# cracku 500

# SSC CHSI 19 Jan 2017 Morning Shift

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Α	GHJ				
В	HGH				
С	ННХ				
D	IGV			R	
	Answer: C			$\bigcirc$	
<b>Ex</b>	planation:		0.2	)	
	EXPLOSION - QRU . RUE . GIU . ?				

The following pattern is followed and U and F are corresponding opposite letters.

 $\begin{array}{c} +1 \\ Q R U R Q F \\ -1 \\ ABCDEFGHIJKLMNOPQRSTUVWXYZ \\ \downarrow \downarrow \dots \\ ZYXWVUTSRQPONMLKJIHGFEDCBA \\ Similarly, for GIC : HHX \end{array}$ 

=> Ans - (C)

### **Question 4**

Select the related word/letters/number from the given alternatives. 1331 : 11:: 13824 : ?

**A** 20

**B** 23

- **C** 18
- **D** 24

Answer: D

Explanation: Expression = 1331 : 11:: 13824 : ?

The pattern followed is =  $x^3: x$ 

 $Eg : -11^3 : 11 = 1331 : 11$ 

Similarly,  $\sqrt[3]{13824} = 24$ 

=> Ans - (D)



### **Question 5**

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

- A Anger
- **B** Enquiry
- **C** Investigation

- D Probe
  - Answer: A

### **Explanation:**

Except Anger other three are synonyms of each other, hence it is the odd one out.

### => Ans - (A)

### **Question 6**

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

A ZVR	~
3 MIE	1
TXP	
RNJ	
Answer: C	
A) : Z (-4 letters) = V (-4 letters) = R	
B) : M (-4 letters) = I (-4 letters) = E	
C) : T ( <b>+4</b> letters) = X ( <b>-8</b> letters) = P	
D) : R (-4 letters) = N (-4 letters) = J	
-> Ans - (C)	
Question 7	
Select the odd word/letters/number/number pair from the given alternatives.	
1/2	
3 1/3	
2 1/4	
0 1/5	
Answer: B	
Explanation: Result of 1/3 will be a non-terminating decimal, hence it is the odd one out.	
-> Ans - (B)	

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### **Question 8**

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

Α	897	
В	969	
С	888	
D	432	
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### Explanation:

Except for 432, the sum of digits of other number is 24, hence 432 is the odd one out.

=> Ans - (D)

### **Question 9**

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. Qutbuddin Aibak, Iltutmish, ?, Ghiyasuddin Balban

- A Razia Sultana
- B Alauddin Khilji
- C Firoz Shah Tughlaq
- D Bahlol Lodi
  - Answer: A

### **Explanation:**

Sequence according to timeline of the slave dynasty is given.

= Qutbuddin Aibak, Iltutmish, Razia Sultana , Ghiyasuddin Balban

=> Ans - (A)

### **Question 10**

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. AB,EFG,KLMN,?

- A TSUVW
- B STVUW
- C STUVW
- D RSTUV

Answer: C

### Explanation:

### Expression : AB,EFG,KLMN,?

The pattern between the first letter of next term and last letter of previous term is :



Thus, missing term = STUVW

=> Ans - (C)

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### Question 11

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. AZ, BY, CX, ?

- A KN
- B EV

- c DW
- D ED

Answer: C

### **Explanation:**

A + 1 = B; B + 1 = C; C + 1 = D

Z - 1 = Y; Y - 1 = X; X - 1 = W

So, DW i.e.option C must be the answer.

### **Question 12**

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. 8,21,60,177,?

- A 425
- **B** 528
- **C** 525
- **D** 575

### Answer: B

### **Explanation:**

The pattern followed is :

 $8 \times 3 - 3$  = 21

21 imes 3 - 3 = 60

60 imes 3-3 = 177

 $177 \times 3 - 3 = 528$ 

=> Ans - (B)

```
Question 13
```

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) Out of 100 people 87 do regular exercising and 35 restrain from unnecessary diet.

(II) These 100 people belong to metro city region.

**Conclusion:** 

(I) 35 % people do exercising and dieting.

(II) In metro city region people are more health conscious.

- A Only conclusion II follows
- B Conclusion I and II both follow
- C Neither I nor II follow
- D Only conclusion I follows

Answer: C

### **Explanation:**

35 restrain from unnecessary diet which means 35% people do dieting but we cannot say definitely that these 35 people are among the 87 people who do exercise. The 13 people who do not exercise maybe among the 35 people. Hence Conclusion I is false.



100 people belong to the metro city region who are health conscious but there is no information about remaining people of the city. Hence Conclusion II is false.

