



## SSC CHSL 15 Jan 2017 Morning Shift

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# General Awareness

## Instructions

For the following questions answer them individually

### Question 1

**What is the mascot of Linux Operating System?**

- A Bear
- B Penguin
- C Lion
- D Whale

**Answer: B**

## SSC CHSL Free Mock Test

### Question 2

**Dynamite was invented by?**

- A Jean-Antoine Nollet
- B Alfred Nobel
- C Joseph Nicephore Niepce
- D Ted Nelson

**Answer: B**

### Question 3

**The instrument used to measure Blood Pressure is**

- A Sphygmomano-meter
- B Thermometer
- C ECG
- D Stethoscope

**Answer: A**

**Question 4**

**Which of the following induces nitrogen fixation in soil?**

- A Protozoa
- B Bacteria
- C Fungi
- D Algae

**Answer: B**

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

**Question 5**

**Which of the following is the largest known cell?**

- A Eukaryotic Cell
- B Prokaryotic Cell
- C Mycoplasma
- D Ostrich Eggs

**Answer: D**

**Question 6**

**The lowest layer of atmosphere is called .....**

- A Stratosphere
- B Troposphere
- C Genosphere
- D Exosphere

**Answer: B**

**Question 7**

**Which chemical is used to generate light, to weld metals?**

- A Ethylene
- B Acetylene
- C Glycol
- D Oxalic acid

**Answer: B**

## SSC CGL MTS Previous Papers (DOWNLOAD PDF)

### Question 8

**Who built Hawa Mahal?**

- A Guru Ramdas
- B Maharaja Pratap Singh
- C Rabindra Nath Tagore
- D British Govt

**Answer: B**

### Question 9

**Dandiya is a popular dance form of.....**

- A Punjab
- B Gujarat
- C Maharashtra
- D Madhya Pradesh

**Answer: B**

### Question 10

**If quantity of good X demanded increases from 2300 to 2700 when price of good Y increases from Rs. 45 to Rs. 55, find Arc Cross elasticity of demand?**

- A 4

**B** 1.25

**C** 0.25

**D** 0.8

**Answer:** D

## **SSC CGL GD Constable Previous Papers (DOWNLOAD PDF)**

### **Question 11**

**Which of the following is not an assumption of perfect competition?**

**A** There are many buyers and sellers

**B** Average total costs continually decrease.

**C** The good sold by all sellers in the market is assumed to be homogeneous.

**D** Buyers and sellers in the market are assumed to have perfect information.

**Answer:** B

### **Question 12**

**The association of animals in which both the partners are benefitted is known as**

**A** Ammansalism

**B** Commensalism

**C** Colony

**D** Mutualism

**Answer:** D

### **Question 13**

**Keoladeo Ghana National Park in Rajasthan was formerly called as**

**A** Salim Ali Bird Sanctuary

**B** Khijadia Bird Sanctuary

**C** Bharatpur Bird Sanctuary

D Mayani Bird Sanctuary

Answer: C

## SSC Stenographer Previous Papers (DOWNLOAD PDF)

Question 14

Mona Lisa is painted on

A Stone

B Wood

C Paper

D Metal sheet

Answer: B

Question 15

What is the study of Moon called?

A Selenology

B Cosmology

C Iridology

D Planetology

Answer: A

Question 16

Which is the largest and deepest ocean?

A Arctic

B Pacific

C Atlantic

D Indian

Answer: B

## SSC CGL Previous Papers (DOWNLOAD PDF)

### Question 17

What is the other name of Chanakya ?

- A Rajasekhara
- B Tejasvi
- C Kautilya
- D Vatsyayana

Answer: C

### Question 18

Jawaharlal Nehru was born in the year

- A 1789
- B 1839
- C 1889
- D 1939

Answer: C

### Question 19

What is the venue of 2020 Summer Olympics?

- A Tokyo
- B Seoul
- C Dubai
- D Singapore

Answer: A

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

**Question 20**

**For what is Radiocarbon dating technique used?**

- A To estimate soil contamination
- B To estimate the amount of water in fossils
- C To estimate the age of fossils
- D To estimate the quality of soil

**Answer: C**

**Question 21**

**The strain produced in a body is directly proportional to the stress applied on it, is called .....**

- A Dollar's law
- B Hooke's law
- C Miller's law
- D Kepler's law

**Answer: B**

**Question 22**

**Which article specifies Imposition of President's Rule in States?**

- A Article 356
- B Article 343
- C Article 51A
- D Article 80

**Answer: A**

## **SSC Stenographer Previous Papers (Latest Pattern)**

**Question 23**

**Who among the following is also the Chairman of the Planning Commission?**



- A Defence Minister
- B Attorney General
- C Prime Minister
- D Finance Minister

**Answer: C**

**Question 24**

**The first woman Chess Grandmaster from India is**

- A S. Vijayalakshmi
- B Tania Sachdev
- C Harika Dronavalli
- D Richa Pujari

**Answer: A**

**Question 25**

**Who wrote "Romeo & Juliet"?**

- A Jane Austen
- B Mark Twain
- C Toni Morrison
- D William Shakespeare

**Answer: D**

## **SSC GD Constable Free Mock Test (Latest Pattern)**

### **Mathematics**

**Instructions**

For the following questions answer them individually

### Question 26

Two numbers are 50% and 90% lesser than a third number. By how much percent is the second number to be enhanced to make it equal to the first number?

