



## SSC CHSL 17 Jan 2017 Morning Shift

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**Instructions**

For the following questions answer them individually

**Question 1**

Select the antonym of to spurn

- A to accept
- B to flout
- C to scorn
- D to rebuff

Answer: A

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**Question 2**

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.:

"I'm off to the games. Where are you going?"

- A He said he would be off to the games and wanted to know where I was going.
- B He said he was going off to the games and wanted to know where I was planning to go.
- C He said he is going off to the games and asked me where I was planning to go.
- D He said that he was off to the games and wanted to know where I was going.

Answer: D

**Question 3**

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

- A close association with someone leads to a loss of respect for them
- B if you do an undesirable thing daily then it becomes acceptable
- C too many people living closely will eventually cause bitterness
- D routine has to be broken to bring excitement to life

Answer: A

**Question 4**

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase. a symbol that serves as an emblem of a group of people

- A obelisk
- B minaret
- C mast

D totem

Answer: D

## SSC CHSL Free Mock Test

### Question 5

In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase. Don't put all your eggs in one basket

- A avoid risky ventures if you want to be successful in life
- B don't risk everything on the success of one venture
- C one should try multiple things, at least one will succeed
- D those who are blessed with more children are happier

Answer: B

### Question 6

Select the antonym of to conceive

- A to reckon
- B to neglect
- C to apprehend
- D to perceive

Answer: B

### Question 7

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 criminal was released on .....for a few days so that he could spend time with his ailing mother.

- A parole
- B guarantee
- C grant
- D mercy

Answer: A

## SSC CHSL Previous Papers (DOWNLOAD PDF)

### Question 8

Improve the bracketed part of the sentence.

We don't need our computers to be infinitely fast, just a whole lot (faster than) they are today.

- A as fast as
- B faster than

C more faster than

D no improvement

Answer: D

**Question 9**

Rearrange the parts of the sentence in correct order.

Their judgment can be

P-easily swayed by false

Q-propaganda, as is being done

R-right now across the country

A QRP

B RPQ

C PRQ

D PQR

Answer: D

**Question 10**

Select the word with the correct spelling.

A adhision

B fundango

C canabis

D closeted

Answer: D

## SSC CGL Previous Papers (DOWNLOAD PDF)

**Question 11**

Select the synonym of rendezvous

A tryst

B dispersal

C rift

D split

Answer: A

**Question 12**

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.

I read the story in one night.

A The story had been read by me in one night.

- B The story has been read by me in one night.
- C In one night the story has been read by me.
- D The story was read by me in one night.

Answer: D

**Question 13**

Improve the bracketed part of the sentence. The teacher did not ask (any questions to Rinky).

- A any questions of Rinky
- B to Rinky any questions
- C Rinky any questions
- D no improvement

Answer: C

## SSC CGL Free Mock Test (Latest Pattern)

**Question 14**

Select the word with the correct spelling.

- A dievorce
- B carapase
- C usefully
- D shuffles

Answer: C

**Question 15**

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'.

Being occupied with(A)/work, father had no(B)/time to see us(C)/No error(D)

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

Answer: D

**Question 16**

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 employee had become .....to both the manager's praise as well as reprimand.

- A hardened

- B indifferent
- C hostile
- D immune

Answer: B

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

### Question 17

Select the synonym of defuse

- A irritate
- B alleviate
- C agitate
- D incite

Answer: B

### Question 18

Rearrange the parts of the sentence in correct order.

Although no convincing  
P-arguments were made against  
Q-was commotion in the House  
R-the amendment, there

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

Answer: C

### Question 19

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'.

Visitors to the zoo(A)/are amused by the monkeys(B)/play in the cages.(C)/No error(D)

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

Answer: C

**Question 20**

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase. to leave a place suddenly or secretly.

- A scarce
- B ligger
- C decamp
- D loiter

**Answer: C**

**Instructions**

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

Equally disappointing is the court's ..... , one-paragraph dismissal of the claim that criminal .....creates a chilling effect upon speech. Such proclamations are easy .....from the high, secure, and insulated bench of the Supreme Court. It is journalists and newspapers, fighting hundreds of .....cases in court, .....have to deal with the very real consequences.

**Question 21**

Equally disappointing is the court's .....

- A cursory
- B shortened
- C tiny
- D slight

**Answer: A**

**Question 22**

criminal .....creates a chilling effect upon speech

- A defamating
- B defamation
- C defamate
- D defamations

**Answer: B**

**Question 23**

Such proclamations are easy .....from the high

- A making
- B made
- C for making

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D to make

Answer: D

**Question 24**

It is journalists and newspapers, fighting hundreds of .....cases in court

A imaginary

B frivolous

C unintelligible

D ordinary

Answer: B

**Question 25**

.....have to deal with the very real consequences.

A whom

B which

C who

D those

Answer: 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.

Land of the Rising Sun : Japan :: The Land of the Thunder Dragon : ?

A Bhutan

B Pakistan

C India

D Sri Lanka

Answer: A

**Explanation:**

Japan is known as the Land of the Rising Sun, similarly, *Bhutan* is known as The Land of the Thunder Dragon because of the large thunderstorms that whip down through the valleys from the Himalayas.

=> Ans - (A)



**Question 27**

Select the related word/letters/number from the given alternatives. CD : PQ :: GH : ?

