



SSC CHSL 20 Jan 2017 Evening Shift

All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, or stored in any retrieval system of any nature without the permission of cracku.in, application for which shall be made to support@cracku.in

Mathematics

Instructions

For the following questions answer them individually

Question 1

The price of an article is cut by 31%, to restore to its original value, the new price must be increased by

- A 66 percent
- B 44.93 percent
- C 39.76 percent
- D 82.5 percent

Answer: B

Explanation:

Let the original price of the article = Rs. 100

If the price is cut by 31%, => New price = $\frac{100-31}{100} \times 100 = Rs.69$

To restore to its original value the new price must be increased by = $\frac{100-69}{69} \times 100$

$$= \frac{3100}{69} = 44.927 \approx 44.93\%$$

=> Ans - (B)

25 SSC CHSL Mocks for just Rs. 149

Question 2

If $\cot 240^\circ = x$, then the value of x is

- A 1
- B $-1/\sqrt{3}$
- C $1/\sqrt{3}$
- D $\sqrt{3}$

Answer: C

Explanation:

Expression : $\cot 240^\circ = x$

$$= \cot(180 + 60)$$

$$= \cot(60)$$

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

=> Ans - (C)

Question 3

Akka can bake 100 cakes in 20 hours, Akka and Tai together can bake 75 cakes in 10 hours. How many cakes Tai can bake in 20 hours?

- A 25
- B 50

C 30

D 75

Answer: B

Explanation:

Cakes baked by Akka in 1 hour = $\frac{100}{20} = 5$

Cakes baked by Akka and Tai together in 1 hour = $\frac{75}{10} = 7.5$

=> Cakes baked by Tai in 1 hour = $7.5 - 5 = 2.5$

∴ Cakes baked by Tai in 20 hours = $20 \times 2.5 = 50$

=> Ans - (B)

Question 4

Among three numbers, the first is twice the second and thrice the third. If the average of three numbers is 396, then what is the difference between the first and the third number?

A 594

B 448

C 432

D 453

Answer: C

Explanation:

Let the first number be $6x$

=> Second number = $3x$ and third number = $2x$

Average of the three numbers = $\frac{6x+3x+2x}{3} = 396$

=> $11x = 396 \times 3 = 1188$

=> $x = \frac{1188}{11} = 108$

∴ Difference between the first and the third number = $6x - 2x = 4x$

= $4 \times 108 = 432$

=> Ans - (C)

SSC CHSL Free Mock Test

Question 5

The point Q(a,b) is first reflected in y axis to Q1 and Q1 is reflected in x axis to (5,3). The coordinates of point Q are

A (5,6)

B (5,1)

C (5,0)

D (-5,-3)

Answer: D

Explanation:

Q(a,b) after reflection in the y-axis = (-a,b)

Reflection of point $(-a, b)$ in the x-axis is $(-a, -b)$

According to ques,

$$\Rightarrow (-a, -b) = (5, 3)$$

$$\Rightarrow a = -5 \text{ and } b = -3$$

\therefore Coordinates of Point Q = $(-5, -3)$

\Rightarrow Ans - (D)

Question 6

Raghavendra sells a machine for Rs 43 lakhs at a loss. Had he sold it for Rs 52 lakh, his gain would have been 5 times the former loss. Find the cost price of the machine.

A Rs 50.5 lakhs

B Rs 60.6 lakhs

C Rs 44.5 lakhs

D Rs 38.5 lakhs

Answer: C

Explanation:

Let cost price of the machine = Rs. x lakhs

When selling price = Rs. 43 lakhs

$$\Rightarrow \text{Loss} = \text{Rs. } (x - 43) \text{ lakhs}$$

If selling price = Rs. 52 lakhs

$$\Rightarrow \text{Profit} = \text{Rs. } (52 - x) \text{ lakhs}$$

According to ques, Profit = $5 \times$ loss

$$\Rightarrow (52 - x) = 5 \times (x - 43)$$

$$\Rightarrow 52 - x = 5x - 215$$

$$\Rightarrow 5x + x = 215 + 52 = 267$$

$$\Rightarrow x = \frac{267}{6} = \text{Rs. } 44.5 \text{ lakhs}$$

\Rightarrow Ans - (C)

Question 7

If $\sqrt{\sec^2 A - 1} = x$, then the value of x is

A $\cot A$

B $\tan A$

C $\operatorname{cosec} A$

D $\cos A$

Answer: B

Explanation:

$$\text{Expression: } \sqrt{\sec^2 A - 1} = x$$

$$\therefore (\sec^2 A - \tan^2 A = 1)$$

$$= \sqrt{\tan^2 A} = \tan A$$

=> Ans - (B)

SSC CHSL Previous Papers (DOWNLOAD PDF)

Question 8

To cover a distance of 234 km in 1.6 hours what should be the average speed of the car in meters/second?

