 cars} = 500 \times 60 = \text{Rs. } 30,000$$

$$\therefore \text{Average price of remaining } (100-60=40) \text{ cars} = \frac{(40,000-30,000)}{40}$$

$$= \frac{1000}{4} = \text{Rs. } 250$$

=> Ans - (B)

## SSC CGL Previous Papers (DOWNLOAD PDF)

### Question 11

The simple interest on a sum for 5 years is Rs 16800. The rate of interest for the first 3 years is 8% per annum and for the next 2 years is 12% per annum. What is the value (in Rs) of sum?

- A 30000
- B 38000
- C 32000
- D 35000

Answer: D

#### Explanation:

Let the sum = Rs.  $100x$

Rate of interest for first 3 years = 8% and for next 2 years = 12%

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

$$\Rightarrow \left( \frac{100x \times 8 \times 3}{100} \right) + \left( \frac{100x \times 12 \times 2}{100} \right) = 16800$$

$$\Rightarrow 24x + 24x = 16800$$

$$\Rightarrow x = \frac{16800}{48} = 350$$

$$\therefore \text{Sum} = 100 \times 350 = \text{Rs. } 35,000$$

=> Ans - (D)

### Question 12

Selling price of an article is Rs 1144. If loss percentage is 12%, then what is the cost price (in Rs) of article?

- A 1300
- B 1006
- C 1242
- D 1440

Answer: A

#### Explanation:

Selling price = Rs. 1144

Loss % = 12%

$$\Rightarrow \text{Cost price} = \frac{1144}{(100-12)} \times 100$$

$$= \frac{104}{8} \times 100 = \text{Rs. } 1300$$

=> Ans - (A)

**Question 13**

Marked price of a chair is Rs 800 and discount is 15%. What is additional discount (in percentage) should be offered to the customer to bring the price of chair to Rs 578?

- A 15
- B 10
- C 16.5
- D 17.5

**Answer:** A

**Explanation:**

Marked price of a chair is Rs 800 and discount = 15%

$$\Rightarrow \text{Selling price} = 800 - \left(\frac{15}{100} \times 800\right)$$

$$= 800 - 120 = \text{Rs. } 680$$

Actual selling price = Rs. 578

$$\Rightarrow \text{Additional Discount \%} = \frac{(680-578)}{680} \times 100$$

$$= \frac{102}{680} = 15\%$$

$\Rightarrow$  Ans - (A)

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

**Question 14**

Which of the following statements(S) is/are TRUE ?

I.  $\sqrt[3]{512} \times \sqrt{256} > \sqrt[3]{343} \times \sqrt{289}$

II.  $\sqrt{121} + \sqrt[3]{1331} > \sqrt[3]{125} \times \sqrt{25}$

- A Only I
- B Only II
- C Neither I nor II
- D Both I and II

**Answer:** A

**Explanation:**

I:  $\sqrt[3]{512} \times \sqrt{256} > \sqrt[3]{343} \times \sqrt{289}$

L.H.S. =  $8 \times 16 = 128$

R.H.S. =  $7 \times 17 = 119$

Thus,  $128 > 119$ , which is correct.

II:  $\sqrt{121} + \sqrt[3]{1331} > \sqrt[3]{125} \times \sqrt{25}$

L.H.S. =  $11 + 11 = 22$

R.H.S. =  $5 \times 5 = 25$

Thus,  $22 < 25$

$\therefore$  Only I is correct.

=> Ans - (A)

### Question 15

Two pipes can fill a cistern in 28 and 21 hours respectively and an another pipe can empty 30 gallons of water per hour. All the three pipes working together can fill the empty cistern in 84 hours. What is the capacity (in gallons) of the cistern?

- A 350
- B 450
- C 420
- D 480

Answer: C

#### Explanation:

Let total capacity of cistern (in gallons) =  $x$

=> Efficiency of both inlet pipes respectively =  $(\frac{x}{28} + \frac{x}{21})$  gallons/hr

Similarly, efficiency of outlet pipe =  $-30$  gallons/hr

According to ques,

$$\Rightarrow (\frac{x}{28} + \frac{x}{21} - 30) \times 84 = x$$

$$\Rightarrow \frac{3x+4x-(30 \times 84)}{84} = \frac{x}{84}$$

$$\Rightarrow 7x - (30 \times 84) = x$$

$$\Rightarrow 7x - x = 6x = 30 \times 84$$

$$\Rightarrow x = \frac{30 \times 84}{6}$$

$$\Rightarrow x = 5 \times 84 = 420 \text{ gallons}$$

=> Ans - (C)

### Question 16

A train is moving at the speed of 36 km/hr. How many seconds it will take to cover a distance of 600 meters?