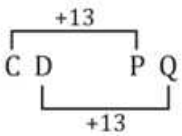
- A RS
- B TU
- C UV
- D WX

**Answer: B**

**Explanation:**

Expression = CD : PQ :: GH : ?

The pattern followed is :



Similarly, GH (+13) : TU

=> Ans - (B)

**Question 28**

Select the related word/letters/number from the given alternatives. EF : JA :: NO : ?

- A TI
- B RK
- C SJ
- D HU

**Answer: C**

**Explanation:**

Expression = EF : JA :: NO : ?

The pattern followed is :



Similarly, NO : SJ

=> Ans - (C)

**Question 29**

Select the related word/letters/number from the given alternatives.  
17 : 493 :: ? : 551

- A 13
- B 21
- C 19
- D 23

**Answer:** C

**Explanation:**

Expression =  $17 : 493 :: ? : 551$

The pattern followed is =  $x : 29x$

Eg :-  $17 : 29 \times 17 = 17 : 493$

Similarly,  $\frac{551}{29} = 19$

=> Ans - (C)

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**Question 30**

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

- A Bismillah Khan
- B C. V. Raman
- C Homi Jehangir Bhabha
- D Vikram Sarabhai

**Answer:** A

**Explanation:**

Except Bismillah Khan other three are related to the field of science, hence he is the odd one out.

=> Ans - (A)

**Question 31**

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

- A VR
- B LH
- C SW
- D FB

**Answer:** C

**Explanation:**

(A) : V (-4 letters) = R

(B) : L (-4 letters) = H

(C) : S (+4 letters) = W

(D) : F (-4 letters) = B

=> Ans - (C)

**Question 32**

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

- A 863
- B 785

C 791

D 647

**Answer: B**

**Explanation:**

Sum of digits of numbers is 17, but  $7 + 8 + 5 = 20$ , hence it is the odd one out.

=> Ans - (B)

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**Question 33**

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

A 3284

B 4058

C 2137

D 2363

**Answer: D**

**Explanation:**

Product of last two digits is equal to the first two digits, but  $6 \times 3 \neq 23$ , hence it is the odd one out.

=> Ans - (D)

**Question 34**

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. Mesopotamian civilization, Egyptian civilization, ?, Chinese civilization

A Greek civilization

B Roman civilization

C Persian civilization

D Indus valley civilization

**Answer: D**

**Explanation:**

Civilizations as per their timeline in increasing order.

= Mesopotamian civilization -> Egyptian civilization -> Indus valley civilization -> Chinese civilization

=> Ans - (D)

**Question 35**

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. TUV, ZAC, FGI, LMO, ?

A PQS

B RSU

C QRT

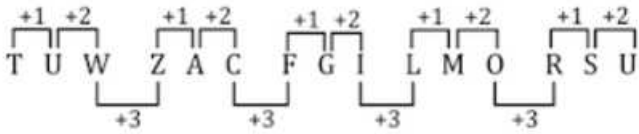
D UVX

Answer: B

Explanation:

Expression : TUV, ZAC, FGI, LMO, ?

The pattern followed is :



Thus, missing term = RSU

=> Ans - (B)

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Question 36

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

A EF

B DE

C FG

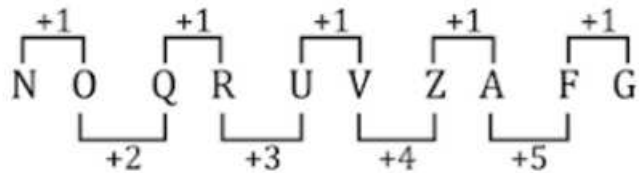
D GH

Answer: C

Explanation:

Expression : NO, QR, UV, ZA, ?

The pattern followed is :



Thus, missing term = FG

=> Ans - (C)

Question 37

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. 7, 13, 21, 31, 43, 57, ?

A 73

B 83

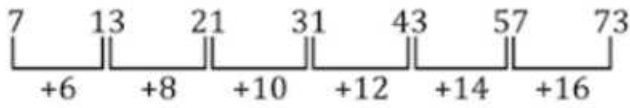
C 78

D 63

Answer: A

Explanation:

Even numbers are added.



Thus, missing number = 73

=> Ans - (A)

**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) All fans are cups.

(II) All cups are pillows.

**Conclusion:**

(I) All fans are pillows.

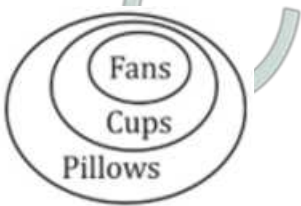
(II) All pillows are fans.

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

**Answer: A**

**Explanation:**

The venn diagram for above statements is :



Conclusion:

(I) All fans are pillows = true

(II) All pillows are fans = false

Thus, only conclusion I follows

=> Ans - (A)

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**Question 39**

If 5th January 2011 was a Thursday, then what day of the week was it on 1st January 2013 ?

- A Thursday
- B Wednesday
- C Tuesday
- D Monday

**Answer: B**

**Explanation:**

Number of odd days in a non-leap year = 1 and number of odd days in a leap year = 2

It is given that 5th January 2011 = Thursday

=> Day on 31st December 2010 = Saturday

Now, number of odd days from year 2011 to 2012 =  $(1 + 2) = 3$

=> Day on 31st December 2012 = Saturday (+3) = Tuesday

∴ On 1st January 2013, it was **Wednesday**.