- A 40.625 m/s
- B 146.25 m/s
- C 73.125 m/s
- D 81.25 m/s

Answer: A

Explanation:

The car covers 234 km in 1.6 hours

$$\text{Speed of car (in km/h)} = \frac{234}{1.6} = 146.25 \text{ km/hr}$$

$$\Rightarrow \text{Speed of car (in m/s)} = 146.25 \times \frac{5}{18}$$

$$= 8.125 \times 5 = 40.625 \text{ m/s}$$

=> Ans - (A)

Question 9

What is the value of $\cos^2 A / (1 + \sin A)$?

- A $1 + \sin A$
- B $1 - \sin A$
- C $1 - \sec A$
- D $1 + \sec A$

Answer: B

Explanation:

Expression : $\cos^2 A / (1 + \sin A)$

Multiplying both numerator and denominator by $(1 - \sin A)$

$$= \frac{\cos^2 A (1 - \sin A)}{1 + \sin A \times (1 - \sin A)}$$

$$= \frac{\cos^2 A (1 - \sin A)}{1 - \sin^2 A} = \frac{\cos^2 A (1 - \sin A)}{\cos^2 A}$$

$$= 1 - \sin A$$

=> Ans - (B)

Question 10

If $2x - 2(x - 2) < 5 - x > 2x + 2$; then the value of x is

- A 0
- B 2
- C 3

D 4

Answer: A

Explanation:

Expression 1 : $2x - 2(x - 2) < 5 - x$

$$\Rightarrow 2x - 2x + 4 < 5 - x$$

$$\Rightarrow x < 5 - 4$$

$$\Rightarrow x < 1 \text{ -----(i)}$$

Expression 2 : $5 - x > 2x + 2$

$$\Rightarrow 2x + x < 5 - 2$$

$$\Rightarrow 3x < 3$$

$$\Rightarrow x < 1 \text{ -----(ii)}$$

Combining inequalities (i) and (ii), we get : $x < 1$

The only value that x can take among the options = 0

\Rightarrow Ans - (A)

SSC CGL Previous Papers (DOWNLOAD PDF)

Question 11

Marked price of an item is Rs 900. On purchase of 2 items discount is 16%, on purchase of 5 items discount is 44%. Raksha buys 7 items, what is the effective discount?

- A 10 percent
- B 16 percent
- C 36 percent
- D 9.6 percent

Answer: C

Explanation:

Marked price of item = Rs. 900

$$\Rightarrow \text{Marked price of 2 items} = 2 \times 900 = \text{Rs. 1800}$$

$$\text{Amount saved on buying 2 items} = \frac{16}{100} \times 1800 = \text{Rs. 288}$$

$$\text{Marked price of 5 items} = 5 \times 900 = \text{Rs. 4500}$$

$$\text{Amount saved on buying 5 items} = \frac{44}{100} \times 4500 = \text{Rs. 1980}$$

$$\text{Thus, on buying 7 items, total amount saved} = 288 + 1980 = \text{Rs. 2268}$$

$$\text{Total marked price of 7 items} = 7 \times 900 = \text{Rs. 6300}$$

$$\therefore \text{Effective discount} = \frac{2268}{6300} \times 100$$

$$= \frac{2268}{63} = 36\%$$

\Rightarrow Ans - (C)

Question 12

If $(6x - 5) = (4x + 7)$, then the numerical value of $(x + 1)^3$ is

- A 216

- B 125
- C 64
- D 343

Answer: D

Explanation:

Expression : $(6x - 5) = (4x + 7)$

$$\Rightarrow 6x - 4x = 7 + 5$$

$$\Rightarrow 2x = 12$$

$$\Rightarrow x = \frac{12}{2} = 6$$

$$\therefore (x + 1)^3 = (6 + 1)^3$$

$$= (7)^3 = 343$$

\Rightarrow Ans - (D)

Question 13

The points A(3,2), B(1,4) and C(2,x) are collinear. What is the value of x?

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

Answer: A

Explanation:

Coordinates of points A(3,2), B(1,4) and C(2,x)

Since the points are collinear, thus the area of triangle formed by these points = 0

Area of triangle formed by points (x_1, y_1) , (x_2, y_2) and (x_3, y_3) is $= \frac{1}{2} [x_1(y_2 - y_3) + x_2(y_3 - y_1) + x_3(y_1 - y_2)]$

\Rightarrow Area of $\triangle ABC = 0$

$$\Rightarrow \frac{1}{2} [3(4 - x) + 1(x - 2) + 2(2 - 4)] = 0$$

$$\Rightarrow 12 - 3x + x - 2 - 4 = 0$$

$$\Rightarrow -2x = -6$$

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

\Rightarrow Ans - (A)

SSC CGL Free Mock Test (Latest Pattern)

Question 14

In an army selection process, the ratio of selected to unselected was 5:1. If 100 less had applied and 20 less selected, the ratio of selected to unselected would have been 6:1. How many candidates had applied for the process?

- A 5520
- B 2760
- C 1380

D 8280

Answer: B

Explanation:

Let $6x$ candidates applied for the process.