... Neither Conclusion I nor Conclusion II follows

Hence, the correct answer is Option C

# SSC CGL Free Mock Test (Latest Pattern)

### **Question 14**

Rahul's age is three times the age of Sumit. If Rahul is 15 years old presently, determine the age (in years) of Sumit after 12 years.

5 years



**D** 17

Answer: D

Explanation: Rahul's present age = 15 years

Also, Rahul's age is three times the age of Sumit, => Sumit's present age =

 $\therefore$  Age (in years) of Sumit after 12 years = 12+5=17 years

=> Ans - (D)

**Question 15** 

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

i. Preview

ii. Preventive

- iii. Prefer
- iv. Preformation
- **A** iii,ii,i,iv
- B iv,iii,i,ii
- C iii,iv,ii,i
- D iii,i,ii,iv

Answer: C

Explanation:

As per the order of dictionary :

= Prefer -> Preformation -> Preventive -> Preview

- $\equiv$ iii,iv,ii,i
- => Ans (C)

### Question 16

In a certain code language, "BRING" is written as "25698" and "JAIL" is written as "4367". How is "BRINJAL" written in that code language?

A 2566437



**B** 2569437

- **C** 2569347
- **D** 2659437

Answer: B

### Explanation:

The codes for each letter is given :

B -> 2 R -> 5 I -> 6 N -> 9 J -> 4 A -> 3 L -> 7

Thus, BRINJAL : 2569437

=> Ans - (B)

# SSC CHSL Important Questions and Answers (Download PDF)

**Question 17** 

In the following question, select the missing number from the give series

5 12 18	
6 11 12	
61 265 ?	
<b>A</b> 465	
A 405	
<b>B</b> 470	
<b>C</b> 468	
<b>D</b> 430	
Answer: C	
Evaluation:	
In each column the number	at the end is obtained by adding the squares of other numbers
in each column, the number	at the end is obtained by adding the squares of other numbers.
$Eg:-5^2+6^2=25+36=$	61
$12^2 + 11^2 = 144 + 121 =$	= 265
Similarly, $18^2 + 12^2 = 324$	4 + 144 = 468
	1

=> Ans - (C)

Question 18

If "A" means "subtraction", "B" means "division", "C" means "addition" and "D" means "multiplication", then 305 B 5 A 28 C 43 D 12 = ?

**A** 569

**B** 549

**C** 560

**D** 530



### Answer: B

### **Explanation:**

Expression : 305 B 5 A 28 C 43 D 12 = ?

$$\equiv 305 \div 5 - 28 + 43 \times 12$$
  
=  $\binom{305}{5} + (-28) + (43 \times 12)$   
=  $61 - 28 + 516 = 549$ 

=> Ans - (B)

**Question 19** 

Which set of letters when sequentially placed at the gaps in the given letter series shall complete it? AB\_AB\_AA\_BB\_

- A ABBA
- B BBBB
- C ABBB
- D BBBA
  - Answer: A

### **Explanation:**

The pattern followed is that the term 'ABA' is repeated with increase in B after each term.

- = ABA ABBA ABBA
- => Ans (A)

# **SSC CHSL Study Material**

### **Question 20**

Ram is facing towards the south. He turns to his left and moves 40 km, and then turns to his right and moves 50 km more. Finally, he turns to his left again and moves 60 km. Which direction is he facing now?

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

Answer: A

### **Explanation:**



Ram is facing towards the south. He turns to his left and moves towards east for 40 km, and then turns to his right and moves 50 km southwards. Finally, he turns to his left again and moves 60 km.

Thus, he is facing east direction in the end.

=> Ans - (A)





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, V can be represented by 21, 40, etc., and U can be rep-resented by 96, 67, etc. Similarly, you have to identify the set for the word CARRY.

NЛ	a	tr	İΥ	-	н
	u		17		

						_
	0	1	2	3	4	
0	R	Α	R	Y	Α	
1	Α	С	М	Q	Н	
2	U	Y	L	С	Р	
3	Α	Н	Α	Р	С	
4	Y	Α	С	Y	1	
Matrix - II						

	5	6	7	8	9
5	V	М	R	G	м
6	Α	R	U	D	U
7	R	М	Α	С	Α
8	С	Х	С	Α	Y
9	М	U	Y	S	Α

- **A** 42,65,57,13,86
- **B** 11, 99,12,43,68
- C 23,04,66,95,89
- **D** 34,79,00,66,97

Answer: D

### **Explanation:**

(A) : 42,65,57,13,86 = CARQX

(B) : 11, 99,12,43,68 = CAMYD

- (C): 23,04,66,95,89 = CARMY
- (D): 34,79,00,66,97 = CARRY

=> Ans - (D)

### **Question 22**

A man says to a lady, "Your father is the father-in-law of my father's only child." How is the lady related to the man?