=> Ans - (B)

#### Question 40

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

- i. Next
- ii. Noisy
- iii. Neutral
- iv. Neither

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

**Answer: D**

#### Explanation:

As per the order of dictionary :

= Neither -> Neutral -> Next -> Noisy

≡ iv, iii, i, ii

=> Ans - (D)

#### Question 41

In a certain code language, "TERMITE" is written as "UDSLJSF". How is "MINISTER" written in that code language?

- A NHOHSTFQ
- B NHHOTSFQ
- C NHOHTSFQ
- D NHOHTSQF

**Answer: C**

#### Explanation:

"TERMITE" is written as "UDSLJSF"

The pattern followed is :

T	E	R	M	I	T	E
+1↓	+1↑	+1↓	+1↑	+1↓	+1↑	+1↓
U	D	S	L	J	S	F

Similarly, for MINISTER : NHOHTSFQ

=> Ans - (C)

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### Question 42

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

T	R	H
D	M	W
48	62	?

A 70

B 62

C 64

D 68

Answer: B

### Explanation:

The pattern followed is that the alphabets are numbered alphabetically, A=1, B=2, C=3 and so on.

$$\Rightarrow T=20 \text{ and } D=4 \Rightarrow (20 + 4) \times 2 = 48$$

$$R=18 \text{ and } M=13 \Rightarrow (18 + 13) \times 2 = 62$$

$$\text{Similarly, } H=8 \text{ and } W=23 \Rightarrow (8 + 23) \times 2 = 62$$

$\Rightarrow$  Ans - (B)

### Question 43

If "A" denotes "added to", "B" denotes "divided by", "C" denotes "multiplied by" and "D" denotes "subtracted from", then  $87 \text{ B } 3 \text{ C } 4 \text{ A } 4 \text{ D } 50 = ?$

A 65

B 75

C 70

D 80

Answer: C

### Explanation:

Expression :  $87 \text{ B } 3 \text{ C } 4 \text{ A } 4 \text{ D } 50 = ?$

$$\equiv 87 \div 3 \times 4 + 4 - 50$$

$$= (29 \times 4) - 46$$

$$= 116 - 46 = 70$$

$\Rightarrow$  Ans - (C)

### Question 44

In the following question, which one set of letters when sequentially placed at the gaps in the given letter series shall complete it ?  
M\_Q\_C\_M\_Q\_CM

A QCMCQ

B CQMCQ

C CQCMQ

D CQMQC

Answer: B

Explanation:

The pattern followed is that in groups of 3, the term 'MCQ' is alternatively repeated with its reverse.

= MCQ QCM MCQ QCM

=> Ans - (B)

## SSC CHSL Free Mock Test

Question 45

A girl is standing facing towards the south. She turns 135 degree in the anticlockwise direction and then again takes a 180 degree turn in the anticlockwise direction. Which direction is she facing now ?

A South-west

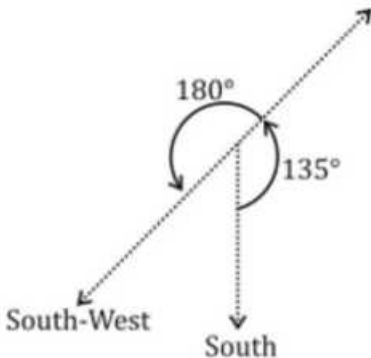
B South

C South-east

D West

Answer: A

Explanation:



The girl is initially facing towards the south. She turns 135 degree in the anticlockwise direction and faces north-east, then again takes a 180 degree turn in the anticlockwise direction.

Finally, she is facing south-west.

=> Ans - (A)

Question 46

Word A 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, F can be represented by 32, 42, etc., and M can be represented by 88, 68, etc. Similarly, you have to identify the set for the word WATER.

Matrix - I

	0	1	2	3	4
0	R	N	W	H	T
1	W	I	N	T	L
2	L	G	W	N	R
3	R	T	F	I	W
4	T	L	F	N	R

Matrix - II

	5	6	7	8	9
5	I	E	D	A	O
6	A	I	I	M	E
7	R	A	G	I	O
8	D	D	T	M	I
9	E	E	D	M	A



- A 34, 65, 13, 85, 44
- B 10, 76, 31, 86, 11
- C 22, 99, 40, 95, 30
- D 02, 58, 89, 69, 75

Answer: C

Explanation:

(A) : 34, 65, 13, 85, 44 = WATDR

(B) : 10, 76, 31, 86, 11 = WATDI

(C) : 22, 99, 40, 95, 30 = **WATER**

(D) : 02, 58, 89, 69, 75 = WAIER

=> Ans - (C)

Question 47

Preeti is the daughter of Rajesh and Amit is the son of Ankita. Rajesh is the only son of Rajan. Ankita is the daughter-in-law of Rajan. How is Preeti related to Amit ?

- A Sister
- B Mother
- C Cousin
- D Aunt

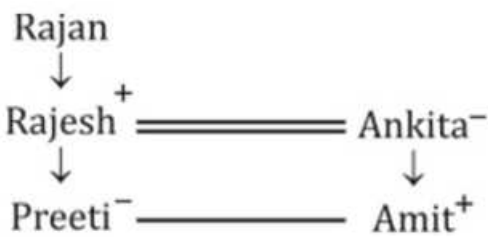
Answer: A

Explanation:

Ankita is the daughter-in-law of Rajan.

Rajesh is the only son of Rajan, => Ankita and Rajesh are married.