Candidates selected = $5x$ and candidates not selected = x

If candidates applied = $6x - 100$

Candidates selected = $5x - 20$

\Rightarrow Candidates not selected = $(6x - 100) - (5x - 20) = x - 80$

According to ques,

$$\Rightarrow \frac{5x-20}{x-80} = \frac{6}{1}$$

$$\Rightarrow 5x - 20 = 6x - 480$$

$$\Rightarrow x = 480 - 20 = 460$$

\therefore Number of candidates who applied for the process = $6 \times 460 = 2760$

\Rightarrow Ans - (B)

Question 15

If $xy = 48$ and $x^2 + y^2 = 100$, then $(x + y)$ is

A 12

B 16

C 18

D 14

Answer: D

Explanation:

Given : $(x^2 + y^2) = 100$ and $xy = 48$

Using $(x + y)^2 = x^2 + y^2 + 2xy$

$$\Rightarrow (x + y)^2 = 100 + (2 \times 48)$$

$$\Rightarrow (x + y) = \sqrt{100 + 96} = \sqrt{196} = 14$$

\Rightarrow Ans - (D)

Question 16

An angle is $\frac{1}{3}$ its supplementary angle. Find the measure of the angle?

A 45°

B 90°

C 135°

D 22.5°

Answer: A

Explanation:

Let the supplementary angle = θ

$$\text{Required angle} = \left(\frac{1}{3}\theta\right)$$

Sum of an angle and its supplementary angle = 180°

$$\Rightarrow \theta + \left(\frac{1}{3}\theta\right) = 180^\circ$$

$$\Rightarrow \frac{4}{3}\theta = 180^\circ$$

$$\Rightarrow \theta = \frac{180 \times 3}{4} = 135^\circ$$

$$\therefore \text{Measure of the angle} = \frac{1}{3} \times 135 = 45^\circ$$

\Rightarrow Ans - (A)

SSC CHSL Important Questions and Answers (Download PDF)

Question 17

If $(5/9 \text{ of } x) - (2/5 \text{ of } 9/4)$ equals $-4/5$ then find x .

A 0.18

B 0.12

C 2

D 0.54

Answer: A

Explanation:

According to question, $\Rightarrow \left(\frac{5}{9} \times x\right) - \left(\frac{2}{5} \times \frac{9}{4}\right) = \frac{-4}{5}$

$$\Rightarrow \frac{5x}{9} - \frac{9}{10} = \frac{-4}{5}$$

$$\Rightarrow \frac{5x}{9} = \frac{9}{10} - \frac{8}{10} = \frac{1}{10}$$

$$\Rightarrow x = \frac{9}{50} = 0.18$$

\Rightarrow Ans - (A)

Question 18

In an isosceles trapezium

A Diagonals are congruent

B Opposite sides are parallel

C Diagonals are bisectors of each other

D Diagonals bisect opposite angles

Answer: A

Explanation:

In an isosceles trapezium, the non parallel sides are equal in length and thus the diagonals are congruent.

\Rightarrow Ans - (A)

Question 19

There is 40% increase in an amount in 10 years at simple interest. What will be the compound interest of Rs. 30000 after 3 years at the same rate?

A Rs 3745.92

B Rs 7491.84

C Rs 9364.8

D Rs 5618.88

Answer: A

Explanation:

Let the principal = Rs. $100x$

=> Amount after simple interest = $\frac{140}{100} \times 100 = \text{Rs. } 140x$

=> Simple interest = $140x - 100x = \text{Rs. } 40x$

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

=> $40x = \frac{100x \times 10 \times R}{100}$

=> $R = \frac{40}{10} = 4\%$

Compound interest of Rs. 30,000 for 3 years = $P[(1 + \frac{R}{100})^T - 1]$

= $30,000[(1 + \frac{4}{100})^3 - 1]$

= $30,000[(\frac{26}{25})^3 - 1]$

= $30,000 \times \frac{17576 - 15625}{(25)^3} = 48 \times \frac{1951}{25}$

= $\frac{93648}{25} = \text{Rs } 3745.92$

=> Ans - (A)

SSC CHSL Study Material

Question 20

A number is greater than thrice its reciprocal by $\frac{26}{3}$. What is the number?

A 10

B 11

C 9

D 8

Answer: C

Explanation:

Let the number be x

According to ques, => $x - \frac{3}{x} = \frac{26}{3}$

=> $\frac{x^2 - 3}{x} = \frac{26}{3}$

=> $3x^2 - 9 = 26x$

=> $3x^2 - 26x - 9 = 0$

=> $3x^2 + 1x - 27x - 9 = 0$

=> $x(3x + 1) - 9(3x + 1) = 0$

=> $(3x + 1)(x - 9) = 0$

=> $x = 9, \frac{-1}{3}$

=> Ans - (C)

Question 21

The cross section of a canal is in the shape of an isosceles trapezium which is 4 m wide at the bottom and 5 m wide at the top. If the depth of the canal is 2 m and it is 120 m long, what is the maximum capacity of this canal?

- A 2160 cubic mts
- B 3240 cubic mts
- C 4320 cubic mts
- D 1080 cubic mts

Answer: D

Explanation:

The canal is 4 m wide at the bottom and 5 m at the top, thus the canal is in the shape of a trapezium whose volume will be equal to the product of area of trapezium and the width.