- A 80 percent
- B 40 percent
- C 44.44 percent
- D 400 percent

**Answer:** D

#### **Explanation:**

Let third number =  $100x$

First number is 50% less than  $100x$  and second number is 90% less than  $100x$

=> First number =  $50x$  and Second number =  $10x$

To make second number equal to first number, it should be enhanced by =  $50x - 10x = 40x$

=> Required % =  $\frac{40x}{10x} \times 100 = 4 \times 100 = 400\%$

=> Ans - (D)

## SSC MTS Free Mock Test (Latest Pattern)

### Question 27

Reduce 2714/5074 to lowest terms.

- A 17/23
- B 29/43
- C 23/43
- D 31/37

**Answer:** C

#### **Explanation:**

Expression :  $\frac{2714}{5074}$

Dividing both numerator and denominator by 2, we get =  $\frac{1357}{2537}$

Similarly, dividing by 59, we get :

$$= \frac{23}{43}$$

=> Ans - (C)

### Question 28

What is the value of cosec  $120^\circ$

A  $2/\sqrt{3}$

B 2

C  $-2/\sqrt{3}$

D -2

Answer: A

### Explanation:

Expression : cosec  $120^\circ$

$$= \operatorname{cosec}(180 - 60)$$

$$= \operatorname{cosec}(60)$$

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

=> Ans - (A)

### Question 29

Volume of a cylinder is 770 cubic cm. If circumference of its base is 22 cm, what will be the curved surface area of the cylinder? (Take  $\pi = 22/7$ )

A 440 sq cms

B 880 sq cms

C 220 sq cms

D 660 sq cms

Answer: A

### Explanation:

Let radius of base of cylinder =  $r$  cm and height =  $h$  cm

$$\text{Circumference of base} = 2\pi r = 22$$

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

$$\Rightarrow r = \frac{7}{2} = 3.5 \text{ cm}$$

$$\text{Volume of cylinder} = \pi r^2 h = 770$$

$$\Rightarrow \frac{22}{7} \times (3.5)^2 \times h = 770$$

$$\Rightarrow 38.5 \times h = 770$$

$$\Rightarrow h = \frac{770}{38.5} = 20 \text{ cm}$$

Curved surface area of cylinder =  $2\pi rh$

$$\Rightarrow 22 \times 20 = 440 \text{ cm}^2$$

$\Rightarrow$  Ans - (A)

## SSC CPO Free Mock Test (Latest Pattern)

### Question 30

What will be the sum of the measures all the interior angles of a polygon having 14 sides?

A 2520°

B 2160°

C 2880°

D 3240°

Answer: B

#### Explanation:

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

Number of sides of polygon,  $n = 14$

$\Rightarrow$  Sum of interior angles =  $(14 - 2) \times 180^\circ$

=  $12 \times 180 = 2160^\circ$

$\Rightarrow$  Ans - (B)

### Question 31

A thief is stopped by a policeman from a distance of 350 metres. When the policeman starts the chase, the thief also starts running. Assuming the speed of the thief as 5 km/h and that of the policeman as 7 km/h, how far the thief would have run, before he is over-taken?

A 875 metres

B 700 metres

C 1050 metres

D 525 metres

Answer: A

**Explanation:**

Since the thief is escaping from the police man, thus they both are running in same direction.

Speed of thief = 5 km/hr and speed of policeman = 7 km/hr

=> Relative speed =  $7 - 5 = 2$  km/hr

Distance between them = 350 metres = 0.35 km

=> Time taken =  $\frac{\text{distance}}{\text{speed}}$

$$= \frac{0.35}{2} = \frac{7}{40} \text{ hr}$$

∴ Distance covered by thief before he was caught =  $5 \times \frac{7}{40}$

= 0.875 km = 875 metres

=> Ans - (A)

**Question 32**

A does 75% of a work in 25 days. He then calls in B and they together finish the remaining work in 5 days. How long B alone would take to do the whole work?

- A 50 days
- B 80 days
- C 24 days
- D 37.5 days

**Answer:** A

**Explanation:**

Let total work to be done = 100 units

Work done by A in 25 days =  $\frac{75}{100} \times 100 = 75$  units

A's efficiency =  $\frac{75}{25} = 3$  units/day

Remaining work =  $100 - 75 = 25$  units

Let B's efficiency =  $x$  units/day

Now, A and B complete remaining work in 5 days

$$\Rightarrow (3 + x) \times 5 = 25$$

$$\Rightarrow 3 + x = \frac{25}{5} = 5$$

$$\Rightarrow x = 5 - 3 = 2$$

∴ Time taken by B to complete the whole work alone =  $\frac{100}{2} = 50$  days

=> Ans - (A)

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### Question 33

The average of 29 consecutive even integers is 60. The highest of these integers is

- A 88
- B 118
- C 176
- D 120

**Answer:** A

### Explanation:

The 29 consecutive even integers will form an arithmetic progression with common difference,  $d = 2$

Let the first term be  $a$

$$\text{Average of 29 integers} = 60, \Rightarrow \text{Sum} = 29 \times 60 = 1740$$

$$\Rightarrow \text{Sum of these integers} = \frac{n}{2}[2a + (n - 1)d] = 1740$$

$$\Rightarrow \frac{29}{2}[2a + (28 \times 2)] = 1740$$

$$\Rightarrow 29(a + 28) = 1740$$

$$\Rightarrow (a + 28) = \frac{1740}{29} = 60$$

$$\Rightarrow a = 60 - 28 = 32$$

$$\therefore \text{The highest integer or the 29th term, } A_{29} = a + (29 - 1)d$$

$$= 32 + (28 \times 2) = 32 + 56 = 88$$

$$\Rightarrow \text{Ans - (A)}$$

### Question 34

What should be added to  $5(2x-y)$  to obtain  $4(2x - 3y) + 5(x + 4y)$ ?

