



## **SSC CGL 2014 Tier 1 19 Oct shift 1**

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## Reasoning

### Instructions

For the following questions answer them individually

### Question 1

Which of the following interchange of signs would make the equation correct ?

$$8 \times 6 + 2 = 22$$

- A +, ×, 2 and 6
- B +, ×, 2 and 8
- C +, ×, 6 and 8
- D +, ×, 2 and 22

**Answer:** C

### Explanation:

Expression :  $8 \times 6 + 2 = 22$

(A) : +, ×, 2 and 6

$$\equiv 8 + 2 \times 6 = 22$$

L.H.S. =  $8 + 12 = 20 \neq$  R.H.S.

(B) : +, ×, 2 and 8

$$\equiv 2 + 6 \times 8 = 22$$

L.H.S. =  $2 + 48 = 50 \neq$  R.H.S.

(C) : +, ×, 6 and 8

$$\equiv 6 + 8 \times 2 = 22$$

L.H.S. =  $6 + 16 = 22 =$  R.H.S.

=> Ans - (C)

## SSC CGL Free Mock Test

### Question 2

If '-' stands for addition, '+' stands for subtraction, '÷' stands for multiplication and '×' stands for division, then which one of the following equation is correct ?

- A  $50 \times 5 \div 2 - 30 + 25 = 25$
- B  $50 - 30 + 5 \div 2 \times 30 = 25$
- C  $40 + 35 \times 2 - 50 \div 30 = 95$
- D  $30 \times 2 - 25 + 50 \div 5 = 100$

**Answer:** A

### Explanation:

(A) :  $50 \times 5 \div 2 - 30 + 25 = 25$

$$\equiv 50 \div 5 \times 2 + 30 - 25 = 25$$

L.H.S. =  $10 \times 2 + 5$

$$= 20 + 5 = 25 = \text{R.H.S.}$$

=> Ans - (A)

### Instructions

In each of the following questions, some equations are solved on the basis of certain system. Find out the correct answer for the unsolved equation on that basis.

### Question 3

$$2 \times 4 \times 6 = 4; 9 \times 3 \times 7 = 13;$$
$$4 \times 7 \times 6 = 3; 9 \times 7 \times 8 = ?$$

- A 10
- B 09
- C 08
- D 07

Answer: A

### Explanation:

The pattern followed is that all the numbers are added and twice of the middle number is subtracted from the sum to obtain final result.

$$\text{Eg : } 2 \times 4 \times 6 = (2 + 4 + 6) - (2 \times 4) = 12 - 8 = 4$$

$$\text{and } 9 \times 3 \times 7 = (9 + 3 + 7) - (2 \times 3) = 19 - 6 = 13$$

$$\text{and } 4 \times 7 \times 6 = (4 + 7 + 6) - (2 \times 7) = 17 - 14 = 3$$

$$\text{Similarly, } 9 \times 7 \times 8 = (9 + 7 + 8) - (2 \times 7) = 24 - 14 = 10$$

=> Ans - (A)

### Question 4

$$3 \times 5 \times 7 \times 2 = 24, 2 \times 4 \times 6 \times 8 = 22, 4 \times 4 \times 8 \times 9 = ?$$

- A 33
- B 25
- C 144
- D 1152

Answer: A

### Explanation:

The product of the first two numbers is added to the sum of last two numbers.

$$\text{Eg : } (3 \times 5) + (7 + 2) = 15 + 9 = 24$$

$$\text{and } (2 \times 4) + (6 + 8) = 8 + 14 = 22$$

$$\text{Similarly, } (4 \times 4) + (8 + 9) = 16 + 17 = 33$$

=> Ans - (A)

## SSC CGL Previous Papers (DOWNLOAD PDF)

### Instructions

In each of the following questions, select the missing number from the given responses:

Question 5

96	?	168
32	48	56
16	24	28

- A 52
- B 144
- C 64
- D 38

Answer: B

Explanation:

96	?	168
32	48	56
16	24	28

let the missing term be y

here , in 1st column ,

$$16 \times 2 = 32$$

$$32 \times 3 = 96$$

in 3rd column ,

$$28 \times 2 = 56$$

$$56 \times 3 = 168$$

so in 2nd column the same pattern is going to get followed

$$24 \times 2 = 48$$

$$48 \times 3 = 144$$

and hence  $y = 144$

Question 6

7	8	5
6	9	?
2	3	6
84	216	900

- A 90
- B 70
- C 65
- D 30

Answer: D

**Explanation:**

7	8	5
6	9	?
2	3	6
84	216	900

let the missing term be y

here in 1st column we can see that  $84 = 7 \times 6 \times 2$

in 2nd column we can see that  $216 = 8 \times 9 \times 3$

so in 3rd column the same thing is going to get followed ,

and hence  $900 = 5 \times y \times 6$

$y = 30$

**Question 7**

2	3	4	?
3	1	4	2
4	2	2	6
5	5	2	2
196	121	144	225

A 4

B 5

C 6

D 3

**Answer: B**

**Explanation:**

2	3	4	?
3	1	4	2
4	2	2	6
5	5	2	2
196	121	144	225

let the missing term be y

as we can see that on every column ,

$$196 = (2 + 3 + 4 + 5)^2$$

$$121 = (3 + 1 + 2 + 5)^2$$

$$144 = (4 + 4 + 2 + 2)^2$$

and hence this same pattern will follow in every column

$$\text{so , } 225 = (y + 2 + 6 + 2)^2$$

$y = 5$

## SSC CGL Tier-2 Previous Papers PDF

### Instructions

In each of the following questions, select the related word/letters/numbers from the given alternatives.

### Question 8

**SOCIAL : OCIALS :: DRIVEN : ?**

- A VENRID
- B NEVIRD
- C RIVEND
- D VIREND

**Answer: C**

### Explanation:

we are given that SOCIAL : OCIALS :: DRIVEN : ?

in SOCIAL : OCIALS , we can see that first alphabet is shifted to last

and hence the same thing will be done in 2nd case

and hence DRIVEN : **RIVEND**

### Question 9

$\frac{1}{8} : \frac{1}{64} :: \frac{1}{16} : ?$

- A 128
- B 126
- C 144
- D 132

**Answer: A**

### Explanation:

$$\frac{1}{8} : \frac{1}{64} = 8$$

let the missing number be y

$$\frac{1}{16} : y = 8$$

$$y = 128$$

### Question 10

**29 : 87 :: 79 : ?**

- A 120
- B 292
- C 237
- D 131

**Answer: C**

**Explanation:**

let the missing number be y

$$29 : 87 :: 79 : y$$

$$\frac{29}{87} = \frac{79}{y}$$

$$y = \frac{87 \times 79}{29}$$

$$y = 237$$

## SSC CGL Important Questions PDF

**Question 11**

**Embarrassed : Humiliated :: Frightened : ?**

- A Terrified
- B Agitated
- C Courageous
- D Reckless

**Answer:** A

**Explanation:**

Embarrassed and humiliated are synonyms, thus the word with similar meaning as frightened is terrified.

=> Ans - (A)

**Question 12**

**Macabre : Lovely : : Baneful : ?**

- A Unharmful
- B Churlish
- C Filter
- D Ugly

**Answer:** A

**Explanation:**

Macabre and lovely are antonyms, thus the word with opposite in meaning as baneful (harmful) is unharmful.

=> Ans - (A)

**Question 13**

**AYRRJC : CATTLE : : NCPDCAR : ?**

- A SUBJECT
- B NEGLECT
- C PERFECT
- D OPERATE

**Answer:** C

**Explanation:**

Expression = AYRRJC : CATTLE

The pattern followed is :

A	Y	R	R	J	C
(+2)	(+2)	(+2)	(+2)	(+2)	(+2)
C	A	T	T	L	E

Similarly, for NCPDCAR :

N	C	P	D	C	A	R
(+2)	(+2)	(+2)	(+2)	(+2)	(+2)	(+2)
P	E	R	F	E	C	T

=> Ans - (C)

## 1500 + Free Must Solved SSC Questions (With Solutions)

### Instructions

In each of following questions, find the odd word/number/letters/number pair from the given alternatives:

#### Question 14

- A Square
- B Trapezium
- C Cylinder
- D Parallelogram

**Answer:** C

#### Explanation:

Square, trapezium and parallelogram are 2 dimensional figure, hence cylinder which is a 3-D figure is the odd one.