Preeti is the daughter of Rajesh and Amit is the son of Ankita, => Preeti and Amit are siblings.



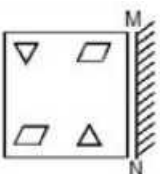
Thus, Preeti is the sister of Amit.

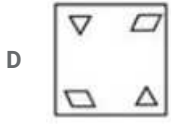
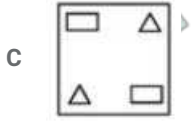
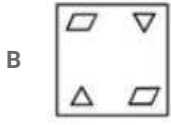
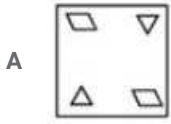
=> Ans - (A)

## 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 ?





Answer: A

**Explanation:**

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

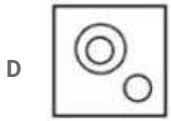
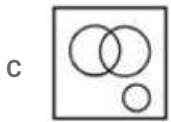
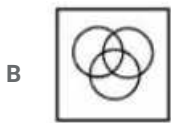
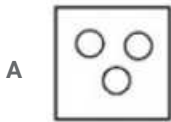
So the triangle (pointing downwards) at top left will be reversed and will face downwards at top right position, thus the last two options will be eliminated.

Also, in the question figure, the parallelograms at right diagonal position will shift top left diagonal and will change their shape, hence first option is the right image.

=> Ans - (A)

**Question 49**

Identify the diagram that best represents the relationship among the given classes. College, University, Students

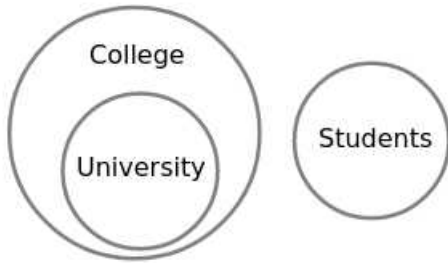


Answer: D

**Explanation:**

All Universities are Colleges but not all Colleges are not Universities and both of them are institutions. Students are different entity who are institutions.

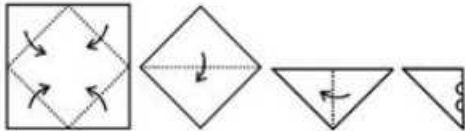
∴ The diagram that best represents the relationship among the given classes is



Hence, the correct answer is Option D

**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.



- A
- B
- C
- D

**Answer:** C

**Explanation:**

When the paper is unfolded to the right, two circles will appear at the bottom.

When the paper is unfolded for the second time to the top, two circles will appear similarly at the top part.

When the paper is unfolded again, the curved parts will appear similarly at the four parts.

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



Hence, the correct answer is Option C

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

**General Awareness**

**Instructions**

For the following questions answer them individually

**Question 51**

**Which of these monuments enshrines the tomb containing the relics of St. Francis Xavier?**

- A Basilica of Bom Jesus
- B Se Cathedral
- C Monte Hill
- D St. Alex Church

**Answer: A**

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

**Question 52**

**Name the first Indian to get Nobel prize in economics.**

- A Amartya Sen
- B C V Raman
- C Mihir Sen
- D Arun Shourie

**Answer: A**

**Question 53**

**Which compound is used in Anti-malarial drug?**

- A Aspirin
- B Neosporin
- C Chloroquin
- D Antacid

**Answer: C**

**Question 54**

**Which of these is not a macronutrient for Plants?**

- A Nitrogen
- B Phosphorus
- C Potassium
- D Chlorine

**Answer: D**

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

**Question 55**

**Name the respiratory organs of insects**

- A Skin
- B Body Surface
- C Gills
- D Tracheae

**Answer: D**

**Question 56**

**Which of the following elements has the lowest melting point?**

- A Platinum
- B Carbon
- C Cobalt
- D Krypton

**Answer: D**

**Question 57**

**Which among the following compounds has the best hydrogen bond?**

- A HI
- B HCl
- C HF
- D HBr

**Answer: C**

**SSC CHSL Study Material**

**Question 58**

**A set of instructions executed directly by a computer's central processing unit is .....**

- A Command Language
- B Machine Language
- C Markup Language
- D Style Sheet Language

**Answer: B**

**Question 59**

**Khasi tribes live in which state?**

- A Meghalaya
- B Assam
- C Rajasthan
- D Madhya Pradesh

Answer: A

**Question 60**

In 2015, the real rate of interest in a country was 6% and the inflation rate then was 3%. So the nominal rate of interest in 2015 was

- A 3%
- B 6%
- C 9%
- D 12%

Answer: C

**SSC CHSL Free App**

**Question 61**

In perfect competition a firm maximizes profit by .....

- A setting price such that price is equal to or greater than its marginal costs
- B setting output such that price equals average total costs
- C setting output such that price equals marginal costs
- D setting price so that it is greater than marginal cost

Answer: C

**Question 62**

Ozone hole is caused by chemicals like .....

- A Nitrogen Oxide
- B Hydrogen Sulphide
- C Chloro Fluoro Carbon
- D Carbon Monoxide

Answer: C

**Question 63**

The poisonous gas accidentally released in Bhopal Gas Tragedy is

- A Methane
- B Nitrous Oxide

C Methyl Isocyanate

D Cyanogen

Answer: C

## Daily Free SSC Practice Set

Question 64

Which country has the most coal reserves?

A Russia

B India

C China

D USA

Answer: D

Question 65

Venus is the .....planet from the Sun.