Length of canal = 120 m

Volume of canal = $\left(\frac{1}{2} \times (\text{sum of parallel sides}) \times \text{height}\right) \times \text{length}$

$$\Rightarrow \text{Volume} = \left(\frac{1}{2} \times (5 + 4) \times 2\right) \times 120$$

$$= 9 \times 120 = 1080 \text{ m}^3$$

\Rightarrow Ans - (D)

Question 22

Read the data and answer the given questions ?

Division/STD	Boys	Girls
Division A/STD 5	20	10
Division B/STD 5	15	15
Division C/STD 5	25	10
Division A/STD 6	10	15
Division B/STD 6	35	20
Division C/STD 6	20	30

What is the ratio of boys to girls?

- A 31 : 22
- B 20 : 29
- C 5 : 4
- D 22 : 31

Answer: C

Explanation:

Total number of boys = $20 + 15 + 25 + 10 + 35 + 20 = 125$

Total number of girls = $10 + 15 + 10 + 15 + 20 + 30 = 100$

$$\Rightarrow \text{Required ratio} = \frac{125}{100}$$

$$= 5 : 4$$

\Rightarrow Ans - (C)

Question 23

Read the data answer the given questions

Marks	No of Students
40 and above	18
30 and above	41
20 and above	69
10 and above	88
0 and above	100

How many students have scored marks 20 and more but less than 40?

- A 41
- B 69
- C 51
- D 110

Answer: C

Explanation:

Number of students who scored :

40 and above = 18

30 and above = 41 - 18 = 23

20 and above = 69 - 41 = 28

10 and above = 88 - 69 = 19

0 and above = 100 - 88 = 12

=> Students who have scored marks 20 or more but less than 40 = 28 + 23 = 51

=> Ans - (C)

Question 24

Read the data and answer the given questions

Years	GDP growth rate in %
2011	-6
2012	7
2013	-7
2014	4
2015	3

If the GDP of the country was \$5 trillion at the end of 2013, what was it at the beginning of 2015?

- A \$4.65 trillion
- B \$5.15 trillion
- C \$5.2 trillion
- D \$5.35 trillion

Answer: C

Explanation:

GDP at the beginning of 2015 is equal to the GDP at the end of 2014

=> GDP growth rate in 2014 = 4%

GDP at the end of 2013 = GDP at the beginning of 2014 = \$5 trillion

∴ GDP at the beginning of 2015 = $\frac{100+4}{100} \times 5$ trillion

= $\frac{520}{100}$ = \$5.2 trillion

⇒ Ans - (C)

Question 25

Read the data answer the questions?

Subjects	Marks scored
English	30
Hindi	50
Maths	30
Science	35
Arts	30

Five points are to be deducted from this student's average of marks scored because of poor attendance. What will be this student's net average marks scored?

A 20

B 25

C 30

D 35

Answer: C

Explanation:

Total marks scored by the student = 30 + 50 + 30 + 35 + 30 = 175

⇒ Average marks = $\frac{175}{5} = 35$

But due to poor attendance, 5 marks are deducted

∴ Net average = 35 - 5 = 30

⇒ Ans - (C)

Daily Free SSC Practice Set

Reasoning

Instructions

For the following questions answer them individually

Question 26

Select the related word/letters/number from the given alternatives. India : Tiger : : Nepal : ?

A Peacock

B Dolphin

C Tiger

D Cow

Answer: D

Explanation:

Tiger is the national animal of India, similarly Cow is the national animal of Nepal.

⇒ Ans - (D)

Free SSC Study Material (18,000 Solved Questions)

Question 27

Select the related word/letters/number from the given alternatives. DANGEROUS : SUOREGNAD :: ? : RETHGUAD

- A DAUGGARD
- B DAUGHTER
- C DORMANT
- D DAUGHTRE

Answer: B

Explanation:

Expression = DANGEROUS : SUOREGNAD :: ? : RETHGUAD

The pattern followed is that the word is written in *reverse* order, i.e. first letter at last position, second at second last and so on.

Similarly, reverse of RETHGUAD : **DAUGHTER**

=> Ans - (B)

Question 28

Select the related word/letters/number from the given alternatives. APPEAR : FUUFJW :: GRIND : ?

- A LWNSI
- B ISNWL
- C LNWSI
- D LINWS

Answer: A

Explanation:

Expression = APPEAR : FUUFJW :: GRIND : ?

The pattern followed is :

A	P	P	E	A	R
(+5)	(+5)	(+5)	(+5)	(+5)	(+5)
F	U	U	J	F	W

Similarly, for GRIND :

G	R	I	N	D
(+5)	(+5)	(+5)	(+5)	(+5)
L	W	N	S	I

=> Ans - (A)

Question 29

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

9 : 738 :: 10 : ?