=> Ans - (C)

#### Question 15

- A Yacht
- B Submarine
- C Boat
- D Ship

**Answer:** B

#### Explanation:

All except a submarine sail on the water, while a submarine is submerged into it, hence it is the odd one out.

=> Ans - (B)

#### Question 16

- A Autobiography
- B Malayalam
- C Intelligence
- D Dictionary



**Answer:** B

**Explanation:**

Malayalam is a language of Kerala, hence it is the odd one.

=> Ans - (B)

## General Science Notes for SSC CGL

**Question 17**

**A** MIGE

**B** XTQO

**C** RNKI

**D** HDAY

**Answer:** A

**Explanation:**

(A) : M (-4 letters) = I (-2 letters) = G (-2 letters) = E

(B) : X (-4 letters) = T (-3 letters) = Q (-2 letters) = O

(C) : R (-4 letters) = N (-3 letters) = K (-2 letters) = I

(D) : H (-4 letters) = D (-3 letters) = A (-2 letters) = Y

=> Ans - (A)

**Question 18**

**A** 42 : 4

**B** 48 : 6

**C** 32 : 2

**D** 15 : 5

**Answer:** A

**Explanation:**

All the numbers except 42 are completely divisible by the second number, hence 42 : 4 is the odd one out.

=> Ans - (A)

**Question 19**

**A** Year 2012

**B** Year 1998

**C** Year 2005

**D** Year 1997

**Answer:** A

**Explanation:**

Among all the given options, only year 2012 is a leap year, hence it is the odd one.

=> Ans - (A)

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

### Question 20

Arrange the following words as per order in the dictionary :

- I. Euphrasy
- II. Eupepsy
- III. Euphonic
- IV. Eugenic
- V. Euphony

- A** IV, III, II, I, V  
**B** III, IV, I, II, V  
**C** IV, II, III, V, I  
**D** III, V, II, IV, I

**Answer:** C

#### **Explanation:**

As per order in the dictionary :

= Eugenic -> Eupepsy -> Euphonic -> Euphony -> Euphrasy

≡ IV, II, III, V, I

=> Ans - (C)

### Question 21

Which one of the given responses would be a meaningful order of the following ?

- I. Absorption
- II. Digestion
- III. Nutrition
- IV. Excretion

- A** III, I, II, IV  
**B** II, I, III, IV  
**C** III, IV, II, I  
**D** III, II, I, IV

**Answer:** D

#### **Explanation:**

The process that happens internally in a body follows the order :

= Nutrition -> Digestion -> Absorption -> Excretion

≡ III, II, I, IV

=> Ans - (D)

#### **Instructions**

In each of the following questions, a series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.

### Question 22

0, ? , 8 27, 64, 125

- A 5
- B 4
- C 2
- D 1

**Answer:** D

**Explanation:**

here the given pattern is 0, ?, 8, 27, 64, 125

let the missing term be y

as we can see that every pattern is a cube of consecutive whole number starting from 0

$$0 = 0^3$$

$$8 = 2^3$$

$$64 = 4^3$$

$$125 = 5^3$$

so the missing term is ,  $y = 1^3 = 1$

## SSC Exam Free Videos (Youtube)

**Question 23**

**BMX, DNW, FOV, ? .**

- A GHO
- B GPS
- C HPS
- D HPU

**Answer:** D

**Explanation:**

here the given series is BMX, DNW, FOV, ?

as we can see that 1st alphabet of every term in series is alternative element starting from B

2nd alphabet of every term series is consecutive alphabets starting from M and 3rd alphabet in every term in the series is retracing back every consecutive alphabet starting from X

and hence the missing pattern is HPU

**Question 24**

**655, 637, 622, 610, 601, ?**

- A 598
- B 595
- C 596
- D 597

**Answer:** B

**Explanation:**

Let the missing number be  $x$ .