- A 60
- B 120
- C 30
- D 40

Answer: A

#### Explanation:

Let time taken to cover 600 m =  $t$  seconds

$$\text{Speed} = 36 \text{ km/hr} = (36 \times \frac{5}{18}) = 10 \text{ m/s}$$

Using, time = distance/speed

$$\Rightarrow t = \frac{600}{10} = 60 \text{ seconds}$$

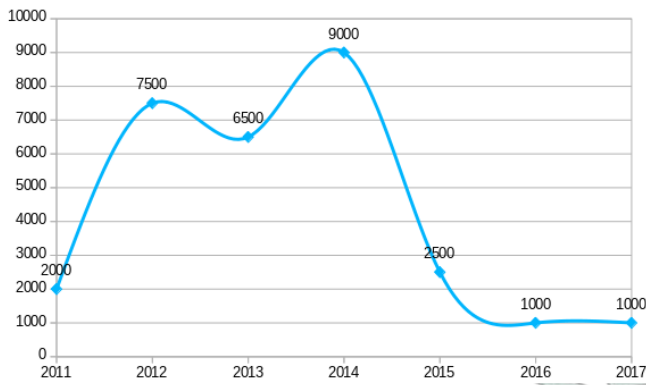
=> Ans - (A)

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

Instructions



The line graph shows the number of students of a certain university who failed in the given year in their final exams. Study the diagram and answer the following questions.



**Question 17**

In which year were failures greater than that of the previous year?

- A 2014
- B 2013
- C 2015
- D 2016

**Answer:** A

**Explanation:**

In 2012 and **2014**, the failures were greater than that of the previous year.

=> Ans - (A)

**Question 18**

What was the difference in failures between the years 2011 and 2013?

- A 6000
- B 4500
- C 6500
- D 4000

**Answer:** B

**Explanation:**

Number of failures in 2013 = 6500

Number of failures in 2011 = 2000

=> Required difference =  $6500 - 2000 = 4500$

=> Ans - (B)

**Question 19**

Failures in 2014 were greater than that in 2012 by \_\_\_\_\_.

- A 25%
- B 16.67%
- C 20%

D 15%

**Answer: C**

**Explanation:**

Number of failures in 2014 = 9000

Number of failures in 2012 = 7500

$$\Rightarrow \text{Required \%} = \frac{(9000-7500)}{7500} \times 100$$

$$= \frac{1500}{75} = 20\%$$

$\Rightarrow$  Ans - (C)

## SSC CHSL Study Material

**Question 20**

What is the average number of failures in the last three years?

A 1500

B 1250

C 1350

D 1400

**Answer: A**

**Explanation:**

Total number of failures in the last three years (2015, 2016 and 2017)

$$= 2500 + 1000 + 1000 = 4500$$

$$\text{Average number of failures} = \frac{4500}{3} = 1500$$

$\Rightarrow$  Ans - (A)

**Instructions**

For the following questions answer them individually

**Question 21**

The area of a square is  $40.5\text{cm}^2$ . Find the length of its diagonal (in cm).

A 9

B 4.5

C 18

D 13.5

**Answer: A**

**Explanation:**

Let side of square =  $s$  cm and its diagonal =  $d$  cm

$$\text{Area} = s^2 = 40.5$$

$$\text{Now, } d^2 = s^2 + s^2$$

$$\Rightarrow d^2 = 40.5 + 40.5 = 81$$

$$\Rightarrow d = \sqrt{81} = 9 \text{ cm}$$

=> Ans - (A)

**Question 22**

What is the measure of an exterior angle of a regular polygon of 10 sides?

- A 30
- B 24
- C 36
- D 20

**Answer: C**

**Explanation:**

Sum of exterior angles of any polygon =  $360^\circ$

=> Measure of each exterior angle of regular polygon with 10 sides =  $\frac{360^\circ}{10} = 36^\circ$

=> Ans - (C)

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**Question 23**

The total surface area of a hemisphere is  $462\text{cm}^2$ . Find its diameter (in cm).

- A 7
- B 28
- C 21
- D 14

**Answer: D**

**Explanation:**

Let the radius of hemisphere =  $r$  cm

=> Total surface area =  $3\pi r^2 = 462$

$$\Rightarrow 3 \times \frac{22}{7} \times r^2 = 462$$

$$\Rightarrow r^2 = 462 \times \frac{7}{66} = 49$$

$$\Rightarrow r = \sqrt{49} = 7$$

$$\therefore \text{Diameter} = 2 \times 7 = 14 \text{ cm}$$

=> Ans - (D)

**Question 24**

What is the value of  $(\sin 60^\circ - 2\sqrt{3})$ ?