- A 1200
- B 1001
- C 1100
- D 1010

Answer: D

Explanation:

Expression = $9 : 738 :: 10 : ?$

The pattern followed is = $x : x(x^2 + 1)$

Eg :- $9 : 9(9^2 + 1) = 9 : 9 \times 82 = 9 : 738$

Similarly, $10 \times (10^2 + 1) = 10 \times 101 = 1010$

=> Ans - (D)

1500+ Very Important Free SSC Solved Questions

Question 30

select the odd word/letters/number/number pair from the given alternatives.

A Elephant

B Giraffe

C Cow

D Hen

Answer: D

Explanation:

Except hen other three are from animal category, hence it is the odd one out.

=> Ans - (D)

Question 31

Select the odd word/letters/number/number pair from the given alternatives.

A AG

B CE

C BI

D GF

Answer: D

Explanation:

Except GF, other three contain a vowel, hence it is the odd one out.

=> Ans - (D)

Question 32

select the odd word/letters/number/number pair from the given alternatives.

A 23498

B 9494

C 6946

D 15578

Answer: C

Explanation:

The sum of digits of number is 26, but $6 + 9 + 4 + 6 = 25$, hence 6946 is the odd one out.

=> Ans - (C)

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

Question 33

select the odd word/letters/number/number pair from the given alternatives.

A 1541

B 4096

C 1331

D 4913

Answer: A

Explanation:

$$4096 = (16)^3, 1331 = (11)^3, 4913 = (17)^3$$

But 1541 is not a perfect cube, hence it is the odd one out.

=> Ans - (A)

Question 34

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. Jaipur, Rajasthan, India, ?

A Europe

B Antarctica

C Asia

D Australia

Answer: C

Explanation:

Places in increasing order of area is given.

= Jaipur -> Rajasthan -> India -> Asia

=> Ans - (C)

Question 35

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. YXW, TSR, NML, ?

A EFG

B GFE

C FEG

D HGF

Answer: B

Explanation:

Expression : YXW, TSR, NML, ?

The pattern followed is :

V X W T S R N M L G F E
 -3 -4 -5

Thus, missing term = GFE

=> Ans - (B)

Latest Job Updates on Telegram - Join here

Question 36

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. B, D, H, P, ?

A E

B D

C C

D F

Answer: D

Explanation:

Numbers of the form 2^n are added, where n is natural number

B D H P F
 +2 +4 +8 +16

Thus, missing alphabet = F

=> Ans - (D)

Question 37

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. 8, 27, 125, 343, ?

A 1000

B 729

C 1331

D 1728

Answer: C

Explanation:

Series of cubes of successive prime numbers.

$$2^3 = 8$$

$$3^3 = 27$$

$$5^3 = 125$$

$$7^3 = 343$$

$$11^3 = 1331$$

=> Ans - (C)

Question 38

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.

Statements:

(I) Sohan is a good sportsman.

(II) Sportsmen are healthy.

Conclusion:

(I) All healthy people are sportsmen.

(II) Sohan is healthy.

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

Answer: C

Explanation:

The given statements indicate that Sohan is a good sportsman and sportsmen are healthy. Clearly, it does not mean that all healthy people are sportsmen, nor does it mean that Sohan is healthy.

Thus, neither I nor II follow.

=> Ans - (C)

Join SSC Daily Quiz Telegram Group

Question 39

Priya, Juhi, Amit, Nitin and Ram are five friends studying in the same class. Juhi scores higher marks than Ram but lesser than Priya. Nitin scores the highest and Ram scores the lowest marks. If Amit secures second rank out of the five, who stands at the third position?

- A Ram
- B Juhi
- C Priya
- D Nitin

Answer: C

Explanation:

Juhi scores higher marks than Ram but lesser than Priya, => Priya > Juhi > Ram

Nitin scores the highest and Ram scores the lowest marks and Amit secures second rank out of the five.

Combining above statements, we get : **Nitin > Amit > Priya > Juhi > Ram**

∴ Priya stands at the third position.

=> Ans - (C)

Question 40

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

- i. Garbage
- ii. Garrulous
- iii. Gabber
- iv. Garble

- A i, iii, iv, ii
- B iii, iv, i, ii
- C iii, i, iv, ii
- D i, iv, iii, ii

Answer: C

Explanation:

As per the order of dictionary :

= Gabber -> Garbage -> Garble -> Garrulous

≡ iii, i, iv, ii

=> Ans - (C)

Question 41

In a certain code language, "READ" is written as "18514". How is "RATE" written in that code language?

- A 181520
- B 181025
- C 181205
- D 181914

Answer: C

Explanation:

According to the corresponding value of position, "READ" is written as "18514".

R	A	T	E
↓	↓	↓	↓
18	1	20	5

Similarly, RATE : 181205

=> Ans - (C)

25 SSC CHSL Mocks for just Rs. 149

Question 42

Find the Missing number in the table?

17	15	13
8	?	11
353	274	290

- A 4
- B 8
- C 9
- D 7

Answer: D

Explanation:

The pattern followed is that in each column, the sum of squares of first two numbers is equal to the last number.