The difference between every two consecutive numbers is forming a pattern.

$$655 - 637 = 18$$

$$637 - 622 = 15$$

$$622 - 610 = 12$$

$$610 - 601 = 9$$

As the difference is getting reduced by 3 every time. So  $601 - x = 6$  which implies that the missing number,  $x = 595$

**Question 25**

1, 5, 25, 125, ?, ?, ?

A 245, 485, 965

B 225, 325, 425

C 625, 3225, 15605

D 625, 3125, 15625

**Answer:** D

**Explanation:**

we have been given a series as 1, 5, 25, 125, ?, ?, ?

here we can see that every term is a power of 5

$$1 = 5^0$$

$$5 = 5^1$$

$$25 = 5^2$$

$$125 = 5^3$$

so the next term will also be power of 5 and the terms are  $5^4, 5^5, 5^6$  i.e 625, 3125, 15625

## SSC Free Preparation App

**Instructions**

For the following questions answer them individually

**Question 26**

In a class composed of  $x$  girls  $y$  boys what part of the class is composed of girls ?

A  $y(x + y)$

B  $x/xy$

C  $x/(x + y)$

D  $y/xy$

**Answer:** C

**Explanation:**

No. of girls in class =  $x$ .

No. of boys in class =  $y$ .

Part of the class is composed of girls =  $\frac{\text{No. of girls}}{\text{No. of students}}$ .

$$= \frac{\text{No. of girls}}{\text{No. of girls} + \text{No. of boys}}$$

$$= \frac{x}{x+y}$$

Hence, Option C is correct.

### Question 27

If a number is greater than 5 but less than 9 and greater than 7 but less than 11, the number is

- A 5
- B 6
- C 7
- D 8

**Answer:** D

#### **Explanation:**

Let no. be 'x'.

According to question,

$$5 < x < 9.$$

$$7 < x < 11.$$

From above inequalities,

$$7 < x < 9.$$

Only 8 is number satisfying above inequality,

$$x = 8.$$

Hence, Option D is the correct answer.

### Question 28

In a row, 25 trees are planted at equal distance from each other. The distance between 1st and 25th tree is 30 m. What is the distance between 3rd and 15th tree?

- A 8m
- B 15m
- C 16m
- D 18m

**Answer:** B

#### **Explanation:**

Let distance between two consecutive trees be 'x' m.

Distance between 1st and 25th tree =  $24x$ .

According to question,  $24x = 30$ .

$$x = 1.25 \text{ m.}$$

Distance between 3rd and 15th tree =  $12x$ .

$$= 12 \times 1.25.$$

$$= 15 \text{ m.}$$

Hence, Option B is correct.

## Daily Free SSC Practice Set

### Instructions

In each of the following questions, from the given alternative words, select the word which can be formed using the letters of the given word :

**Question 29**

**INSTITUTIONALISE**

- A NUTRITION
- B INTUTION
- C TUITION
- D INSULATION

**Answer:** A

**Explanation:**

The word INSTITUTIONALISE does not contain any 'R', hence the word 'Nutrition' cannot be formed.

=> Ans - (A)

**Question 30**

**STIMULATION**

- A STATION
- B NATION
- C MOTION
- D MOUTH

**Answer:** A

**Explanation:**

The word STIMULATION does not contain 2 N's, or 2 O's or any H, hence the last three words cannot be formed.