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

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

Answer: D

Explanation:

Expression :  $(\sin 60^\circ - 2\sqrt{3})$

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

$= \frac{\sqrt{3} - 4\sqrt{3}}{2} = \frac{-3\sqrt{3}}{2}$

=> Ans - (D)

Question 25

$\Delta PQR$  is right angled at Q. If  $\tan P = \frac{24}{7}$ , then what is the value of  $\cos R$ ?

A  $\frac{25}{7}$

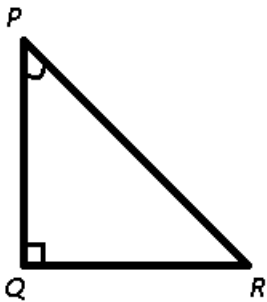
B  $\frac{24}{25}$

C  $\frac{24}{7}$

D  $\frac{7}{24}$

Answer: B

Explanation:



Given :  $\tan P = \frac{24}{7}$

Also,  $\tan P = \frac{QR}{PQ} = \frac{24}{7}$

Let  $QR = 24$  cm and  $PQ = 7$  cm

Thus, in  $\Delta PQR$ ,  $\Rightarrow (PR)^2 = (PQ)^2 + (QR)^2$

$\Rightarrow (PR)^2 = (7)^2 + (24)^2$

$\Rightarrow (PR)^2 = 49 + 576 = 625$

$\Rightarrow PR = \sqrt{625} = 25$  cm

To find :  $\cos R = \frac{QR}{PR}$

$= \frac{24}{25}$

=> Ans - (B)

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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.

Grapes : Fruit :: ? : ?

- A Stem : Potato
- B Ginger : Branch
- C Tomato : Red
- D Ladyfinger : Vegetable

**Answer:** D

**Explanation:**

Expression = Grapes : Fruit :: ? : ?

The first comes under the category of second, i.e. grapes are fruits, while ladyfinger is a vegetable.

=> Ans - (D)

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**Question 27**

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

42 : 55 :: ? : ?

- A 35 : 48
- B 64 : 80
- C 52 : 69
- D 36 : 54

**Answer:** A

**Explanation:**

Expression = 42 : 55 :: ? : ?

The difference between the numbers =  $55 - 42 = 13$

Similarly, only the difference between  $48 - 35 = 13$

=> Ans - (A)

**Question 28**

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

NPQ : SUV :: JLM : ?

- A PQS
- B ORS
- C PQR
- D OQR

**Answer:** D

**Explanation:**

Expression = NPQ : SUV :: JLM : ?

The pattern followed is :

N	P	Q
(+5)	(+5)	(+5)
S	U	V

Similarly, for JLM : **OQR**

J	L	M
(+5)	(+5)	(+5)
O	Q	R

=> Ans - (D)

**Question 29**

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

- A Cricket - Pitch
- B Rink - Skating
- C Hockey - Ground
- D Wrestling - Arena

**Answer: B**

**Explanation:**

In the above pairs, first is the sport and second is the enclosed area in which it is played, but order of **rink-skating** is different, hence it is the odd one out.

=> Ans - (B)

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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 given alternatives.

- A 13 - 15
- B 17 - 19
- C 11 - 13
- D 15 - 19

**Answer: D**

**Explanation:**

The difference between each of the pair of numbers is 2.

But in the last option =>  $19 - 15 = 4$

Thus, (15 - 19) is the odd one out.

=> Ans - (D)

**Question 31**

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

- A KQW
- B BGN
- C MSY
- D NTZ

**Answer:** B

**Explanation:**

(A) : K (+6 letters) = Q (+6 letters) = W

(B) : B (+5 letters) = G (+7 letters) = N

(C) : M (+6 letters) = S (+6 letters) = Y

(D) : N (+6 letters) = T (+6 letters) = Z

=> Ans - (B)

**Question 32**

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

1. Glorious
2. Glider
3. Golden
4. Glisten
5. Grapes

- A Glider
- B Golden
- C Grapes
- D Glisten

**Answer:** A

**Explanation:**

As per the order of dictionary :

= Glider -> Glisten -> Glorious -> Golden -> Grapes

Thus, the first word = **Glider**

=> Ans - (A)

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**Question 33**

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

21, 11, 32, 43, 75, ?