Eg :- $(17)^2 + (8)^2 = 289 + 64 = 353$

and $(13)^2 + (11)^2 = 169 + 121 = 290$

Similarly, $(15)^2 + (x)^2 = 274$

$\Rightarrow x^2 = 274 - 225 = 49$

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

\Rightarrow Ans - (D)

Question 43

If "A" means "minus", "B" means "divided by", "C" means "plus" and "D" means "multiplied by", then
54 B 6 A 4 C 2 D 5 = ?

A 15

B 21

C 16

D 18

Answer: A

Explanation:

Expression : $54 \text{ B } 6 \text{ A } 4 \text{ C } 2 \text{ D } 5 = ?$

$\equiv 54 \div 6 - 4 + 2 \times 5$

$= \left(\frac{54}{6}\right) + (-4) + (2 \times 5)$

$= 9 - 4 + 10 = 15$

\Rightarrow Ans - (A)

Question 44

Which set of letters when sequentially placed at the gaps in the given letter series shall complete it?
a_b_cc_a_b_c

A ababc

B aacb

C abcab

D abbcc

Answer: A

Explanation:

The pattern followed is that in groups of 6, the term 'aabbcc' is repeated.

$= \text{aabbcc aabbcc}$

\Rightarrow Ans - (A)

SSC CHSL Free Mock Test

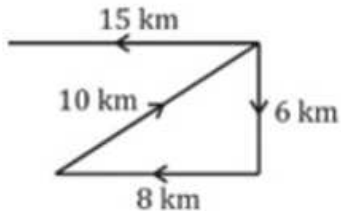
Question 45

Preetam cycles 6 km towards the south direction. He turns right to move 8 km, and again turns towards the northeast to move 10 km. From there, he moves 15 km on the left. How far is he from his original position?

- A 15 km
- B 10 km
- C 55 km
- D 65 km

Answer: A

Explanation:



Preetam started cycling towards south direction for 6 km, then turned right and cycled west for 8 km, then he turned north-east for 10 km and finally travelled west for 15 km.

Thus, he is 15 km from his original position.

=> Ans - (A)

Question 46

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, 'O' can be represented by 01, 10, etc., and 'R' can be represented by 34, 22, etc. Similarly, you have to identify the set for the word DREAM.

Matrix 1

	0	1	2	3	4
0	A	D	Q	M	R
1	D	T	W	R	W
2	S	H	R	B	E
3	F	R	E	V	R
4	R	E	G	C	F

Matrix 2

	5	6	7	8	9
5	H	E	Z	A	T
6	E	G	A	D	Y
7	K	A	X	G	M
8	A	B	C	M	W
9	K	V	M	H	Q

- A 98, 40, 85, 14, 20
- B 01, 04, 42, 76, 98
- C 68, 34, 24, 00, 88
- D 11, 04, 24, 41, 88

Answer: C

Explanation:

(A) : 98, 40, 85, 14, 20 = HRAWS

(B) : 01, 04, 42, 76, 98 = DRGAH

(C) : 68, 34, 24, 00, 88 = DREAM

(D) : 11, 04, 24, 41, 88 = TREEM

=> Ans - (C)

Question 47

Introducing a girl, Raju says, "She is the daughter of my grandfather's son's daughter". How is the girl related to Raju?

- A Cousin
- B Wife
- C Sister
- D Niece

Answer: D

Explanation:

Raju's grandfather's son's daughter = Raju's sister

Now, that girl is daughter of Raju's sister, => Raju is her uncle.

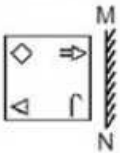
=> That girl is the niece of Raju.

=> Ans - (D)

SSC CHSL Previous Papers (DOWNLOAD PDF)

Question 48

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



- A
- B
- C
- D

Answer: B

Explanation:

A vertical mirror is placed, so the object on the left will appear right in reverse position and vice-versa.

So the rhombus at the top left will be reversed and will now appear at top right, thus the last two options will be eliminated.

Also, in the question figure, the triangle (pointing left) at bottom left will change its position and direction, and will now be pointing right at bottom right position, hence second option is the right image.

=> Ans - (B)

Question 49

Identify the diagram that best represents the relationship among the given classes. Earth, Planets, Moon



Answer: A

Explanation:

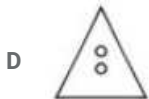
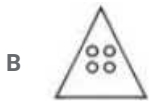
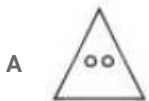
Earth is one of the planets, but moon being a natural satellite is different, hence the venn diagram that best describes above relation is :



=> Ans - (A)

Question 50

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



Answer: B

Explanation:

When the paper is unfolded first to the top, a circle will appear at the top part.

When the paper is unfolded again to the left, two circles will appear similarly one each on the top left and bottom left part of the paper.

∴ When the paper is unfolded it will appear as shown below



Hence, the correct answer is Option B

SSC CGL Previous Papers (DOWNLOAD PDF)

English

Instructions

For the following questions answer them individually

Question 51

Select the synonym of
to theorize

- A to measure
- B to prove
- C to speculate
- D to calculate

Answer: C

SSC CGL Free Mock Test (Latest Pattern)

Question 52

Rearrange the parts of the sentence in correct order.