- A  $3x - 13y$
- B  $3x + 13y$
- C  $13x - 3y$
- D  $13x + 3y$

**Answer:** B

**Explanation:**

Let  $m$  should be added to  $5(2x-y)$  to obtain  $4(2x - 3y) + 5(x + 4y)$

$$\Rightarrow (m) + [5(2x - y)] = 4(2x - 3y) + 5(x + 4y)$$

$$\Rightarrow m + 10x - 5y = 8x - 12y + 5x + 20y$$

$$\Rightarrow m + 10x - 5y = 13x + 8y$$

$$\Rightarrow m = (13x - 10x) + (8y + 5y)$$

$$\Rightarrow m = 3x + 13y$$

$\Rightarrow$  Ans - (B)

**Question 35**

If  $3(2 - 3x) < 2 - 3x \geq 4x - 6$ ; then  $x$  can take which of the following values?

A 2

B -1

C -2

D 1

**Answer:** D

**Explanation:**

Expression 1 :  $3(2 - 3x) < 2 - 3x$

$$\Rightarrow 6 - 9x < 2 - 3x$$

$$\Rightarrow 9x - 3x > 6 - 2$$

$$\Rightarrow 6x > 4$$

$$\Rightarrow x > \frac{2}{3} \text{ -----(i)}$$

Expression 2 :  $2 - 3x \geq 4x - 6$

$$\Rightarrow 4x + 3x \leq 2 + 6$$

$$\Rightarrow 7x \leq 8$$

$$\Rightarrow x \leq \frac{8}{7} \text{ -----(ii)}$$

Combining inequalities (i) and (ii), we get :  $\frac{2}{3} < x \leq \frac{8}{7}$

The only value that  $x$  can take among the options = 1

$\Rightarrow$  Ans - (D)

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

**Question 36**

If  $\sec^2 A + \operatorname{cosec}^2 A = X$ , then the value of X is

- A  $\tan^2 A \cot^2 A$
- B  $\sin A \cos A$
- C  $\sec A \operatorname{cosec} A$
- D  $\sec^2 A \operatorname{cosec}^2 A$

**Answer: D**

**Explanation:**

Expression :  $\sec^2 A + \operatorname{cosec}^2 A = X$

$$\begin{aligned} &= \frac{1}{\cos^2 A} + \frac{1}{\sin^2 A} \\ &= \frac{\sin^2 A + \cos^2 A}{\sin^2 A \cos^2 A} = \frac{1}{\sin^2 A \cos^2 A} \\ &= \sec^2 A \operatorname{cosec}^2 A \end{aligned}$$

=> Ans - (D)

**Question 37**

The effective annual rate of interest corresponding to a nominal rate of 15% per annum payable half-yearly is

- A 15.56 percent
- B 30 percent
- C 31.13 percent
- D 15 percent

**Answer: A**

**Explanation:**

Let sum be = Rs.  $100x$

Rate of interest = 15% under compound interest half yearly

$$\text{Amount after 1 year} = P \left(1 + \frac{R}{2 \times 100}\right)^{2 \times T}$$

$$= 100x \left(1 + \frac{15}{200}\right)^{2 \times 1}$$

$$= 100x \left(\frac{43}{40}\right)^2 = \frac{43 \times 43 \times x}{16}$$

$$= \text{Rs. } 115.5625x$$

$$\Rightarrow \text{Compound Interest} = \text{Rs. } (115.5625x - 100x) = \text{Rs. } 15.5625x$$



$$\therefore \text{Effective rate of interest} = \frac{15.5625x}{100x} \times 100$$

$$\approx 15.56\%$$

=> Ans - (A)

### Question 38

If  $(4x - 3) - (2x + 1) = 4$ , then the value of  $x$  is

A 0

B 1

C 4

D 3

Answer: C

### Explanation:

$$\text{Expression : } (4x - 3) - (2x + 1) = 4$$

$$\Rightarrow 4x - 3 - 2x - 1 = 4$$

$$\Rightarrow 2x - 4 = 4$$

$$\Rightarrow 2x = 4 + 4 = 8$$

$$\Rightarrow x = \frac{8}{2} = 4$$

=> Ans - (C)

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### Question 39

25% discount is offered on an item. By applying a promo code a customer wins 10% cash back. What is the effective discount?

A 35.75 percent

B 32.5 percent

C 35 percent

D 12.5 percent

Answer: B

### Explanation:

Let the marked price of item = Rs.  $100x$

$$\text{Amount after 25 \% discount} = 100x - \frac{25}{100} \times 100x$$

$$= 100x - 25x = \text{Rs.}75x$$

$$\text{Selling price after 10 \% cashback} = 75x - \frac{10}{100} \times 75x$$

$$= 75x - 7.5x = \text{Rs.}67.5x$$

$$\Rightarrow \text{Total discounted amount} = 100x - 67.5x = \text{Rs.}32.5x$$

$$\therefore \text{Effective discount} = \frac{32.5x}{100x} \times 100 = 32.5\%$$

$\Rightarrow$  Ans - (B)

#### Question 40

Which of the following equations has real and distinct roots?