A 2nd

B 4th

C 6th

D 8th

Answer: A

Question 66

What is the capital of Australia?

A Copenhagen

B Canberra

C Athens

D Helsinki

Answer: B

## Free SSC Study Material (18,000 Solved Questions)

Question 67

Ashoka was an emperor of the .....Dynasty.

A Mughal

B Chola

C Maurya

D Gupta

Answer: C

Question 68

Which Mughal emperor imprisoned his father and executed his brother?

A Babur

B Humayun

C Aurangzeb

D Shah Alam II

Answer: C

Question 69

Piano was invented by .....

A John Barber

B Sir Henry Cole

C Josephine Cochrane

D Bartolomeo Cristofori

Answer: D

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Question 70

What is the viscosity of an ideal fluid?

A Equal to its mass

B Equal to its weight

C Zero

D One

Answer: C

Question 71

The SI unit of intensity of sound is .....

A watt per square meter

B joule per square meter

C newton per square meter

D tesla per square meter

Answer: A



**Question 72**

**Indian Constitution has how many Schedules?**

- A 4
- B 8
- C 12
- D 16

**Answer: B**

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**Question 73**

**Who was the first Deputy Speaker of Lok Sabha?**

- A G. V. Mavalankar
- B Sarvepalli Radhakrishnan
- C M. Ananthasayanam Ayyangar
- D Dr P V Cherian

**Answer: C**

**Question 74**

**Martin Crowe was a cricketer of which country?**

- A Australia
- B New Zealand
- C England
- D South Africa

**Answer: B**

**Question 75**

**Who wrote the book "Untouchable"?**

- A Premchand
- B Sarojini Naidu
- C K Natwar Singh
- D Mulk Raj Anand

**Answer: D**

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# Mathematics

## Instructions

For the following questions answer them individually

### Question 76

The bus fare between two cities is increased in the ratio 1:2. Find the increase in the fare, if the original fare is Rs. 175.

- A Rs 350
- B Rs 70
- C Rs 140
- D Rs 175

**Answer: D**

### Explanation:

Let original fare = Rs.  $x$

=> New fare = Rs.  $2x$

Also, original fare = 175 =  $x$

∴ Increase in fare =  $2x - x = x$

=  $1 \times 175 = \text{Rs. } 175$

=> Ans - (D)

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### Question 77

On dividing a number by 47, we get 75 as quotient and 18 as remainder. What is the number?

- A 3507
- B 3543
- C 3489
- D 3561

**Answer: B**

### Explanation:

Let the number be  $x$

Dividend = Divisor  $\times$  Quotient + Remainder

=>  $x = (47 \times 75) + 18$

=  $3525 + 18 = 3543$

=> Ans - (B)

### Question 78

The sum of  $2xy(3x + 4y - 5z)$  and  $5yz(2x - 3y)$  is

- A  $6x^2y - 8xy^2 + 15y^2z$
- B  $6x^2y + 8xy^2 - 15y^2z$

C  $6x^2y + 8xy^2 - 15y^2z - 20xyz$

D  $6x^2y - 8xy^2 + 15y^2z + 20xyz$

Answer: B

Explanation:

Sum of  $2xy(3x + 4y - 5z)$  and  $5yz(2x - 3y)$

$$= (6x^2y + 8xy^2 - 10xyz) + (10xyz - 15y^2z)$$

$$= 6x^2y + 8xy^2 - 15y^2z$$

=> Ans - (B)

Question 79

The length, breadth and height of a cuboid are 10 cm, 6 cm and 4 cm respectively. What is the total surface area?

A 248 sq cms

B 496 sq cms

C 124 sq cms

D 372 sq cms

Answer: A

Explanation:

Dimensions of cuboid  $l = 10$  cm,  $b = 6$  cm and  $h = 4$  cm

$$\text{Total surface area of cuboid} = 2(lb + bh + hl)$$

$$= 2[(10 \times 6) + (6 \times 4) + (4 \times 10)]$$

$$= 2(60 + 24 + 40)$$

$$= 2 \times 124 = 248 \text{ cm}^2$$

=> Ans - (A)

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Question 80

One internal angle of a rhombus of side 12 cm is  $120^\circ$ . What is the length of its longer diagonal?

A  $6\sqrt{3}$  cm

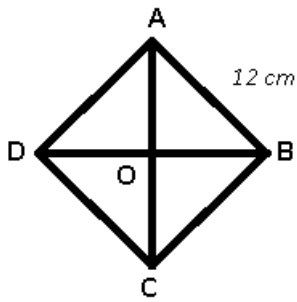
B  $12\sqrt{2}$  cm

C  $6\sqrt{2}$  cm

D  $12\sqrt{3}$  cm

Answer: D

Explanation:



Given : ABCD is a rhombus with  $AB = 12$  cm and  $\angle ABC = 120^\circ$

To find :  $AC = ?$

Solution : Diagonals of a rhombus bisect each other at  $90^\circ$  and bisect the angles opposite to them.

$$\Rightarrow \angle OBA = 60^\circ$$

$$\text{In } \triangle AOB, \sin(\angle OBA) = \frac{OA}{AB}$$

$$\Rightarrow \sin(60) = \frac{OA}{12}$$

$$\Rightarrow \frac{\sqrt{3}}{2} = \frac{OA}{12}$$

$$\Rightarrow OA = 6\sqrt{3} \text{ cm}$$

Since, the diagonals bisect each other,  $\Rightarrow AC = 2 \times (OA)$

$$= 2 \times 6\sqrt{3} = 12\sqrt{3} \text{ cm}$$

$\Rightarrow$  Ans - (D)

#### Question 81

There is 40% increase in an amount in 5 years at simple interest. What will be the compound interest of Rs. 25000 after 3 years at the same rate?