- A Sisterinlaw
- B Granddaughter
- C Wife
- D Daughter
  - Answer: C

### **Explanation:**

The man's father's only child = the man himself

Now, the lady's father is the man's father-in-law, => they are married.













Answer: A

### **Explanation:**

If a mirror is placed on the line MN,

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

The given figure is inclined towards left so the mirror image will be inclined towards right

... The mirror image of the given figure is





Hence, the correct answer is Option A

**Question 24** 

Identify the diagram that best represents the relationship among the given classes. Vegetable, Park, Carrot









Answer: C

Explanation:

Carrot is a Vegetable

Park is not related to Carrot and Vegetable

... The diagram that best represents the relationship between them is



Hence, the correct answer is Option C

### **Question 25**

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: A

D

### Explanation:

When the paper is unfolded first to the left, a star will appear similarly on the left part.

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

: When the paper is opened it will appear as shown below



Hence, the correct answer is Option A

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# **General Awareness**

### Instructions

For the following questions answer them individually

**Question 26** 

### The command that merges the contents of one file to another is

A APPEND

**B** RENAME

- C RESTORE
- D ADD

Answer: A

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**Question 27** 

Dishwasher was invented by .....

- A John Barber
- B Sir Henry Cole
- C Josephine Cochrane
- D Bartolomeo Cristofori

Answer: C

**Question 28** 

Prothrombin, responsible for clotting of blood is released by.....

A Small Intestine
B Blood Platelets
C Large Intestine
D Heart
Answer: B

**Question 29** 

Acacia arabica is the scientific name of

- A Neem
- B Teak
- C Babhul
- D Pomegranate

Answer: C

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Question 30				
Cannis Vulpes is the scientific name of				
A Dog				
B Wolf				
C Fox				
D Hyena				
Answer: C				
Question 31				
What is the pH of water?				
A 7				
<b>B</b> 5				
<b>c</b> 3				
D 1				
Answer: A				
Question 32				
Solid carbon dioxide is known as				
А Нуро				
B Borax				

- c Alum
- D Dry ice
  - Answer: D

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

### **Question 33**

Oil paint was first used for Buddhist paintings by Indian and Chinese painters in western part of which country sometime between the fifth and tenth centuries?

- A Iraq
- **B** Afghanistan
- C Pakistan
- D India

Answer: B

**Question 34** 

Flamingo festival is celebrated in which state?

- A Karnataka
- B Kerala
- C Andhra Pradesh
- D Maharashtra

Answer: C

### **Question 35**

If for the year a country's GDP was \$990 million, consumer spending was \$630 million, investment by businesses was \$110 million, exports were \$55 million and imports were \$45 million, calculate government spending?

- A \$260 million
- B \$240 million
- C \$480 million
- D \$460 million

Answer: B

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### **Question 36**

In economic equilibrium, what is the condition of the supply and demand?

- A supply is equal to the demand.
- **B** the surplus is larger than the shortage.



c elasticity of demand equals elasticity of supply

D price elasticity of demand is unity

Answer: A

**Question 37** 

Beryl is an ore/mineral of

A Nickel

**B** Beryllium

- C Lead
- D Tin

Answer: B

**Question 38** 

What is the Greenhouse Effect?

- A The fall in population of plants due to human activity
- B It is the warming of earth's surface due to its atmosphere
- C The polluting effect of burning fossil fuels
- D The heating of the atmosphere due to depletion of the ozone layer
   Answer: B

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**Question 39** 

### The longest railway platform in India

- A Amritsar
- B Gorakhpur
- **C** Kathgodam
- D Kanpur

Answer: B

**Question 40** 

In terms of size, Saturn ranks no. in our Solar System.

- **A** 1
- **B** 2
- **C** 3
- **D** 4



4	Answer: B				
Qu	estion 41				
Wł	Which of the following continents has the smallest land area?				
Α	Antarctica				
В	Europe				
С	North America				
D	South America Answer: B				
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Qu	estion 42				
Wł	o built Jodhpur Fort?				
Α	Guru Ramdas				
В	Shah Jahan				
С	Rao Jodha				
D	Mahatma Gandhi				
	Answer: C				
Qu	estion 43				
Ba	ttle of Panipat was fought in the year				
Α	1764				
В	1757				
С	1526				
D	1857				
	Answer: C				
Qu	estion 44				
Na	me the first Indian to get Nobel prize in literature.				
Α	Rabindranath Tagore				
В	CV Raman				
С	Lal Bahadur Shastri				
D	Amartya Sen				
	Answer: A				

# **SSC CHSL Free Mock Test**



- A Barometer
- B Hexameter
- C Nanometer
- D Glaxometer Answer: A

### **Question 46**

Instrument for measuring rainfall is called

- A Lucimeter
- B Galactometer
- C Hyetometer
- D Hygrometer

Answer: C

### **Question 47**

What is the total number of members in Rajya Sabha from States and Union Territories?