A  $3x^2 - 6x + 2 = 0$

B  $3x^2 - 6x + 3 = 0$

C  $x^2 - 8x + 16 = 0$

D  $4x^2 - 8x + 4 = 0$

Answer: A

#### Explanation:

A quadratic equation :  $ax^2 + bx + c = 0$  has real and distinct roots iff Discriminant,  $D = b^2 - 4ac > 0$

(A) :  $3x^2 - 6x + 2 = 0$

$$\Rightarrow D = (-6)^2 - 4(3)(2) = 36 - 24 = 12$$

(B) :  $3x^2 - 6x + 3 = 0$

$$\Rightarrow D = (-6)^2 - 4(3)(3) = 36 - 36 = 0$$

(C) :  $x^2 - 8x + 16 = 0$

$$\Rightarrow D = (-8)^2 - 4(1)(16) = 64 - 64 = 0$$

(D) :  $4x^2 - 8x + 4 = 0$

$$\Rightarrow D = (-8)^2 - 4(4)(4) = 64 - 64 = 0$$

Thus, the equation :  $3x^2 - 6x + 2 = 0$  has real and distinct roots.

#### Question 41

In a triangle the length of the side opposite the angle which measures  $30^\circ$  is 9 cm, what is the length of the side opposite to the angle which measures  $60^\circ$ ?

A  $3\sqrt{3}$  cm

B  $3/2$  cm

C  $9/2$  cm

D  $9\sqrt{3}$  cm

**Answer:** D

**Explanation:**

In the given triangle, two angles are  $30^\circ$  and  $60^\circ$ ,  $\Rightarrow$  Third angle =  $90^\circ$

In a 30-60-90 triangle, the hypotenuse is always twice as long as the side opposite the  $30^\circ$  angle and the side opposite the  $60^\circ$  angle is  $\sqrt{3}$  times as long as the side opposite the  $30^\circ$  angle.

The ratio of sides opposite  $30^\circ$ ,  $60^\circ$  and  $90^\circ$  angles =  $1 : \sqrt{3} : 2$

Length of the side opposite the  $30^\circ$  angle = 9 cm

$\Rightarrow$  Length of side opposite the  $60^\circ$  angle =  $9\sqrt{3}$  cm

$\Rightarrow$  Ans - (D)

## SSC CHSL Syllabus

### Question 42

For triangle ABC, what would be the equation of median AD if co-ordinates of A, B and C are  $(-5,4)$ ,  $(-4,0)$  and  $(-2,2)$  respectively?

A  $3x - 2y = -11$

B  $3x + 2y = 7$

C  $3x + 2y = -7$

D  $3x - 2y = 11$

**Answer:** C

**Explanation:**

Co-ordinates of triangle ABC are  $A(-5,4)$ ,  $B(-4,0)$  and  $C(-2,2)$

Median AD will bisect BC at D and D will be the mid point of BC.

Thus, coordinates of D are =  $\left(\frac{-4-2}{2}, \frac{0+2}{2}\right)$

=  $\left(\frac{-6}{2}, \frac{2}{2}\right) = (-3, 1)$

Now, equation of line passing through  $(x_1, y_1)$  and  $(x_2, y_2)$  is :  $(y - y_1) = \frac{y_2 - y_1}{x_2 - x_1}(x - x_1)$

$\Rightarrow$  Equation of AD where  $A(-5,4)$  and  $D(-3,1)$  is :

$\Rightarrow (y - 4) = \frac{(1-4)}{(-3+5)}(x + 5)$

$\Rightarrow (y - 4) = \frac{-3}{2}(x + 5)$

$$\Rightarrow 2y - 8 = -3x - 15$$

$$\Rightarrow 3x + 2y = -7$$

$\Rightarrow$  Ans - (C)

#### Question 43

A wholesaler sells a watch to a retailer at a gain of 37% and the retailer sells it to a customer at a loss of 25%. If the customer pays Rs 2,620.125, what had it cost the wholesaler?

A Rs 2550

B Rs 2692

C Rs 3327

D Rs 2408

**Answer:** A

#### Explanation:

For the wholesaler,

Let the cost price = Rs.  $100x$

With profit of 37%, Selling price =  $\frac{137}{100} \times 100x = Rs.137x$

For the retailer,

Cost price = Rs.  $137x$

With a loss of 25%, Selling price =  $\frac{75}{100} \times 137x = Rs.102.75x$

For the customer,

Cost price =  $102.75x = 2620.125$

$$\Rightarrow x = \frac{2620.125}{102.75} = 25.5$$

$\therefore$  Cost price for retailer =  $100 \times 25.5 = Rs.2550$

#### Question 44

The ratio of present ages of Rasika and Shami is 7:5. After 17 years the ratio of their ages will be 12:11. What is Rasika's present age?

A 5

B 80

C 16

D 7

**Answer: D**

**Explanation:**

Let Rasika's present age =  $7x$  years and Shami's present age =  $5x$  years

$$\text{According to ques, } \Rightarrow \frac{7x+17}{5x+17} = \frac{12}{11}$$

$$\Rightarrow 77x + 187 = 60x + 204$$

$$\Rightarrow 77x - 60x = 204 - 187$$

$$\Rightarrow 17x = 17$$

$$\Rightarrow x = \frac{17}{17} = 1$$

$\therefore$  Rasika's age =  $7 \times 1 = 7$  years

$\Rightarrow$  Ans - (D)

## SSC CHSL Expected Cutt off

**Question 45**

If  $\tan(A + B) = X$ , then the value of X is

A  $(\tan A - \tan B)/(1 + \tan A \tan B)$

B  $(\tan A + \tan B)/(1 - \tan A \tan B)$

C  $(\tan A + \tan B)/(1 + \tan A \tan B)$

D  $(\tan A - \tan B)/(1 - \tan A \tan B)$

**Answer: B**

**Explanation:**

Expression :  $\tan(A + B) = X$

$$= \frac{\sin(A+B)}{\cos(A+B)}$$

$$= \frac{\sin A \cos B + \cos A \sin B}{\cos A \cos B - \sin A \sin B}$$

Dividing both numerator and denominator by  $(\cos A \cos B)$

$$= \frac{\sin A \cos B + \cos A \sin B}{\cos A \cos B} \div \frac{\cos A \cos B - \sin A \sin B}{\cos A \cos B}$$

$$= \frac{\tan A + \tan B}{1 - \tan A \tan B}$$

$\Rightarrow$  Ans - (B)

**Question 46**

The distance between the points (7,7) and (k,-5) is 13. Find k?