- A 125
- B 153

C 118

D 97

**Answer: C**

**Explanation:**

The given sequence is a type of Fibonacci series where the previous numbers are added to get the next number.

$$21 + 11 = 32$$

$$11 + 32 = 43$$

$$32 + 43 = 75$$

$$43 + 75 = 118$$

=> Ans - (C)

**Question 34**

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

GX, HW, IV, ?, KT

A JU

B KU

C JV

D JS

**Answer: A**

**Explanation:**

Series : GX, HW, IV, ?, KT

The pattern followed in each letter of the terms is :

1st letter : G (+1 letter) = H (+1 letter) = I (+1 letter) = J (+1 letter) = K

2nd letter : X (-1 letter) = W (-1 letter) = V (-1 letter) = U (-1 letter) = T

Thus, missing term = **JU**

=> Ans - (A)

**Question 35**

Rajan walks 24 metres towards east. Then turns right and walk another 24 metres. Then turn right and walks for 31 metres to reach shop A. He again turns to his right and walks for 24 metres. What is the straight line distance (in metres) between the starting point and shop A?

A  $14\sqrt{2}$

B  $15\sqrt{2}$

C 25

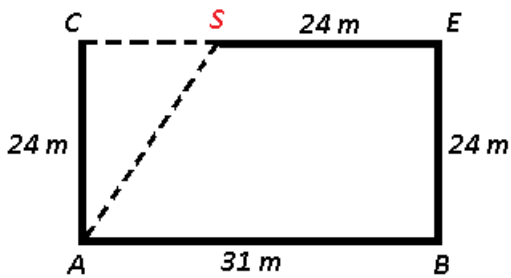
D 26

**Answer: C**

**Explanation:**

Let Rajan starts from point S and walks 24 metres towards east to reach E. Then turns right and walk another 24 metres southwards to reach B. Then turn right and walks for 31 metres to reach shop A. He again turns to his right and walks for 24 metres towards north to finally reach C.





Thus, in right triangle SAC, using Pythagoras Theorem :

$$\Rightarrow (SA)^2 = (AC)^2 + (CS)^2$$

$$\Rightarrow (SA)^2 = (24)^2 + (7)^2$$

$$\Rightarrow (SA)^2 = 576 + 49 = 625$$

$$\Rightarrow SA = \sqrt{625} = 25 \text{ m}$$

∴ Distance between the starting point and shop A = 25 m

⇒ 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.

**Ancillary**

- A Ail
- B Navy
- C Nill
- D Any

**Answer:** B

**Explanation:**

The word ANCILLARY does not contain any 'V', thus the term **Navy** cannot be formed.

⇒ Ans - (B)

### Question 37

In a certain code language, "POLIS" is written as "SROLV". How is "MRUGS" written in that code language?

- A JLNQF
- B PUXJV
- C FNPR A
- D VJQZT

**Answer:** B

**Explanation:**

"POLIS" is written as "SROLV"

The pattern followed is :

P	O	L	I	S
(+3)	(+3)	(+3)	(+3)	(+3)
S	R	O	L	V

Similarly, for MRUGS :

M	R	U	G	S
(+3)	(+3)	(+3)	(+3)	(+3)
P	U	X	J	V

=> Ans - (B)

### Question 38

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

$$20 \times 12 \div 3 - 40 + 12 = ?$$

- A 25
- B 32
- C 18
- D 7

Answer: C

#### Explanation:

Expression :  $20 \times 12 \div 3 - 40 + 12 = ?$

$$\equiv 20 - 12 + 3 \times 40 \div 12$$

$$= 8 + \frac{120}{12}$$

$$= 8 + 10 = 18$$

=> Ans - (C)

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### Question 39

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

$$14 \div 10 \times 20 - 40 + 34 = 1$$

- A x and -
- B ÷ and x
- C ÷ and -
- D - and +

Answer: B

#### Explanation:

Expression :  $14 \div 10 \times 20 - 40 + 34 = 1$

(A) : x and -

$$\equiv 14 \div 10 - 20 \times 40 + 34 = 1$$

$$\text{L.H.S.} = 1.4 - 800 + 34 = -764.6 \neq \text{R.H.S.}$$

(B) :  $\div$  and  $\times$   
 $\equiv 14 \times 10 \div 20 - 40 + 34 = 1$

L.H.S. =  $7 - 6 = 1 =$  R.H.S.

=> Ans - (B)

#### Question 40

If  $30\%6 = -5$ ,  $10\%5 = -2$  and  $10\%2 = -5$ , then find the value of  $80\%8 = ?$

A 40

B 25

C -10

D 5

Answer: C

#### Explanation:

Given :  $30\%6 = -5$ ,  $10\%5 = -2$  and  $10\%2 = -5$

If we replace '%' with ' $\div$ ' and append a 'negative' sign, then we will get the desired result.

Eg :-  $-\frac{30}{6} = -5$

and  $-\frac{10}{5} = -2$

and  $-\frac{10}{2} = -5$

Similarly,  $-\frac{80}{8} = -10$

=> Ans - (C)

#### Question 41

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

aAAAAAA, AaAAAAA, AAaAAAA, AAAaAAA, AAAaAA, \_\_\_\_\_.