- **A** 218
- **B** 228
- **C** 238
- **D** 248

Answer: C

# SSC CHSL Prevoius Papers (DOWNLOAD PDF)

### **Question 48**

The Look East Policy in India was started by which Prime Minister?

- A Rajiv Gandhi
- B Atal Bihari Vajpayee
- C P.V. Narasimha Rao
- D Manmohan Singh
  - Answer: C



### **Question 49**

Who won the Gold Medal in 400m sprint in 2016 Summer Olympics?

- A Usain Bolt
- B Justin Gatlin
- C Andre De Grasse
- D Wayde van Niekerk

Answer: D

**Question 50** 

Who wrote the book "The God of Small Things"?

- A Arundhati Roy
- B Anita Desai
- C Amartya Sen
- D Arun Shourie
  - Answer: A

# SSC CGL Previous Papers (DOWNLOAD PDF)

## **English**

Instructions

For the following questions answer them individually

**Question 51** 

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

- A Lack of knowledge is a curse
- B Sometimes it is better for you if you do not know all the facts
- C Fools believe they know more than the wise
- D To be truly happy one should ignore everything else

Answer: B

# SSC CGL Free Mock Test (Latest Pattern)

### **Question 52**

Select the word with the correct spelling.

- A fidellity
- B befalen
- c probable



**D** salwager

Answer: C

**Question 53** 

Improve the bracketed part of the sentence. Varun goes (for cinema) every Friday.

- A to cinema
- B to the cinema
- **C** in cinema
- D no improvement

Answer: B

### **Question 54**

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

- A A party with very loud music
- B To have peace amidst noise
- C To have a lot of fun
- D An explosion of happiness

Answer: C

# SSC CHSL Important Questions and Answers (Download PDF)

### **Question 55**

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. It is impossible to do this job.

- A This job is impossible to be done.
- B This job cannot be done with.
- C No one can do this job.
- D This job cannot be done by anyone.

Answer: A

### **Question 56**

Select the word with the correct spelling.

- A essoteric
- B manerly
- C sawsages



D dissolve

Answer: D

### **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. This is the time that you need to .....all your strength.

Α	muster	
В	build	
С	capture	
D	show	
	Answer: A	

# **SSC CHSL Study Material**

### **Question 58**

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'.

There is renewed sense(A)/of urgency in(B)/completing the project.(C)/No error(D)

- A There is renewed sense
- B of urgency in
- **C** completing the project.
- D No error

Answer: A

### **Question 59**

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase. to allay the sorrow or grief

- A to lament
- B to console
- **C** distress
- D solace

Answer: B

### **Question 60**

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'. Your motivational speech(A)/has had the tremendous(B)/effect on my students.(C)/No error(D)

- A Your motivational speech
- B has had the tremendous



c effect on my students. D No error Answer: B Question 61 Rearrange the parts of the sentence in correct order. A significant number Pin the rural nonfarm sector Qto be created Rof these jobs will have

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

Answer: B

### **Question 62**

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 child looked up at her teacher, obviously afraid that she would further ......her.

- A revere
- B extol
- C laud
- D chastise
  - Answer: D

### **Question 63**

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. Jyoti said to her sister, "The RBI is India's central bank".

- A Jyoti told her sister the RBI was India's central bank.
- B Jyoti told her sister that the RBI was India's central bank.
- C Jyoti told her sister that the RBI is India's central bank.
- D Jyoti told her sister the RBI is India's central bank.

Answer: C

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### **Question 64**

Select the antonym of escort

entourage Α В cavalier С foe D convoy Answer: C **Question 65** Select the synonym of to permeate to desiccate Α to imbue B torrid С D stale Answer: B **Question 66** Select the antonym of demon spectre Α В angel shadow С D zombie Answer: B

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Question 67

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase. to teach a person to accept a set of beliefs uncritically

- A to drill
- B to instill
- C to indoctrinate
- D to convince

Answer: C



### **Question 68**

Improve the bracketed part of the sentence Mr. Shah (is having) two houses.

- A has
- B got
- **C** has been having
- D no improvement

Answer: A

### **Question 69**

Select the synonym of swine

- A hog
- **B** simple
- **C** immaculate
- D shine
  - Answer: A

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**Question 70** 

Rearrange the parts of the sentence in correct order By doing so, it Pbrought it closer Qto cultural and social life Rhas redefined politics and

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

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.