- A -2
- B 4
- C -4
- D 2

**Answer: D**

**Explanation:**

Distance between two points  $(x_1, y_1)$  and  $(x_2, y_2) = \sqrt{(y_2 - y_1)^2 + (x_2 - x_1)^2}$

Now, distance between points  $(7,7)$  and  $(k,-5) = 13$

$$\Rightarrow \sqrt{(-5 - 7)^2 + (k - 7)^2} = 13$$

$$\Rightarrow 144 + (k^2 - 14k + 49) = (13)^2 = 169$$

$$\Rightarrow k^2 - 14k = 169 - 49 - 144$$

$$\Rightarrow k^2 - 14k + 24 = 0$$

$$\Rightarrow k^2 - 12k - 2k + 24 = 0$$

$$\Rightarrow k(k - 12) - 2(k - 12) = 0$$

$$\Rightarrow (k - 12)(k - 2) = 0$$

$$\Rightarrow k = 12, 2$$

$\Rightarrow$  Ans - (D)

**Question 47**

Read the data answer the questions

	Boys	Girls
Medical	25	80
Engineering	75	20

What percent students who choose engineering are girls?

- A 21.05
- B 10
- C 20
- D 26.67

**Answer: A**

**Explanation:**

Number of girls who chose engineering = 20

Total number of engineers = 75 + 20 = 95

=> Percent of the girls who choose engineering =  $\frac{20}{95} \times 100$

=  $\frac{400}{19} = 21.05\%$

=> Ans - (A)

## SSC CHSL Study Material

**Question 48**

Read the data and answer the given questions

	Cumulative production
January	390
February	1000
March	1540
April	2060
May	2580
June	2870

How many cars were manufactured in the month of April and May?

- A 810
- B 1040
- C 1060
- D 4640

**Answer:** B

**Explanation:**

Number of cars produced in :

January = 390

February = 1000 - 390 = 610

March = 1540 - 1000 = 540

April = 2060 - 1540 = 520

May = 2580 - 2060 = 520

June = 2870 - 2580 = 290

=> Number of cars that were manufactured in the month of the April and may = 520 + 520 = 1040

=> Ans - (B)

### Question 49

Read the data and answer the given questions

Day of the week	Distance jogged (in km)
Monday	4
Tuesday	5
Wednesday	4
Thursday	1.5
Friday	4.5
Saturday	5
Sunday	2.5

If 400 calories are burned by jogging 5 km, how many calories were burnt in the given week?

- A 2070 calories
- B 2170 calories
- C 2120 calories
- D 2020 calories

**Answer:** C

#### Explanation:

Total distance jogged in entire week

$$= 4 + 5 + 4 + 1.5 + 4.5 + 5 + 4 = 26.5 \text{ km}$$

Calories burned after jogging 5 km = 400 calories

$$\Rightarrow \text{Calories burned after jogging 26.5 km} = \frac{400}{5} \times 26.5$$

$$= 80 \times 26.5 = 2120 \text{ calories}$$

$\Rightarrow$  Ans - (C)

### Question 50

Read the data and answer the given questions?

Items	Yearly expence in lakhs
Raw Materilas	11
Labour	3
Rent	4
Interest	6
Taxes	4

Rent and taxes are what percent of the total Expenses?

- A 21.32 percent



**B** 28.57 percent

**C** 14.07 percent

**D** 35.82 percent

**Answer: B**

**Explanation:**

Yearly expense in rent and taxes (in lakhs) = 4 + 4 = 8

Total expenses (in lakhs) = 11 + 3 + 4 + 6 + 4 = 28

=> Required % =  $\frac{8}{28} \times 100$

=  $\frac{200}{7} \approx 28.57\%$

=> Ans - (B)

**SSC CHSL Free App**

**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'.

Please put on a note(A)/declaring that (B)/Monday will be a holiday.(C)/No error(D)

**A** A

**B** B

**C** C

**D** D

**Answer: A**

**SSC CHSL Free Mock Test**

**Question 52**

Select the antonym of  
veteran

- A youthful
- B pliable
- C expert
- D amateur

**Answer: D**

#### Question 53

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

**To make a long story short**

- A A very long boring narrative
- B One should always communicate with fewer words wherever possible
- C Used to end an account of events quickly
- D When you want the complete details and not just the summary

**Answer: C**

#### Question 54

Select the synonym of  
**incursion**

- A hurt
- B retreat
- C aggression
- D cut

**Answer: C**

## SSC CHSL Previous Papers (DOWNLOAD PDF)

#### Question 55

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

**To steal someone's thunder**

- A To share the secret of a person just before that person was supposed to receive praise
- B To defuse the ego of an egoistic person
- C To plagiarize work done by others
- D To do a job before another person can do it and take away the credit

**Answer: D**

#### Question 56

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'.