A Rs 6492.8

B Rs 12985.6

C Rs 16232

D Rs 9739.2

**Answer: A**

#### Explanation:

Let the principal =  $Rs.100x$

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

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

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

$$\Rightarrow 40x = \frac{100x \times 5 \times R}{100}$$

$$\Rightarrow R = \frac{40}{5} = 8\%$$

$$\text{Compound interest of Rs. 25,000 for 3 years} = P \left[ \left( 1 + \frac{R}{100} \right)^T - 1 \right]$$

$$= 25,000 \left[ \left( 1 + \frac{8}{100} \right)^3 - 1 \right]$$

$$= 25,000 \left[ \left( \frac{27}{25} \right)^3 - 1 \right]$$

$$= 25,000 \times \frac{19683 - 15625}{(25)^3} = 4058 \times \frac{8}{5}$$

$$= 4058 \times 1.6 = Rs\ 6492.8$$

=> Ans - (A)

**Question 82**

Suresh goes on a trip on his motor-cycle and rides for 410 kms. If he rides for 5 hours at a speed of 50 km/hr, find at what speed he travels for the remaining 4 hours of the journey?

- A 47 km/hr
- B 40 km/hr
- C 56 km/hr
- D 48 km/hr

**Answer: B**

**Explanation:**

Total distance covered = 410 km

He rides for 5 hours at a speed of 50 km/hr

=> Distance covered =  $5 \times 50 = 250$  km

Distance left =  $410 - 250 = 160$  km

∴ Speed he should travel for the remaining 4 hours of the journey =  $\frac{160}{4} = 40$  km/hr

=> Ans - (B)

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**Question 83**

If the radius of a circle is increased by 25%, its area increases by:

- A 50 percent
- B 25 percent
- C 28.125 percent
- D 56.25 percent

**Answer: D**

**Explanation:**

Let radius = 10 cm

=> Area of circle =  $\pi(10)^2 = 100\pi$  sq. cm

If radius is increased by 25%, => New radius =  $10 + \frac{25}{100} \times 10 = 12.5$  cm

New area =  $\pi(12.5)^2 = 156.25\pi$  sq. cm

=> % increase in area =  $\frac{156.25-100}{100} \times 100$

= 56.25%

=> Ans - (D)

**Question 84**

A shopkeeper, sold cashew nuts at the rate Rs 1,260 a kg and bears a loss of 8%. Now if he decides to sell it at Rs 1,386 per kg, what will be the result?

- A 1.2 percent gain

- B 2.4 percent gain
- C 1.2 percent loss
- D 2.4 percent loss

**Answer: A**

**Explanation:**

Let cost price of 1 kg of cashew nuts =  $Rs.x$

If Selling price of 1 kg of cashew nuts = Rs. 1260

$$\Rightarrow \text{Loss \%} = \frac{x-1260}{x} \times 100 = 8$$

$$\Rightarrow \frac{x-1260}{x} = \frac{8}{100} = \frac{2}{25}$$

$$\Rightarrow 25x - 31500 = 2x$$

$$\Rightarrow 25x - 2x = 23x = 31500$$

$$\Rightarrow x = \frac{31500}{23} \approx 1369.5$$

When selling price = Rs. 1386

$$\Rightarrow \text{Profit \%} = \frac{1386-1369.5}{1369.5} \times 100$$

$$= \frac{1650}{1369.5} \approx 1.2\%$$

$\Rightarrow$  Ans - (A)

**Question 85**

If  $\frac{(1-\sin A)}{(1+\sin A)} = x$ , then  $x$  is

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

**Answer: C**

**Explanation:**

Expression :  $\frac{(1-\sin A)}{(1+\sin A)}$

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

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

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

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

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

$\Rightarrow$  Ans - (C)

## SSC CHSL Previous Papers (DOWNLOAD PDF)

**Question 86**

An angle is thrice its complementary angle. What is the measure of the angle?

- A 22.5°
- B 135°
- C 45°
- D 67.5°

**Answer:** D

**Explanation:**

Let the angle =  $\theta$

Its complementary angle =  $(3\theta)$

Sum of an angle and its complementary angle =  $90^\circ$

$$\Rightarrow \theta + (3\theta) = 90^\circ$$

$$\Rightarrow 4\theta = 90^\circ$$

$$\Rightarrow \theta = \frac{90}{4} = 22.5^\circ$$

$\therefore$  Measure of the angle =  $3 \times 22.5 = 67.5^\circ$

$\Rightarrow$  Ans - (D)

**Question 87**

What is the length of the side of an equilateral triangle, if its area is  $36\sqrt{3}$  sq cm?