**Question 71** 

(1)





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Qu	estion 73	
(3)		
A	For	
В	То	
С	Ву	
D	About	
	Answer: A	A A A A A A A A A A A A A A A A A A A
Qu	estion 74	
(4)		
A	the	
В	а	
С	them	
D	him	
4	Answer: B	
Qu	estion 75	
(5)		
Α	critical	
В	sarcastic	
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- c cynical
- D satirical
  - Answer: A

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# **Mathematics**

**Instructions** For the following questions answer them individually

### **Question 76**

If (cosecA -1)/(cosecA + 1) = x, then the value of x is

- **A**  $(sinA/(1 + cosA))^2$
- **B**  $\cos A/(1 + \sin A)$
- **C**  $(cosA/(1+sinA))^2$
- **D** sinA/(1 + cosA)

Answer: C

### **Explanation:**

```
Expression : \frac{cosecA-1}{cosecA+1}
= \binom{1}{sinA} - 1 \div \binom{1}{sinA} + 1)
= \binom{1-sinA}{sinA} \div \binom{1+sinA}{sinA}
= \binom{1-sinA}{sinA} \times \binom{1+sinA}{1+sinA}
= \frac{1-sinA}{1+sinA}
```

Multiplying both numerator and denominator by  $\left(1+sinA
ight)$ 

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

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### Product of 6ab, 3b and 4a is



**A** 120 0

144ab

В

- **C** 72ab
- **D**  $144a^2b^2$



### Answer: A

### Explanation:

Product of : 6ab, 3b and 4a

$$= (6 \times 3 \times 4) \times (ab \times b \times a)$$

 $= 72a^2b^2$ 

=> Ans - (A)

**Question 78** 

An octahedron has 6 vertices. How many edges does it have?

**A** 8

- **B** 12
- **C** 6
- **D** 10

Answer: B

# Explanation:

Octahedron :

Euler's formula : V + F - E = 2 where V is number of vertices , F is number of faces and E is number of edges. Octahedron has 6 vertices and 8 faces.

=> E = V + F - 2 = 6 + 8 - 2=> E = 14 - 2 = 12=> Ans - (B) Question 79

By increasing the price of entry ticket to a fair in the ratio 5:7, the number of visitors to the fair has decreased in the ratio 11:9. In what ratio has the total collection increased or decreased?

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- A increased in the ratio 55:63
- B decreased in the ratio 63:55
- C increased in the ratio 45:77
- D decreased in the ratio 77:45

Answer: A

### Explanation:

Let cost of original ticket = Rs 5 and and number of visitors = 110

=> Original revenue = 5  $\,\times\,$  110 = Rs 550

After increase in cost of ticket



New cost of ticket = Rs 7 and number of visitors = 90





: Increase of total collection ratio =  $\begin{array}{c} 550\\630\end{array}$  = 55:63 => Ans - (A)

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# **Question 80** The largest 5 digit number exactly divisible by 84 is: Α 99960 99955 В С 99952 99956 D Answer: A **Explanation:** Largest 5 digit number = 99999 If 99999 is divided by 84, => 99999 = 84 $\times$ 1190 + 39 Quotient is 1190 and remainder is 39 Thus, largest 5 digit number which is divisible by 84 = 99999 - 39 = 99960 => Ans - (A) **Question 81** If $3x + 2 \ge x - 1$ and $2x - 4 \le 2 - x/3$ ; then x can take which of the following values? Α -2 R 3 С 5 D 1 Answer: D **Explanation:** Expression 1 : $3x + 2 \ge x - 1$ $\Rightarrow 3x-x \geq -1-2$ => 2x > -3=> $x \ge \frac{-3}{2}$ -----(i) Expression 2 : $2x - 4 \le 2 - x/3$ $= 2x + \frac{x}{3} < 2 + 4$ $= 3 \frac{7x}{3} \le 6$ => $x \leq rac{18}{7}$ -----(ii)

Combining inequalities (i) and (ii), we get :  $\frac{-3}{2} \le x \le \frac{18}{7}$ The only value that x can take among the options = 1 => Ans - (D) **Question 82** What is the length of the side of a regular hexagon, if its area is  $54\sqrt{3}$  sq cm? Α 12 cm В 9 cm С 6 cm 15 cm D Answer: C **Explanation:** Let side of regular hexagon = a cmArea of regular hexagon =  ${}^{3\sqrt{3}}_{2}a^2$ 

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**Question 83** 

=> Ans - (C)

 $=> \frac{3\sqrt{3}}{2}a^2 = 54\sqrt{3}$ 

=>  $a^2 = 54 \times \frac{2}{3} = 36$ 

 $= a = \sqrt{36} = 6 \text{ cm}$ 

If  $\cot \pi/3 - \tan \pi/4 = x$ , then the value of x is

**A** √3+2

**B** (1-√3)/√3

**C**  $(1-\sqrt{2})/\sqrt{2}$ 

D (√3+2)/2√3

Answer: B

**Explanation:** Expression :  $\cot \pi/3 - \tan \pi/4 = x$ 

= cot(60) - tan(45)