A AAAAAa

B aAAAAA

C AaAAAA

D AAAAAa

Answer: D

#### Explanation:

Expression : aAAAAAA, AaAAAAA, AAaAAAA, AAAaAAA, AAAaAA, \_\_\_\_\_.

The pattern followed is that in each term there are 7 A's and in each term, there is one small 'a' starting from left end and shifting one place to the right.

Thus, in the missing term, the second last 'a' will be small = **AAAAAa**

=> Ans - (D)

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Question 42

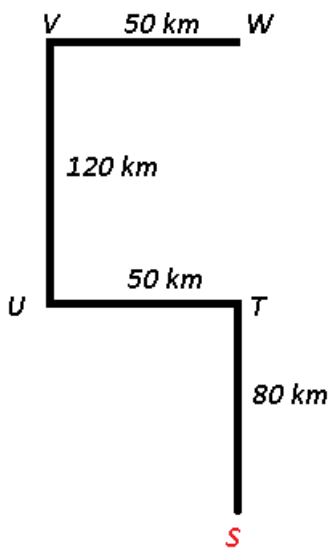
A helicopter flies 80 km North, then it turns West and flies 50 km, then it turns North and flies 120 km, then it turns to its right and flies 50 km. Where is it now with reference to its starting position?

- A 40 km North
- B 200 km South
- C 40 km South
- D 200 km North

Answer: D

Explanation:

Let the helicopter starts from point S and flies 80 km North to T, then it turns West and flies 50 km to reach U, then it turns North and flies 120 km to reach V, finally it turns to its right and flies 50 km eastwards to stop at point W.



=> WS = 120 + 80 = 200 km

∴ Now it is 200 km north with reference to its starting position.

=> Ans - (D)

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.

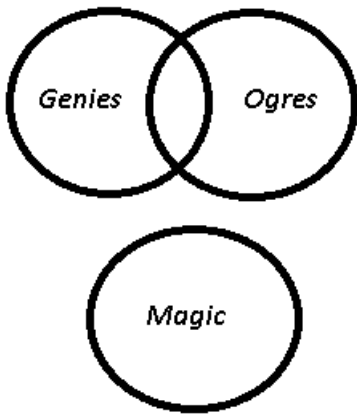
- Statement I: Some genies are ogres
- Statement II: No magic are genies
- Conclusion I: Some ogres are magic
- Conclusion II: All magic are ogres

- 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 ogres are magic = false

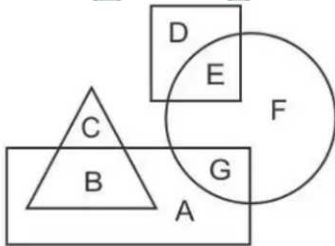
Conclusion II: All magic are ogres = false

Thus, neither conclusion I nor conclusion II follows.

=> Ans - (D)

**Question 44**

In the following figure, rectangle represents Web designers, circle represents Athletes, triangle represents Sculptors and square represents Asians. Which set of letters represents Asians who are not Athletes ?



A DEF

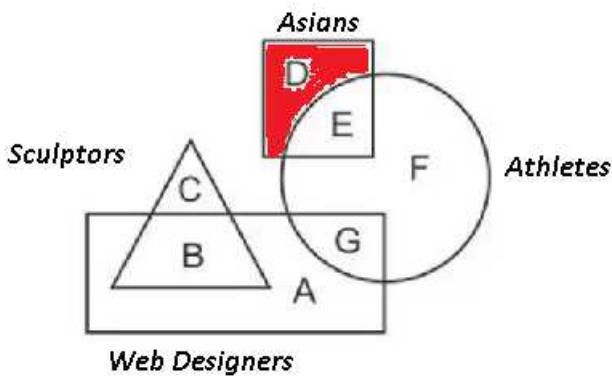
B D

C GF

D DE

Answer: B

Explanation:



Asians who are not Athletes are represented by = D

=> Ans - (B)

**Question 45**

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

RMT, PKR, NIP, ?, JEL

- A KNL
- B LGN
- C MHO
- D KFM

**Answer: B**

**Explanation:**

Series : RMT, PKR, NIP, ?, JEL

The pattern followed in each letter of the terms is :

1st letter : R (-2 letters) = P (-2 letters) = N (-2 letters) = L (-2 letters) = J

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

3rd letter : T (-2 letters) = R (-2 letters) = P (-2 letters) = N (-2 letters) = L

Thus, missing term = **LGN**

=> Ans - (B)