- A 6 cm
- B 24 cm
- C 12 cm
- D 18 cm

**Answer:** C

**Explanation:**

Let the side of equilateral triangle =  $a$  cm

$$\text{Area} = \frac{\sqrt{3}}{4} \times (a)^2 = 36\sqrt{3}$$

$$\Rightarrow (a)^2 = 36 \times 4 = 144$$

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

$\Rightarrow$  Ans - (C)

**Question 88**

If  $\frac{\cos\pi}{4} - \frac{\tan\pi}{4} = x$ , then  $x$  is

- A  $\frac{\sqrt{3}+4}{2\sqrt{3}}$
- B  $\frac{2\sqrt{2}-1}{2}$
- C  $\frac{1-\sqrt{2}}{\sqrt{2}}$
- D  $\frac{5}{\sqrt{3}}$

**Answer:** C

**Explanation:**

$$\text{Expression: } \frac{\cos\pi}{4} - \frac{\tan\pi}{4} = x$$

$$= \cos(45) - \tan(45)$$

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

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

=> Ans - (C)

## SSC CGL Previous Papers (DOWNLOAD PDF)

**Question 89**

If  $\tan A = x$ , then  $x$  is

A  $\sqrt{(\operatorname{cosec}^2 A + 1)}$

B  $\sqrt{(\sec^2 A + 1)}$

C  $\sqrt{(\operatorname{cosec}^2 A - 1)}$

D  $\sqrt{(\sec^2 A - 1)}$

**Answer: D**

**Explanation:**

We know that,  $\sec^2 A - \tan^2 A = 1$

$$\Rightarrow \tan^2 A = \sec^2 A - 1$$

$$\Rightarrow \tan A = \sqrt{\sec^2 A - 1}$$

=> Ans - (D)

**Question 90**

If the shopkeeper sells an item at Rs 1250 which is marked as Rs 1500, then what is the discount he is offering?

A 20 percent

B 16.67 percent

C 25 percent

D 10 percent

**Answer: B**

**Explanation:**

Marked Price = Rs. 1500

Selling price = Rs. 1250

$$\Rightarrow \text{Discount \%} = \frac{(1500-1250)}{1500} \times 100 = \frac{250}{15}$$

$$= \frac{50}{3} = 16.67\%$$

=> Ans - (B)

**Question 91**

The slopes of two lines are 1 and  $\sqrt{3}$ . What is the angle between these two lines?



- A 15°
- B 30°
- C 45°
- D 60°

**Answer:** A

**Explanation:**

Slope of the two lines,  $m_1 = 1$  and  $m_2 = \sqrt{3}$

Let angle between them =  $\theta$

$$\text{Then, } \tan(\theta) = \left| \frac{m_2 - m_1}{1 + m_1 m_2} \right|$$

$$\Rightarrow \tan(\theta) = \frac{\sqrt{3} - 1}{1 + \sqrt{3}}$$

$$\Rightarrow \tan(\theta) = \frac{\tan(60) - \tan(45)}{1 + \tan(60)\tan(45)}$$

$$\Rightarrow \tan(\theta) = \tan(60 - 45) \quad \because [\tan(A - B) = \frac{\tan A - \tan B}{1 + \tan A \tan B}]$$

$$\Rightarrow \theta = 15^\circ$$

$\Rightarrow$  Ans - (A)

## SSC CGL Free Mock Test (Latest Pattern)

### Question 92

Parimal has done 1/4th of a job in 10 days, Salim completes the rest of the job in 20 days. In how many days can they together do the job?

- A 8 days
- B 24 days
- C 12 days
- D 16 days

**Answer:** D

**Explanation:**

Let total work to be done = 80 units

$$\text{Work done by Parimal in 10 days} = \frac{1}{4} \times 80 = 20 \text{ units}$$

$$\text{Parimal's efficiency} = \frac{20}{10} = 2 \text{ units/day}$$

Remaining work = 80 - 20 = 60 units

Salim completes 60 units in 20 days

$$\Rightarrow \text{Salim's efficiency} = \frac{60}{20} = 3 \text{ units/day}$$

(Parimal + Salim)'s 1 day's work = 2 + 3 = 5 units/day

$$\therefore \text{Time taken by them together to do the job} = \frac{80}{5} = 16 \text{ days}$$

$\Rightarrow$  Ans - (D)

**Question 93**

If  $4x - 7 < x - 2$  and  $5x + \frac{2}{3} \geq 3x + 1$ ; then  $x$  can take which of the following values?

- A 2
- B -1
- C -2
- D 1

**Answer: D**

**Explanation:**

Expression 1 :  $4x - 7 < x - 2$

$$\Rightarrow 4x - x < 7 - 2$$

$$\Rightarrow 3x < 5$$

$$\Rightarrow x < \frac{5}{3} \text{ -----(i)}$$

Expression 2 :  $5x + \frac{2}{3} \geq 3x + 1$

$$\Rightarrow 5x - 3x \geq 1 - \frac{2}{3}$$

$$\Rightarrow 2x \geq \frac{1}{3}$$

$$\Rightarrow x \geq \frac{1}{6} \text{ -----(ii)}$$

Combining inequalities (i) and (ii), we get :  $\frac{1}{6} \leq x < \frac{5}{3}$

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

$\Rightarrow$  Ans - (D)

**Question 94**

The sum of the ages of brother and sister at present is 21. Five years ago the product of their ages was 28. What is the age of the brother and the sister?