 $= \sqrt{3}^{1} - 1$ 

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

=> Ans - (B)

**Question 84** 

The effective annual rate of interest corresponding to a nominal rate of 19% per annum payable halfyearly is:

A 38 percent

- B 19.9 percent
- **C** 39.81 percent
- D 19 percent

```
Answer: B
```

### Explanation:

Let sum be = Rs. 100x

Rate of interest = 19% under compound interest half yearly

Amount after 1 year =  $P(1+ \begin{smallmatrix} R \\ 2 imes 100 \end{smallmatrix})^{2 imes T}$ 

=  $100x(1+rac{19}{200})^{2 imes 1}$ 

=  $100x({{219}\atop{200}})^2 = {{219 \times 219 \times x}\over{400}}$ 

- = Rs. 119.9x
- => Compound Interest = Rs. (119.9x 100x) = Rs. 19.9x
- : Effective rate of interest =  ${19.9x \atop 100x} imes 100$
- = 19.9%
- => Ans (B)

### **Question 85**

In the first 38 overs of a cricket match, the run rate was 4.5 runs/over. Calculate the required run rate in the remaining 12 overs to reach the target of 288 runs?

- **A** 10.35
- **B** 10.95
- **C** 9.75
- **D** 9.15
  - Answer: C

### **Explanation:**

- Run rate in 38 overs = 4.5 runs/over
- => Runs scored in 38 overs =  $38 \times 4.5 = 171$

Runs needed to score in 12 overs = 288 - 171 = 117

9.75

=> Run rate required = 117

=> Ans - (C)

# SSC CHSL Prevoius Papers (DOWNLOAD PDF)

**Question 86** 

The sum of the ages of husband and wife at present is 56. Ten years ago the product of their ages was 320. What is the age of the husband and the wife?

- **A** 28, 28
- **B** 32, 24
- **C** 30, 26



D 29, 27

Answer: C

### **Explanation:**

Let husband's age = x years => Wife's age = (56 - x) years According to ques, (x - 10)(56 - x - 10) = 320=(x-10)(46-x)=320 $= 46x - x^2 - 460 + 10x = 320$  $= x^2 - 56x + 780 = 0$  $\Rightarrow x^2 - 30x - 26x + 780 = 0$ = x(x-30) - 26(x-30) = 0=(x-30)(x-26)=0 $\Rightarrow x = 30, 26$ : Ages of the husband and the wife = 30 and 26 years **Question 87** 

If 27% of an electricity bill is deducted, Rs 1825 is still to be paid. How much was the bill?

- Α Rs 1437
- В Rs 2536
- Rs 2500 С
- D Rs 1473

Answer: C

### Explanation:

Let the original bill amount = Rs.100xIf 27% of an electricity bill is deducted, bill left =  ${100-27 \atop 100} imes 100x = 73x$ According to ques, => 73x = 1825=>  $x = \frac{1825}{73} = 25$  $\therefore$  Original bill amount = 100 imes 25 = Rs.2500=> Ans - (C) **Question 88** If secA = x, then the value of x is  $\sqrt{(1-cot^2A)}$ Α  $\sqrt{(1-tan^2A)}$ В

**C**  $\sqrt{(1 + cot^2 A)}$ 

 $\sqrt{1 + tan^2}A$ D

Answer: D

**Explanation:** 



Expression : secA = x  $\therefore sec^2A - tan^2A = 1$ =>  $sec^2A = 1 + tan^2A$ =>  $secA = \sqrt{1 + tan^2A}$ => Ans - (D)

# SSC CGL Previous Papers (DOWNLOAD PDF)

### **Question 89**

The costs of daily ticket of local train is Rs 130 and Monthly Pass costs Rs 3091.40. If I buy the Monthly Pass and travel for 29 days in a month than I save (in percentage)?

A 16 percent

B 18 percent

C 15 percent

14 percent

D

Answer: B

### **Explanation:**

Train ticket cost for 1 day = Rs. 130

=> Cost for 29 days = 29  $\,\times$  130 = Rs. 3770

Cost of monthly pass = Rs. 3091.40

=> Money saved = 3770 - 3091.40 = Rs 678.6

.:. Required % =  ${}^{678.6}_{3770} \times 100 = 18\%$ 

=> Ans - (B)

### **Question 90**

A vendor buys some lemons at the rate of 11 for Rs 10 and sells at the rate of 4 for Rs 5. What will be the result?