**Question 46**

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

144, 139, 133, 128, ?, 117, 111

- A 124
- B 123
- C 122
- D 126

**Answer: C**

**Explanation:**

'5' and '6' are alternatively subtracted.

$$144 - 5 = 139$$

$$139 - 6 = 133$$

$$133 - 5 = 128$$

$$128 - 6 = \mathbf{122}$$

$$122 - 5 = 117$$

$$117 - 6 = 111$$

=> Ans - (C)

**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 (16, 48, 49)
- B (23, 69, 70)
- C (17, 51, 52)
- D (34, 112, 113)

**Answer:** D

**Explanation:**

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

But in the last option, we have =  $34 \times 3 = 102 \neq 112$

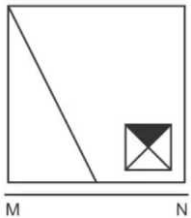
Thus, (34, 112, 113) is the odd one out.

=> Ans - (D)

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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?



A



B



C



D



Answer: A

**Explanation:**

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

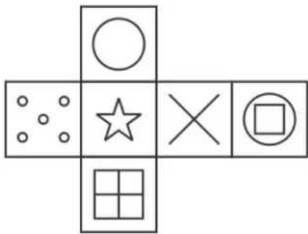
So the slanted line top left will now start from bottom left, thus the last two options will be eliminated.

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

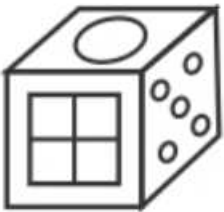
=> Ans - (A)

**Question 49**

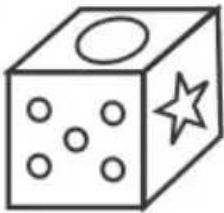
Which of the following cube in the answer figure cannot be made based on the unfolded cube in the question figure.



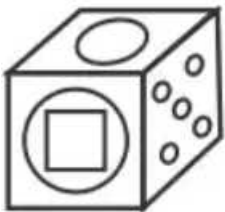
A



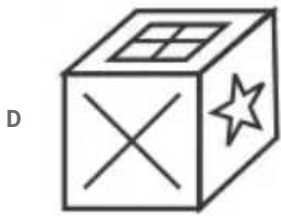
B



C



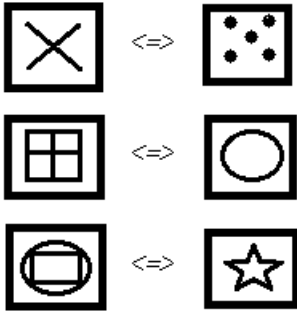




Answer: A

**Explanation:**

When we fold the given figure, the square with a 'star' sign will become the base of the cube and the side which has 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 first option is not possible.

=> Ans - (A)

**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 'B' can be represented by 24, 31 etc and V can be represented by 86, 89 etc. Similarly, you have to identify the set for the word 'VAMP'.

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

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

A 31,78,23,59

B 86,44,20,67

C 13,87,10,67

D 21,88,32,96

Answer: B

**Explanation:**

(A) : 31,78,23,59 = BNIN

(B) : 86,44,20,67 = **VAMP**

(C) : 13,87,10,67 = CYGP

(D) : 21,88,32,96 = KXHO

=> Ans - (B)

# 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

His hard (a)/ punch lay (b)/ him on the road . (c)/ No error (d)

- A His hard
- B punch lay
- C him on the road
- D No error

Answer: B

## SSC CGL Free Mock Test (Latest Pattern)

### Question 52

In 1961, a meteoroid was defined as "a solid object moving in (a)/ interplanetary space, of a size considerably smaller than (b)/ an asteroid and considerably larger than an atom". (c)/ No error (d)

- A In 1961, a meteoroid was defined as "a solid object moving in
- B interplanetary space, of a size considerably smaller than
- C an asteroid and considerably larger than an atom"
- D No error

Answer: C

## 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

He is a man of \_\_\_\_\_.

- A principal
- B efforts
- C principle
- D enthusiasm

Answer: C

### Question 54

Without education we are \_\_\_\_\_ and our lives are useless without any Meaning attached to it.