We are pleased that(A)/our daughter is married with(B)/such a nice man.(C)/No error(D)

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

**Answer: B**

#### Question 57

Rearrange the parts of the sentence in correct order:

Thus,

P-a developing economy also needs

Q-to have some notion of external balance

R-at the very least,

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

**Answer: A**

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

**Question 58**

In the following question, a sentence has been given in Active/Passive voice. Out of four alternatives suggested, select the one which best expresses the same sentence in Passive/Active voice.

**When did Rohit return my bike?**

- A When was my bike returned by Rohit?
- B When was it that Rohit returned my bike?
- C Rohit returned my bike when?
- D When did my bike come back from Rohit?

**Answer: A**

**Question 59**

**Improve the bracketed part of the sentence.**

**Both the families were invited but neither (had accepted) our invitation.**

- A accepted
- B did accept
- C has accepted
- D no improvement

**Answer: A**

**Question 60**

**Select the word with the correct spelling.**

- A sentreis
- B surgeons
- C sibblings
- D imolate

**Answer: B**

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

**Question 61**

**Select the synonym of rot**

- A mature
- B stagnate
- C smell
- D decay

**Answer: D**

**Question 62**

**Choose the antonym of fatigue**

- A restive
- B slouch
- C vigour
- D tire

**Answer: C**

**Question 63**

**Improve the bracketed part of the sentence. You are what you (have eaten).**

- A will eat
- B eat
- C shall eat
- D no improvement

**Answer: B**

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

**Question 64**

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

To regard with disgust and hatred.

- A tease
- B abhor
- C ridicule
- D sneer

**Answer: B**

**Question 65**

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

The investigations revealed a .....lack of efficiency in the functioning of the airlines.

- A plain
- B obscure
- C conspicuous
- D concealed

**Answer: C**

**Question 66**

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

In India, Hindi is the most .....spoken language.

- A profusely
- B richly
- C deeply
- D widely

**Answer: D**

## SSC CGL Previous Papers (DOWNLOAD PDF)

### Question 67

Select the word with the correct spelling.

- A wrapping
- B bargundy
- C streses
- D stenchhes

Answer: A

### Question 68

In the following question, a sentence has been given in Direct/Indirect speech. Out of the four alternatives suggested, select the one which best express the same sentence in Indirect/Direct speech.

The coach said, "Bravo! Puneet, you have done well."

- A The coach applauded Puneet saying that he had done well.
- B The coach said to Puneet Bravo, he had done well.
- C The coach congratulated Puneet, saying he did well.
- D The coach said to Puneet, that he did well.

Answer: A

### Question 69

Rearrange the parts of the sentence in correct order.

Gone are the days

P-about foreign trade and payments

Q-and not really worried

R-when we could think of ourselves as a closed economy

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

Answer: B

## SSC CGL Free Mock Test (Latest Pattern)

### Question 70

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

unable to be destroyed or removed.

A ineradicable

B habit

C worn

D fixed

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.

An ideal policeman is a myth. You come .....(1).....him only in crime fiction. ....(2).....elusive is 'good policing', an idea .....(3).....even the best of criminal justice thinkers have found it difficult to define. This is why, in what is a chaotic world, we have to reluctantly .....(4).....for an imperfect policeman and .....(5).....inadequate system.

### Question 71

(1)

A over

B cross

C across

D to

Answer: C

### Question 72

(2)

A Fairly



- B Justly
- C Equally
- D Uniformly

**Answer: C**

## SSC Stenographer Previous Papers (Latest Pattern)

**Question 73**

(3)

- A that
- B which
- C whom
- D who

**Answer: A**

**Question 74**

(4)

- A decide
- B pay
- C adjust
- D settle

**Answer: D**

**Question 75**

(5)

- A a
- B an
- C this

D our

Answer: B

## SSC GD Constable Free Mock Test (Latest Pattern)

### Reasoning

#### Instructions

For the following questions answer them individually

#### Question 76

Select the related word/letters/number from the given alternatives. Subhas Chandra Bose:Orissa:: Mahatma Gandhi: ?

A Bihar

B Jammu and Kashmir

C Gujarat

D Delhi

Answer: C

#### Explanation:

Subhas Chandra Bose was born in Orissa, similarly Mahatma Gandhi was born in Gujarat.

=> Ans - (C)

## SSC MTS Free Mock Test (Latest Pattern)

#### Question 77

Select the related word/letters/number from the given alternatives. VERMIN :? :: ORDERS : ERSORD

A MNIVER

B MINERV

C MINVRE

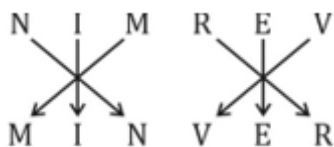
D MINVER

Answer: D

#### Explanation:

Expression = VERMIN : ? :: ORDERS : ERSORD

The pattern followed is :



Thus, VERMIN : **MINVER**

=> Ans - (D)

### Question 78

Select the related word/letters/number from the given alternatives. MANTLE : SFTYRJ :: PARROT : ?

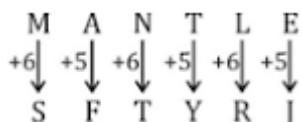
- A VFXWUY
- B VXFUWY
- C VFXWYU
- D VFXUWY

**Answer:** A

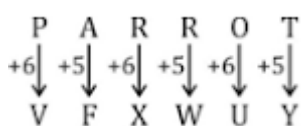
### Explanation:

Expression = MANTLE : SFTYRJ :: PARROT : ?