- A 9, 12
- B 6, 15
- C 7, 14
- D 8, 13

**Answer: A**

**Explanation:**

Let the age of brother =  $x$  years and sister's age =  $(21 - x)$  years

Product of their ages 5 years ago =  $(x - 5)(21 - x - 5) = 28$

$$\Rightarrow (x - 5)(16 - x) = 28$$

$$\Rightarrow 16x - x^2 - 80 + 5x = 28$$

$$\Rightarrow x^2 - 21x + 108 = 0$$

$$\Rightarrow x^2 - 9x - 12x + 108 = 0$$

$$\Rightarrow x(x - 9) - 12(x - 9) = 0$$

$$\Rightarrow (x - 12)(x - 9) = 0$$

$$\Rightarrow x = 12, 9$$

$\therefore$  Ages of brother and sister are 12 and 9

$\Rightarrow$  Ans - (A)

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

### Question 95

The solution set of  $4x - 3y = 47$  and  $3x + y = 32$  is

A  $\{(15, 3)\}$

B  $\{(4, 12)\}$

C  $\{(11, -1)\}$

D  $\{(12, 3)\}$

**Answer:** C

#### Explanation:

Equation 1 :  $4x - 3y = 47$

Equation 2 :  $3x + y = 32$

Multiplying equation (ii) by 3 and adding it to equation (i)

$$\Rightarrow (4x + 9x) + (-3y + 3y) = (47 + 96)$$

$$\Rightarrow 13x = 143$$

$$\Rightarrow x = \frac{143}{13} = 11$$

Substituting it in equation (ii),  $\Rightarrow y = 32 - 3(11) = 32 - 33 = -1$

$$\therefore (x, y) = (11, -1)$$

$\Rightarrow$  Ans - (C)

### Question 96

In a class of 55 students there are 34 girls. The average weight of these girls is 51 Kg and average weight of the full class is 55.2 kgs. What is the average weight of the boys of the class?

A 62

B 59.4

C 56.8

D 60

**Answer:** A

#### Explanation:

Total number of students = 55 and number of girls = 34

$$\Rightarrow \text{Number of boys in class} = 55 - 34 = 21$$

Average weight of girls = 51 kg

$$\Rightarrow \text{Total weight of girls} = 51 \times 34 = 1734 \text{ kg}$$

Similarly, total weight of full class =  $55.2 \times 55 = 3036 \text{ kg}$

$$\Rightarrow \text{Total weight of boys} = 3036 - 1734 = 1302 \text{ kg}$$

$\therefore$  Average weight of boys =  $\frac{1302}{21} = 62$  kg

=> Ans - (A)

**Question 97**

Refer the below data table and answer the following Question.

	Number of employees	Annual salary (in lakhs)	Bonus as percent of annual salary
<b>Manager</b>	3	54	40%
<b>Executive</b>	5	12	30%
<b>Trainee</b>	5	2	20%

What is the average bonus (in rupees)?

A 848000

B 226667

C 256000

D 652308

**Answer: D**

**Explanation:**

Total bonus of managers (in lakh) =  $3 \times 54 \times \frac{40}{100} = 64.8$  lakhs

Total bonus of executive (in lakh) =  $5 \times 12 \times \frac{30}{100} = 18$  lakhs

Total bonus of trainee (in lakh) =  $5 \times 2 \times \frac{20}{100} = 2$  lakhs

=> Average bonus in rupees =  $\frac{(64.8+18+2)}{(3+5+5)}$

=  $\frac{84.8}{13} = 6.52308$  lakhs = 6,52,308

=> Ans - (D)

## SSC CHSL Study Material

**Question 98**

Refer the below data table and answer the following Question.

	2011	2012	2013	2014	2015
<b>Company A</b>	1000	4000	5000	5000	5000
<b>Company B</b>	3000	5000	2000	5000	3000
<b>Company C</b>	1000	4000	4000	1000	1000

For which of the following pairs of years the total exports from the three Companies together are equal?

( Note: Figures given are in lakh rupees)

A 2011 & 2013

B 2013 & 2014

C 2011 & 2012

D 2014 & 2015

**Answer: B**

**Explanation:**

Total exports from the three companies together in :

$$2011 = 1000 + 3000 + 1000 = 5000$$

$$2012 = 4000 + 5000 + 4000 = 13000$$

$$2013 = 5000 + 2000 + 4000 = 11000$$

$$2014 = 5000 + 5000 + 1000 = 11000$$

$$2015 = 5000 + 3000 + 1000 = 9000$$

Clearly, total exports in 2013 and 2014 are equal to 11000

=> Ans - (B)

#### Question 99

Refer the below data table and answer the following Question.

Year	Profit or (-Loss) in Rs crore
2011	25
2012	-20
2013	20
2014	10
2015	10

What was the total Profit o loss of the company in last 5 years?

- A Profit of Rs 45 crores
- B Profit of Rs 55 crores
- C Loss of Rs 45 crores
- D Loss of Rs 55 crores

**Answer:** A

#### Explanation:

Total profit or loss in Rs. crore in last 5 years

$$= 25 - 20 + 20 + 10 + 10$$

$$= 45$$

Since, it is positive, thus profit of Rs. 45 crore

=> Ans - (A)

#### Question 100

Refer the below data table and answer the following Question.

India's Exports in 2015	Value in Million US\$
Jewellery	600
Software	675
Cotton	800
Steel	775
Electronics	525

Software was what percent of total exports?

- A 20 percent
- B 22.5 percent

C 25 percent

D 17.5 percent

**Answer: A**

**Explanation:**

Value in millions of Software = 675

Total exports = 600 + 675 + 800 + 775 + 525 = 3375

=> % of Software in total exports =  $\frac{675}{3375} \times 100$

=  $\frac{2700}{135} = 20\%$

=> Ans - (A)

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