- A someone
- B uncomplete

- C complete
- D incomplete

**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

#### Abeyance

- A Revival
- B Inactivity
- C Operation
- D Continuation

**Answer: B**

### Question 56

#### Excogitate

- A Communication
- B Die
- C Invent
- D Ignore

**Answer: C**

### Instructions

For the following questions answer them individually

### Question 57

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

#### Altruism

- A Charity
- B Kindness
- C Compassion
- D Spite

**Answer: D**

**SSC CHSL Study Material**

### Instructions

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

**Question 58**

**Peer**

- A Equal
- B Look
- C Match
- D Inferior

**Answer: D**

**Instructions**

For the following questions answer them individually

**Question 59**

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

**An inference is**

**P : the direct, logical one**

**Q : the likely or probable**

**R : conclusion rather than**

- A PRQ
- B QPR
- C RQP
- D QRP

**Answer: D**

**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.**

**The assassin shot the President.**

- A The President shot by the assassin.
- B The President was shoot by the assassin.
- C The President got shot by the assassin.
- D The President was shot by the assassin.

**Answer: D**

**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.**

**He said to me, "I have often told you not to play in dark."**

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- A He said to him that he shouldn't play in dark.
- B He reminded me that he had often told me not to play in dark.
- C He asked him to not play in dark.
- D He asked me that he had told me to not play in dark.

Answer: B

**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 Pharaoh
- B Faraoh
- C Pharoah
- D Pharoar

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. Without habit, personality could not exist; for we could never do a thing twice alike, and \_\_\_\_\_ would be a new person each succeeding moment. The acts which give us our own peculiar \_\_\_\_\_ are our habitual acts—the little things that do themselves moment by moment without care or attention, and are the truest and best expression of our real selves.

Probably \_\_\_\_\_ one of us could be very sure which arm he puts \_\_\_\_\_ the sleeve, or which foot he puts into the shoe, first; and yet each of us \_\_\_\_\_ formed the habit long ago of doing these things in a certain way.

**Question 63**

twice alike, and \_\_\_\_\_ would be a new person

- A hence
- B if
- C but
- D also

Answer: A

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**Question 64**

own peculiar \_\_\_\_\_ are our habitual acts

- A individual
- B individuals
- C individuality

D individualist

Answer: C

Question 65

Probably \_\_\_\_\_ one of us could

A negative

B never

C no

D nor

Answer: C

Question 66

which arm he puts \_\_\_\_\_ the sleeve

A into

B on

C upon

D to

Answer: A

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Question 67

and yet each of us \_\_\_\_\_ formed the habit

A certain

B certainty

C certainly

D be certain

Answer: C

Instructions

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

Question 68

To quit on someone

A To fire someone from a job.

B To cheat with someone.

C To give up on a difficult person.

D To stop helping someone, especially when the support is needed.

Answer: D

**Question 69**

**Excuse my French**

- A Used to apologize for swearing.
- B Said when one cannot speak the language of the other person correctly.
- C Used to make a flimsy excuse.
- D Used when you give up easily.

Answer: A

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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**

**Reduce or decrease in speed or intensity**

- A Expedite
- B Slacken
- C Impel
- D Spur

Answer: B

**Question 71**

**Comfort someone at a time of grief or disappointment**

- A Arouse
- B Pique
- C Fluster
- D Console

Answer: D

**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**

**Whether it (were balancing) the budget or the day-to-day menu, grandma was the expert.**

- A has balancing
- B was balanced

- C was balancing
- D no improvement

Answer: C

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### Question 73

If all of us (had been) philosophical thinkers, we would not have been deceived by scheming politicians all these years.

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

Answer: D

### 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.

Although not all those who study

A-better thinkers and leaders

B-become philosophers, they become

C-logic or philosophy may

- A CAB
- B BCA
- C CBA
- D BAC

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 inundate
- B inundat
- C inunndate
- D inunndat

Answer: A

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## General Awareness

### Instructions

For the following questions answer them individually

### Question 76

Deindustrialisation means: \_\_\_\_\_.

- A uprooting of people from agriculture and planting them in industries
- B movement of workforce from the industrial sector to the service sector
- C a deliberate effort to compel the existing industries to shut down
- D a deliberate effort to promote the new industries

Answer: B

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### Question 77

Why are the Indian workers less skilled than the workers of western countries?

- A Low level of wages
- B Inferior quality of capital provided to labourers
- C High level of illiteracy
- D Strong trade unions

Answer: C

### Question 78

Junagadh inscription is the first inscription of which of the following languages?

- A Prakrit
- B Pali
- C Kharoshthi
- D Sanskrit

Answer: D

### Question 79

Who is considered as a political guru of Mahatma Gandhi?

- A Dadabhai Naoroji
- B Gopal Krishna Gokhale
- C Lala Lajpat Rai
- D Bal Gangadhar Tilak

Answer: B

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### Question 80

What is the main cause of temperature rise in the interior of the Earth?

- A Pressure
- B Breakdown of radioactive substances
- C The pressure and breakdown of radioactive substances
- D No option is correct.

**Answer: C**

### Question 81

The two volcanic islands located in the Indian territory are: \_\_\_\_\_.