To write in plain vigorous language
Pone has to think fearlessly, and if
Qone thinks fearlessly
Rone cannot be politically orthodox

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

Answer: B

Question 53

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

No parents canto see their ward waste their potential.

- A visualize
- B predict
- C envisage
- D afford

Answer: D

Question 54

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.

Abhay said, "I will go to Surat tomorrow".

- A Abhay said that he would go to Surat the next day.
- B Abhay said he would go to Surat tomorrow.
- C Abhay said he will be going to Surat the next day.
- D Abhay said that he would go to Surat tomorrow.

Answer: A

SSC CHSL Important Questions and Answers (Download PDF)

Question 55

Improve the bracketed part of the sentence.

The (needs) of the hour was to reform the entire banking system.

- A need
- B needing
- C needings
- D no improvement

Answer: A

Question 56

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.

They are going to watch a drama tomorrow.

- A A drama is going to be watched by them tomorrow.
- B A drama will be watched by them tomorrow.
- C A drama was going to be watched by them tomorrow.
- D Tomorrow the drama is going to be watched by them.

Answer: A

Question 57

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

The minister appealed to the public not toto violence.

- A criticize
- B provoke
- C resort
- D influence

Answer: C

SSC CHSL Study Material

Question 58

Select the antonym of
ambushed

- A lurk
- B waylay
- C camouflage
- D exposed

Answer: D

Question 59

Rearrange the parts of the sentence in correct order.

Elections are likely to be held
Pin 2017 once law and order
Qtime frame has been set
Ris restored though no

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

Answer: A

Question 60

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase.
wide in range or effect

- A sweeping
- B exaggerate
- C exclusive
- D superficial

Answer: A

SSC CHSL Free App

Question 61

Choose the word with the correct spelling.

- A toxicity

- B traducer
- C rubycund
- D impeeding

Answer: B

Question 62

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase. to treat with cruelty or violence

- A wrong
- B abuse
- C pervert
- D fault

Answer: B

Question 63

Improve the bracketed part of the sentence.

One minute they're all sweet (but) caring and the next minute they stab you in the back.

- A if
- B and
- C only
- D nor

Answer: B

Daily Free SSC Practice Set

Question 64

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'.

If I had remembered(A)/this it will have(B)/prevented some mistakes.(C)/No error(D)

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

Answer: B

Question 65

In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase. Too many cooks spoil the broth

- A it is always better to do a job independently
- B asking many people for advice will cause confusion, and the decision will never be made
- C if too many people are involved in a task or activity, it will not be done well
- D food is always cooked better if one person cooks it

Answer: C

Question 66

Select the word with the correct spelling.

- A litigate
- B diatrybe
- C cloyster
- D griemiest

Answer: A

Free SSC Study Material (18,000 Solved Questions)

Question 67

Select the antonym of malignant

- A mortal
- B internecine
- C benign
- D lethal

Answer: C

Question 68

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'.

It was being hard to believe(A)/that my brother could be(B)/involved with anything so sinister.(C)/No error(D)

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

Answer: A

Question 69

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

- A if you forcibly tie up a person in a relationship that person will run away
- B no matter what, one should never lose temper
- C every task is easy for a talented person
- D something acquired without effort may be lost without regret

Answer: D

1500+ Very Important Free SSC Solved Questions

Question 70

Choose the synonym of
to thrash

- A to pin
- B to grasp
- C to pinch
- D to beat up

Answer: D

Instructions

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

The battle between attackers and the attacked is becoming still more(1)..... . Faced with potentially new cyber(2)....., the danger to India's economic and national security is going(3).....geometrical progression. To be forearmed, with(4).....offensive cyber operations and(5).....cyber security, is essential.

Question 71

(1)

- A stronger
- B asymmetric
- C inclined
- D strange

Answer: B

Question 72

(2)

- A onslaughts
- B attack
- C world
- D intrusions

Answer: A

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

Question 73

(3)

- A down as
- B down for
- C up on
- D up in

Answer: D

Question 74

(4)

- A the two
- B both
- C either
- D neither

Answer: B

Question 75

(5)

- A more stronger
- B strongest
- C strengthened
- D strengthening

Answer: C

Latest Job Updates on Telegram - Join here

General Awareness

Instructions

For the following questions answer them individually

Question 76

Which world heritage site comprises of the Alai Darwaza Gate?

- A Humayun's Tomb
- B Mahabodhi Temple Complex
- C Qutub Minar
- D Red Fort Complex

Answer: C

Join SSC Daily Quiz Telegram Group

Question 77

Highest Civilian Honour received by Azim Premji is

- A Padma Shri
- B Padma Bhushan
- C Padma Vibhushan
- D Bharat Ratna

Answer: C

Question 78

Which drug is used as an AntiDiabetic drug?