The pattern followed is :



Similarly, for PARROT :



=> Ans - (A)

### Question 79

Select the related word/letters/number from the given alternatives.

545 : 196 :: 173 : ?

- A 72
- B 121
- C 84

D 41

Answer: B

**Explanation:**

Expression =  $545 : 196 :: 173 : ?$

The second number is the square of the sum of digits of first number.

Eg :-  $(5 + 4 + 5)^2 = (14)^2 = 196$

Similarly,  $(1 + 7 + 3)^2 = (11)^2 = 121$

=> Ans - (B)

## SSC CPO Free Mock Test (Latest Pattern)

**Question 80**

Find out the odd word/letters/number/number pair from the given alternatives.

A Kuchipudi

B Kathak

C Bhangra

D Pongal

Answer: D

**Explanation:**

Pongal is a festival, others are dance forms, hence it is the odd one out.

=> Ans - (D)

**Question 81**

Find out the odd word/letters/number/number pair from the given alternatives.

A PE

B MV

C GP

D DM

Answer: A

**Explanation:**

(A) : P (-11 letters) = E

(B) : M (+9 letters) = V

(C) : G (+9 letters) = P

(D) : D (+9 letters) = M

=> Ans - (A)

#### Question 82

Find out the odd word/letters/number/number pair from the given alternatives.

A 512

B 216

C 343

D 719

Answer: D

#### Explanation:

$512 = 8^3$ ,  $216 = 6^3$  and  $343 = 7^3$ , but 719 is not a perfect cube, hence it is the odd one out.

=> Ans - (D)

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#### Question 83

Find out the odd word/letters/number/number pair from the given alternatives.

A 2543

B 2192

C 9362

D 3713

Answer: C

#### Explanation:

The sum of digits of the numbers is 14, but  $9 + 3 + 6 + 2 = 20$ , hence 9362 is the odd one out.

=> Ans - (C)

#### Question 84

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

?, Charles Cornwallis, Lord Dalhousie, Lord Canning, Lord Curzon

- A Warren Hastings
- B Lord Irwin
- C Lord Mountbatten
- D C. Rajagopalachari

**Answer:** A

**Explanation:**

Governor generals of India in chronological order.

= Warren Hastings -> Charles Cornwallis -> Lord Dalhousie -> Lord Canning -> Lord Curzon

=> Ans - (A)

**Question 85**

**A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. CD,HI,NO,UV,?**

- A LM
- B NP
- C CD
- D NF

**Answer:** C

**Explanation:**

Expression : CD,HI,NO,UV,?

The pattern followed in each letter of the terms is :

1st letter : C (+5 letters) = H (+6 letters) = N (+7 letters) = U (+8 letters) = C

2nd letter : D (+5 letters) = I (+6 letters) = O (+7 letters) = V (+8 letters) = D

Thus, missing term = **CD**

=> Ans - (C)

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

**Question 86**

**A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. IB,QD,XH,DP,?**

- A KL
- B KI
- C GH
- D IF

**Answer:** D

**Explanation:**

Expression : IB,QD,XH,DP,?

The pattern followed in each letter of the terms is :

1st letter : I (+8 letters) = Q (+7 letters) = X (+6 letters) = D (+5 letters) = I

2nd letter : B (+2 letters) = D (+4 letters) = H (+8 letters) = P (+16 letters) = F

Thus, missing term = **IF**

=> Ans - (D)

**Question 87**

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

**13,25,49,85, ?**

- A 331
- B 132
- C 133
- D 381

**Answer:** C

**Explanation:**

Multiples of 12 are added.

$$13 + 12 = 25$$

$$25 + 24 = 49$$

$$49 + 36 = 85$$

$$85 + 48 = \mathbf{133}$$

=> Ans - (C)

### Question 88

In the following question, two statements are given each followed by two conclusions I and II. You have to consider the statements to be true even if they seem 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 young scientists are open-minded.
- (II) No open-minded men are superstitious.

**Conclusions:**

- (I) No scientist is superstitious.
- (II) No young people are superstitious.

- A Conclusion I follows
- B Conclusion II follows
- C Neither I nor II follows
- D Both I and II follows

**Answer: C**

## SSC CHSL Free Videos (Youtube)

### Question 89

Five friends are standing in a line. Nishu is taller than Riya but shorter than Pooja. Amrita is the shortest. Riya is shorter than Nishu but taller than Nikita. Who is the second tallest?

- A Amrita
- B Pooja
- C Riya
- D Nishu

**Answer: D**

**Explanation:**

Nishu is taller than Riya but shorter than Pooja,  $\Rightarrow$  Pooja > Nishu > Riya

Also, Amrita is the shortest.

Riya is shorter than Nishu but taller than Nikita,  $\Rightarrow$  Nishu > Riya > Nikita

Combining above statements, we get : **Pooja > Nishu > Riya > Nikita > Amrita**

$\therefore$  Nishu is the second tallest.



=> Ans - (D)

### Question 90

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

- i. Apparent
- ii. Appointed
- iii. Apostate
- iv. Apparel

A ii, i, iv, iii

B iii,ii,iv,i

C iii,iv,i,ii

D iii,iv,ii,i

**Answer: C**

### Explanation:

As per the order of dictionary :

= Apostate -> Apparel -> Apparent -> Appointed

≡ iii,iv,i,ii

=> Ans - (C)

### Question 91

In a certain code language, "DELETE" is written as "#@^@%@" and "GRAM" is written as "!?\*&". How is "TELEGRAM" written in that code language?