- A Kavaratti and New Moore
- B Pamban and Barren
- C Barren and Narcondam
- D Great Andaman and Little Nicobar

**Answer: C**

### Question 82

Sadir is a name of which ancient dance style of India?

- A Kathak
- B Odissi
- C Bharatanatyam
- D Mohiniattam

**Answer: C**

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### Question 83

Which country has made world's first all-electric ship, which can travel up to 80 Km with 200 tons cargo after a two hour charge?

- A Japan
- B South Korea
- C China
- D Australia

**Answer: C**

**Question 84**

Who among the following has been awarded the 'German Green Talent Award 2017' ?

- A Sukhveer Rohilla
- B Pushpa Negrani
- C Shamik Chaudhary
- D Rishi Dholakiya

**Answer: C**

**Question 85**

Where is the commercial capital of Sri Lanka?

- A Trincomalee
- B Colombo
- C Galle
- D Kandy

**Answer: B**

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**Question 86**

Generally atomic radius is measured in which unit?

- A Fermi
- B Millimeter
- C Angstrom
- D Micrometer

**Answer: C**

**Question 87**

Which of the statement(s) about the reaction given below is/are INCORRECT ?

- I. Lead is getting reduced.
- II. Carbon is getting reduced.
- III. Lead oxide is getting reduced.

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

**Answer: A**

**Question 88**

**Who appoints Chairman of Union Public Service Commission in India?**

- A Prime Minister of India
- B Home Minister of India
- C President of India
- D Chief Election Commissioner of India

**Answer:** C

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

**Question 89**

**Part of XVII of India Constitution deals with \_\_\_\_\_.**

- A elections
- B official language
- C Panchyat
- D fundamental rights

**Answer:** B

**Question 90**

**Breaking down of fats from large globules to smaller globules by Bile juice is similar to which of the following?**

- A Emulsification of soaps
- B Esterification of alcohol
- C Fermentation of glucose
- D Eutrophication of water

**Answer:** A

**Question 91**

**Robert Hooke discovered cells by observing them in a \_\_\_\_\_.**

- A onion peel
- B cork slice
- C pond water
- D No option is correct.

**Answer:** B

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

**Question 92**

In September 2017, Government of India approved the revamped 'Khelo India Programme' at a cost of Rs 1756 crore for the period \_\_\_\_\_.

- A 2017-18 to 2019-20
- B 2017-18 to 2018-19
- C 2018-19 to 2019-20
- D 2018-19 to 2020-21

**Answer: A**

**Question 93**

Which organization will launch two missions named GOLD and ICON to explore the ionosphere?

- A National Aeronautics and Space Administration (NASA)
- B Indian Space Research Organisation (ISRO)
- C China National Space Administration (CNSA)
- D European Space Agency (ESA)

**Answer: A**

**Question 94**

In December 2017, as per the announcement made by the finance Ministry, nearly how much amount have banks lost on account of frauds in the fiscal 2016-17?

- A Rs 50,000 crore
- B Rs 5000 crore
- C Rs 17,000 crore
- D Rs 1,000 crore

**Answer: C**

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

**Question 95**

On 26 July 2017, the Parliament passed the Collection of Statistics (Amendment) Bill, 2017. This Bill extends jurisdiction of the act to which state?

- A Manipur
- B Assam
- C Jammu and Kashmir
- D Nagaland

**Answer: C**

**Question 96**

What is the effective resistance (in  $\Omega$ ) of two resistors  $12\ \Omega$  and  $24\ \Omega$  connected in parallel?

- A 36
- B 8
- C 16
- D 72

**Answer: B**

**Question 97**

If the Distance-Time graph is a straight inclined line then it represents \_\_\_\_\_.

- A uniform speed
- B non-uniform speed
- C constant displacement
- D non-uniform velocity

**Answer: A**

## SSC CHSL Study Material

**Question 98**

When warm air rises up and cold air from the surrounding areas rushes in to fill its place then this sets up \_\_\_\_\_ in air.

- A conduction
- B convection
- C radiation
- D agitation

**Answer: B**

**Question 99**

Which of the statements given below are correct?

- A) In 2018 IPL auctions, Sunrisers Hyderabad retained Steve Smith.
- B) Lewis Hamilton won the Formula One 2017 Japanese Grand Prix.
- C) Ma Long won the 2017 San Marino and Rimini's Coast Motorcycle Grand Prix.

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

**Answer: B**

Question 100

In Microsoft Word, \_\_\_\_\_ view enables us to view our document as it would appear in a web browser such as the Internet Explorer.

- A Web Layout
- B Normal Layout
- C Reading Layout
- D Print Layout

Answer: A

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