Only word that can be formed : Station

=> Ans - (A)

**Instructions**

For the following questions answer them individually

**Question 31**

**In a certain code, TRIPPLE is written as SQHOOKD. How is DISPOSE written in that code?**

- A CHRONRD
- B DSOESPI
- C ESJTPTE
- D ESOPSID

**Answer:** A

**Explanation:**

TRIPPLE is written as SQHOOKD

The pattern followed is :

T	R	I	P	P	L	E
(-1)	(-1)	(-1)	(-1)	(-1)	(-1)	(-1)
S	Q	H	O	O	K	D

Similarly, for DISPOSE :

D	I	S	P	O	S	E
(-1)	(-1)	(-1)	(-1)	(-1)	(-1)	(-1)
C	H	R	O	N	R	D

=> Ans - (A)

## SSC CGL Free Online Coaching

### Question 32

Which letter in the word 'Vertex' should be changed to mean spiral movement ?

- A 1st
- B 2nd
- C 4th
- D Last

**Answer:** B

#### Explanation:

Vortex means spiral movement. Thus, 2nd letter in the word 'Vertex', i.e., 'e' is changed to 'o'.

=> Ans - (B)

### Question 33

If TRANSFER is coded as RTNAFSRE, then how ELEPHANT be coded in that code language ?

- A LEPEHATN
- B LEPEAHTN
- C LEEPAHTN
- D LEPEAIINT

**Answer:** B

#### Explanation:

Given : TRANSFER is coded as RTNAFSRE

The pattern is that in groups of 2 letters (from either side), both letters are swapped.

Eg = TR : RT , AN : NA , SF : FS , ER : RE

Similarly, for EL EP HA NT : LE PE AH TN

Thus, ELEPHANT is written as LEPEAHTN

=> Ans - (B)

### Question 34

If MONKO is coded as 57637, then how KLJMN be coded in the same code ?

- A 32456
- B 34256
- C 35156
- D 32546

**Answer:** B

**Explanation:**

Given : MONKO is coded as 57637

Thus, I = 1 , J = 2 , K = 3 , L = 4 , M = 5 and so on.

Similarly, KLJMN = 34256

=> Ans - (B)

## SSC CHSL Previous Question papers (download pdf)

**Question 35**

**Statement is given followed by two inferences I and II. You have to consider the statement to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given inferences, if any, follow from the given statement.**

**Statement :** "Electric supply in Anand Colony will be cut tomorrow after 12 O'clock for three hours because repairing work will be carried out."

**Inferences :**

- I. Residents of Anand Colony may use their electrical appliances before 12 O'clock tomorrow.**
- II. Residents of Anand Colony need training for using electricity economically.**

- A** Only inference I follows
- B** Only inference II follows
- C** Both the inferences follow
- D** None of the inferences follows

**Answer:** A

**Explanation:**

The given statement is a notice for the residents of Anand Colony to inform them about the electricity cut so that they use their electric appliances before 12 o'clock. The statement has no reference to whether or not the residents are using electricity economically.

Hence, only inference I follows.

=> Ans - (A)

**Question 36**

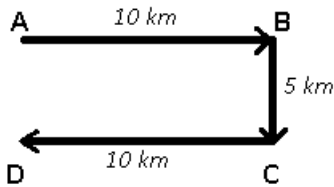
**Anand travels 10 kms from his home to the east to reach his school. Then he travels 5 kms to the south to reach his father's shop, after school. He then travels 10 kms to the west to help his uncle. How far and in which direction is he from his home ?**

- A** 10 kms North
- B** 5 kms South
- C** 5 kms East
- D** 10 kms West

**Answer:** B

**Explanation:**





Let Anand started from point A and travelled east for 10 km to reach his school at B, then travelled south for 5 km to reach his father's shop at C, finally travelled west for 10 km to stop at point D.

Thus,  $AD = 5 \text{ km}$

$\therefore$  Anand is 5 km to the south of his home.

$\Rightarrow$  Ans - (B)

### Question 37

Four villages A, B, C and D lie in a straight line. D is 10 kms from B. A is exactly Between D and C and C from B is 2 kms more than it is from D. How far is C from B ?