- A 37.5 percent loss
- B 27.27 percent gain
- C 37.5 percent gain
- D 27.2 percent loss

Answer: C

### **Explanation:**

The vendor buys 11 lemons for Rs. 10

=> Cost price of 1 lemon =  $10_{11}^{10}$  = Rs 0.90

He sells 4 lemons for Rs. 5

=> Selling price of 1 lemon =  ${}_{4}^{5}$  = Rs 1.25

: Selling price is more than Cost price, the vendor earns a profit

=> Profit % =  ${(1.25-0.90) \atop 0.90} imes 100$ 

= 37.5%



### **Explanation:**

Equation 1 : 7x - 5y = 13Equation 2 : 2x - y = 5Multiplying equation (ii) by 5 and subtracting equation (i) from it, we get : => (10x - 7x) = (25 - 13)=> 3x = 12=>  $x = \frac{12}{3} = 4$ Substituting it in equation (ii), => y = 2(4) - 5=> y = 8 - 5 = 3  $\therefore (x - y) = 4 - 3 = 1$ => Ans - (D)

# SSC CGL Free Mock Test (Latest Pattern)

### **Question 92**

The perimeters of a square and an equilateral triangle are equal. If the diagonal of the square is 9 cm, what is the area of the equilateral triangle?

- A 18√3 sq cm
- **B** 9√3 sq cm
- C  $18\sqrt{2}$  sq cm
- **D**  $9\sqrt{2}$  sq cm

### Answer: A

### Explanation:

Let the side of square =  $s \, \mathrm{cm}$  and diagonal,  $d = 9 \, \mathrm{cm}$ 

 $\Rightarrow (s)^2 + (s)^2 = (d)^2$ 

 $\Rightarrow 2s^2 = 9^2 = 81$ 

 $=> s^2 = {81 \atop 2}$ 

 $= s = \sqrt{\frac{81}{2}} = \frac{9}{\sqrt{2}}$ 

Thus, perimeter of square = 4s

= 
$$4 imes \sqrt{\frac{9}{2}}=18\sqrt{2}$$
 cm

Also, perimeter of square = Perimeter of equilateral triangle =  $18\sqrt{2}$  cm

Let side of equilateral triangle = a cm

$$\Rightarrow 3a = 18\sqrt{2}$$

$$\Rightarrow a = \frac{18\sqrt{2}}{3} = 6\sqrt{2} \text{ cm}$$

: Area of equilateral triangle =  $4^{\sqrt{3}} a^2$ 

$$= {\sqrt{3} \atop 4} \times (6\sqrt{2})^2$$

$$= 18\sqrt{3} \ cm^2$$

### **Question 93**

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 7 km/h and that of police man as 12 km/h, how far the thief would have run, before he is overtaken?

- A 490 metres
- B 392 metres
- C 588 metres
- D 294 metres
  - Answer: A

### **Explanation:**

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

Speed of thief = 7 km/hr and speed of policeman = 12 km/hr

=> Relative speed = 12 - 7 = 5 km/hr

Distance between them = 350 metres = 0.35 km

=> Time taken = distanc speed

 $= {}^{0.35}_{5} = {}^{7}_{100}$  hr

: Distance covered by thief before he was caught = 7 imes 100

= 0.49 km = 490 metres

=> Ans - (A)

Question 94

Painter 'A' can paint a house in 10 days and 'B' can do it in 20 days. With help of 'C', they did the job in 5 days only. Then, 'C' alone can do the job in:

- A 20 days
- B 10 days
- C 40 days
- D 50 days

Answer: A







### **Explanation:**

Let total work to be done = 100 units

Painter 'A' can paint a house in 10 days and 'B' can do it in 20 days

=> A's efficiency =  ${}^{100}_{10} = 10$  units/day B's efficiency =  ${}^{100}_{20} = 5$  units/day Let C's efficiency = x units/day According to ques, all of them complete the job in 5 days =>  $(10 + 5 + x) \times 5 = 100$ =>  $x + 15 = {}^{100}_{5} = 20$ => x = 20 - 15 = 5... Time taken by C alone to do the job =  ${}^{100}_{5} = 20$  days

=> Ans - (A)

# SSC CHSL Important Questions and Answers (Download PDF)

### **Question 95**

What is the slope of the line parallel to the line passing through the points (4,6) and (2,3)?

- **A** -3/2
- **B** -2
- **C** 2
- **D** 3/2
- Answer: D

### **Explanation:**

Slope of line passing through points (2,3) and (4,6)

$$= {\begin{array}{*{20}c} 6-3 \\ 4-2 \end{array}} = {\begin{array}{*{20}c} 3 \\ 2 \end{array}$$

Slope of two parallel lines is always equal.