- A Metformin
- B Zolpidem
- C Promethazine
- D Hydralazine

Answer: A

Question 79

Photosynthesis takes place inside plant cells in

- A Ribosomes
- B Chloroplasts
- C Nucleus
- D Mitochondria

Answer: B

25 SSC CHSL Mocks for just Rs. 149

Question 80

.....is the cell organelle, in which the biochemical processes of respiration and energy production occur.

- A Mitochondria
- B Chloroplast
- C Ribosomes
- D Nucleus

Answer: A

Question 81

LPG is a mixture of

- A methane and butane
- B butane and propane
- C methane and propane
- D ethane and propane

Answer: B

Question 82

What happens when one S and one P orbital is hybridized?

- A We get three orbitals in a plane
- B We get two orbitals at 180 degrees
- C We get two mutually perpendicular orbitals
- D We get four orbitals directed tetrahedrally

Answer: B

SSC CHSL Free Mock Test

Question 83

A formal language used to express information or knowledge, often for use in computer system design is?

- A Command Language
- B Machine Language
- C Markup Language
- D Modeling language

Answer: D

Question 84

Konkani is the official language of

- A Chandigarh
- B Dadra and Nagar Haveli
- C Daman and Diu, Goa
- D Delhi

Answer: C

Question 85

If demand curve for racing cycles is $D = 80200 - 13P$ and supply curve is $S = 6200 + 12P$, What is the equilibrium Quantity?

- A 2960 units
- B 31220 units
- C 8750 units
- D 41720 units

Answer: D

SSC CHSL Previous Papers (DOWNLOAD PDF)

Question 86

Match the characteristics with their market structure:

- (a) $MC = Price$
- (b) Firm will tend to set output so that it earns maximum profits.

- A (a) Pure Competition, (b) Pure Monopoly
- B (a) Pure Monopoly, (b) Monopolistic Competition
- C (a) Oligopoly, (b) Monopolistic Competition
- D (a) Pure Competition, (b) Oligopoly

Answer: A

Question 87

To which habitat is the turtle Petri adapted?

- A Desert
- B Forest
- C Sea
- D Marshes

Answer: C

Question 88

Bandipur National Park is in which state?

- A Madhya Pradesh
- B Rajasthan
- C Karnataka
- D Chhattisgarh

Answer: C

SSC CGL Previous Papers (DOWNLOAD PDF)

Question 89

Which is the first newspaper of India?

- A Bombay Gazette
- B Bengal Gazette
- C Bombay Times
- D Hindustan Times

Answer: B

Question 90

Which state in India has the longest coastline?

- A Kerala
- B Tamil Nadu
- C Maharashtra
- D Gujarat

Answer: D

Question 91

London is the Capital City of

- A Philippines
- B Maldives
- C Spain
- D United Kingdom

Answer: D

SSC CGL Free Mock Test (Latest Pattern)

Question 92

Adolf Hitler was from

- A France
- B Germany
- C United Kingdom
- D Spain

Answer: B

Question 93

Babur (1526-1530 AD) was the ruler of which dynasty?

- A Mughal
- B Nanda

- C Maurya
- D Haryanka

Answer: A

Question 94

What did J. B. Dunlop invent?

- A Pneumatic rubber tire
- B Car Music System
- C Steering Wheel
- D Diesel Engine

Answer: A

SSC CHSL Important Questions and Answers (Download PDF)

Question 95

When net torque is zero,will be constant.

- A force
- B angular momentum
- C linear momentum
- D acceleration

Answer: B

Question 96

Newton's first law is also known as

- A Law of friction
- B Law of moments
- C Law of Inertia
- D Law of motion

Answer: C

Question 97

The tenure of the members of Lok Sabha is for how many years?

- A 11
- B 9
- C 7
- D 5

Answer: D

SSC CHSL Study Material

Question 98

Article 41 of the Indian Constitution "Right to work, to education and to public assistance in certain cases" deals with?

- A the Union Government
- B the directive principles of state policy
- C the State Government
- D the fundamental rights of the Indian Citizen

Answer: B

Question 99

Anju Bobby George is associated with which game?

- A Shooting
- B Athletics
- C Chess
- D Cricket

Answer: B

Question 100

Who wrote the book "The test of my life"?

- A Yuvraj Singh
- B Sachin Tendulkar
- C Brian Lara
- D Adam Gilchrist

Answer: A

SSC CHSL Free App

25 SSC CHSL Mocks for just Rs. 149

SSC CHSL Free Mock Test

SSC CHSL Previous Papers (DOWNLOAD PDF)

SSC CGL Previous Papers (DOWNLOAD PDF)

[**SSC CGL Free Mock Test \(Latest Pattern\)**](#)

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

[**SSC CHSL Study Material**](#)

[**SSC CHSL Free App**](#)

[**Daily Free SSC Practice Set**](#)

[**Free SSC Study Material \(18,000 Solved Questions\)**](#)

[**1500+ Very Important Free SSC Solved Questions**](#)

[**SSC Exam Update Videos & Free Study Material \(YouTube Channel\)**](#)

[**Latest Job Updates on Telegram - Join here**](#)

[**Join SSC Daily Quiz Telegram Group**](#)