A %@^@^?\*&

B %@^@!?\*&

C %@\*@!?\*&

D %@^@!?\*&

**Answer: D**

### Explanation:

In the given code language,

D = #, L = ^, T = %, E = @, G = !, R = ?, A = \*, M = &.

Therefore, the code for TELEGRAM is coded as %@^@!?\*&.

Hence, option d is the correct answer.

## SSC CHSL Syllabus

### Question 92

Find the missing number in the table as per the series

99	31	91
15	17	18
1485	527	?

A 1678

B 2341

C 1137

D 1638

Answer: D

### Explanation:

In each column, the number at the end is the product of other two.

Eg :-  $99 \times 15 = 1485$  and  $31 \times 17 = 527$

Similarly,  $91 \times 18 = 1638$

=> Ans - (D)

### Question 93

If "#" means "subtraction", "&" means "division", "@" means "addition" and "%" means "multiplication", then  $315\&3\#9@4\%6 = ?$

A 120

B 190

C 221

D 420

Answer: A

### Explanation:

Expression :  $315\&3\#9@4\%6 = ?$

$\equiv 315 \div 3 - 9 + 4 \times 6$

$= \left(\frac{315}{3}\right) + (-9) + (4 \times 6)$

$= 105 - 9 + 24 = 120$

=> Ans - (A)

**Question 94**

Which set of letters when sequentially placed at the gaps in the given letter series shall complete it?  
MN\_NOM\_OPM\_OP\_

- A MNNQ
- B MNOQ
- C MNPQ
- D MNOO

**Answer:** A

**Explanation:**

The pattern followed is that English alphabets starting from 'MN' are written with one new (next) letter appended after every term.

= MN MNO MNOP MNOPQ

=> Ans - (A)

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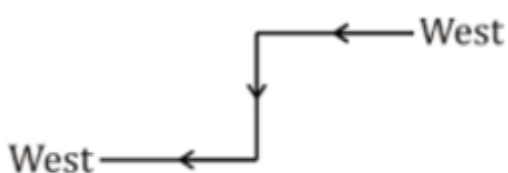
**Question 95**

Navjot starts moving towards the west. After covering some distance, he turns left and then takes a right. Which direction is he facing now?

- A South
- B North
- C West
- D East

**Answer:** C

**Explanation:**



Navjot starts moving towards the west. After covering some distance, he turns left and moved towards south and then takes a right.

Thus, he is facing west at the end.

=> Ans - (C)

### Question 96

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, 'N' can be represented by 68, 99 etc. and 'V' can be represented by 21, 32 etc. Similarly, you have to identify the set for the word 'NORM'.

Matrix 1

	0	1	2	3	4
0	A	T	M	D	O
1	S	A	N	F	I
2	N	V	Y	A	F
3	A	N	V	S	E
4	O	L	M	B	N

Matrix 2

	5	6	7	8	9
5	R	N	M	R	Y
6	O	I	V	A	O
7	N	V	S	M	R
8	R	M	W	O	Y
9	V	V	Y	H	A

- A 44,04,58,86
- B 75,88,22,57
- C 12,33,55,78
- D 20,40,85,96

Answer: A

#### Explanation:

- (A) : 44,04,58,86 = **NORM**
- (B) : 75,88,22,57 = NOYM
- (C) : 12,33,55,78 = NSRM
- (D) : 20,40,85,96 = NORV

=> Ans - (A)

**Question 97**

Pointing to a woman, a girl says,"She is mother of the only child of my father-in-law." How is the woman related to the girl?

- A Mother-in-law
- B Granddaughter
- C Mother
- D Cousin

**Answer:** A

**Explanation:**

Only child of the girl's father-in-law = Girl's husband

Now, the woman is the mother of girl's husband.

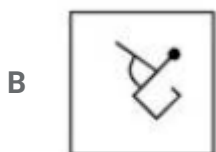
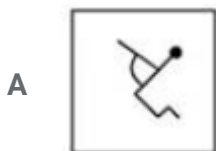
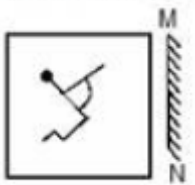
Thus, the woman is girl's mother-in-law.

=> Ans - (A)

## SSC CHSL Study Material

**Question 98**

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

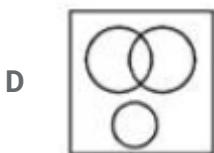
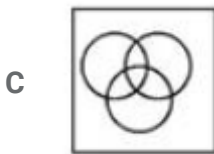
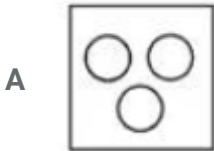




Answer: A

Question 99

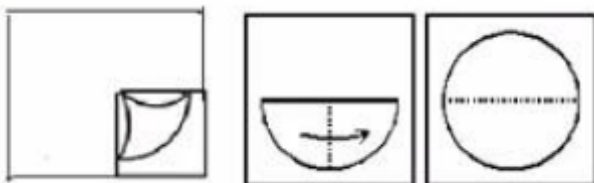
Identify the diagram that best represents the relationship among the given classes. Urban people, Educated, Hard-working

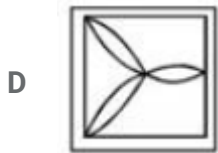
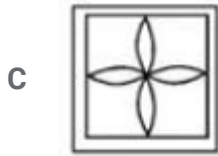
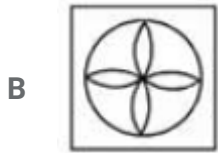


Answer: C

Question 100

A piece of paper is folded and punched as shown in the below question figures. From the given answer figures, indicates how it will appear when opened ?





Answer: B

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