=> Slope of the line parallel to the line having slope  $3/2 = \frac{3}{2}$ 

=> Ans - (D)

**Question 96** 

The total surface area of a cuboid is 376 sq cm. Find its volume if its length and breadth are 10 cm and 8 cm respectively?

- A 960 cubic cms
- B 240 cubic cms
- **C** 480 cubic cms
- D 720 cubic cms

Answer: C

### Explanation:

Let height of the cuboid =  $h ext{ cm}$ 

Length,  $l=10~{\rm cm}$  and breadth,  $b=8~{\rm cm}$ 



Total surface area of cuboid = 2(lb + bh + hl) = 376=>  $2[(10 \times 8) + (8 \times h) + (h \times 10)] = 376$ =>  $80 + 18h = \frac{376}{2} = 188$ => 18h = 188 - 80 = 108=>  $h = \frac{108}{18} = 6$  $\therefore$  Volume of cuboid = lbh=  $10 \times 8 \times 6 = 480 \ cm^3$ 

=> Ans - (C)

Question 97

Refer the below data table and answer the following question.

	Quantity of stock	Average Cost
Mobile phones	47	11000
Cameras	60	9000
TVs	21	43000
Refrigerators	31	60000
Acs	82	22000

What is the value of total stock in lakh rupees

A 562.4

**B** 145

**C** 56.24

**D** 241

Answer: C

### **Explanation:**

Total cost of mobiles =  $47 \times 11000$  = Rs. 5,17,000

Total cost of Cameras = 60  $\times$  9000 = Rs. 5,40,000

Total cost of TVs = 21  $\,\times\,$  43000 = Rs. 9,03,000

Total cost of Refrigerator = 31 imes 60000 = Rs. 18,60,000

Total cost of AC = 82  $\,\times\,$  22000 = Rs. 18,04,000

... Total cost = 5,17,000 + 5,40,000 + 9,03,000 + 18,60,000 + 18,04,000 = Rs. 56,24,000

Total cost in lakhs = Rs 56.24 lakhs

=> Ans - (C)

# SSC CHSL Study Material

**Question 98** 

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Refer the below data table and answer the following question.

Year	Ratio Import/Export
2011	0.7
2012	1.1
2013	0.9
2014	1.2
2015	1

If the imports In 2012 was Rs. 1500 crores and the total exports In the years 2012 and 2013 together was Rs. 2000 crores, then the Imports In 2013 was?

A	575		
В	636		
С	1364		
D	707		
	Answer: A		
Ex	planation:		
In	nports in 2012 = Rs. 150	0 crores	
Le	et Exports in 2012 = Rs.	y crores	
Ra	atio of imports and expo	rts in 2012 = 1.1	
_ \	1500 - 1.1		
	y 1.1		
=>	$y = 1.1^{1500} = 1363.63$		
Тс	Total exports In the years 2012 and 2013 together = Rs. 2000 crores		
=>	Exports in 2013 = Rs. (2	2000 - 1363.63) crore	es = Rs 636.37 crores
Le	et imports in 2013 = Rs.	x crores	
Ra	Ratio of imports and exports in 2013 = ${}_{63}\overset{x}{}_{,37}=0.9$		
=>	x = 636.37  imes 0.9 =	572.733 pprox 573	
	Imports in 2013 was Rs	. 573 crores	
=>	Ans - (A)		
Qı	uestion 99		
Re	efer the below data table	e and answer the foll	owing question.
F	Measured on Birthday	Height of the child	
┝	4	100	
┝	5	105	
┝	6	115	
┝	7	125	
┝	8	130	

What was the increase in the height of the child from the 7th birthday to the 13 birthday ?

- A 55 cms
- **B** 50 cms
- **C** 45 cms
- **D** 40 cms
  - Answer: C

### **Explanation:**

Height on 7th birthday = 125 cm

Height on 13th birthday = 170 cm

Increase in height = 170 - 125 = 45 cm

=> Ans - (C)

**Question 100** 

Refer the below data table and answer the following question.

		and the second sec
Deep Sleep	10	
Dreaming	25	
Light Sleep	10	
Extremely Light Sleep	10	
Awake	45	]

Between 10pm to 6am, a fitness band records the following data. How long was the user in Deep Sleep or was in Extremely light sleep ?

- A 3.1 hours
- **B** 1.1 hours
- **C** 1.6 hours
- D 2.1 hours

Answer: C

### Explanation:

Total time between 10 pm to 6 am = 8 hours

% time spent in Deep Sleep or in Extremely light sleep = 10 + 10 = 20 %

=> Time spent in Deep Sleep or in Extremely light sleep =  $\begin{array}{c} 20\\ 100 \end{array} \times 8$ 

=  $\frac{8}{5} = 1.6$  hours

=> Ans - (C)



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