- A 41cms
- B 6 kms
- C 8 kms
- D 2 kms

**Answer:** B

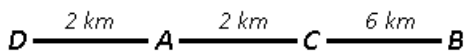
### Explanation:

Distance between D and B = 10 km

C from B is 2 km more than it is from D, that means  $DC = 4 \text{ km}$  and  $CB = 6 \text{ km}$

A is exactly between D and C i.e.  $AD = 2 \text{ km}$  and  $AC = 2 \text{ km}$

Following figure represents all the above conclusions.



Hence  $CB = 6 \text{ km}$

$\Rightarrow$  Ans - (B)

## SSC CPO Previous Question papers (download pdf)

### Question 38

Select the alternative inference which is most appropriate. "All professors are learned; learned people are always gentle."

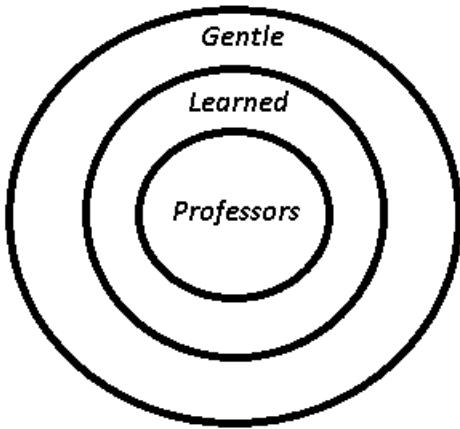
**Inference : All professors are gentle persons.**

- A The inference is true.
- B The inference is false.
- C The inference is probably true or probably false.
- D The inference is irrelevant.

**Answer:** A

### Explanation:

The venn diagram for above statements is :



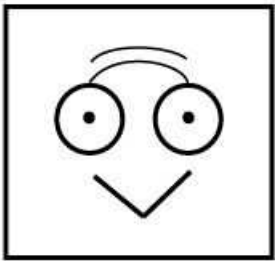
Inference : All professors are gentle persons = true

=> Ans - (A)

**Instructions**

In each of the following questions, among four answer figures whose cut pieces can form the given question figure?

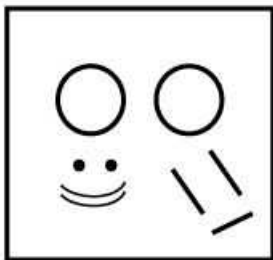
**Question 39**



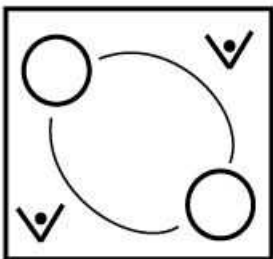
A

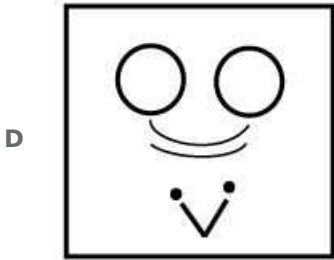


B



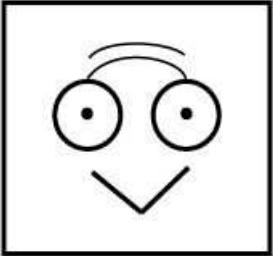
C





Answer: D

Explanation:

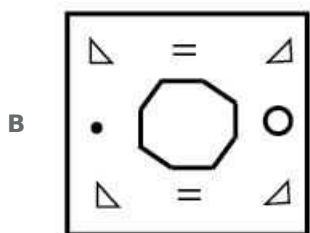
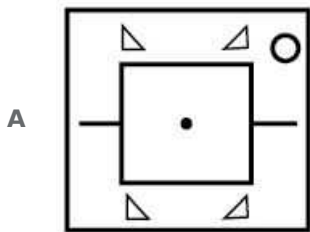
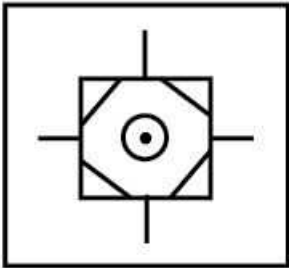


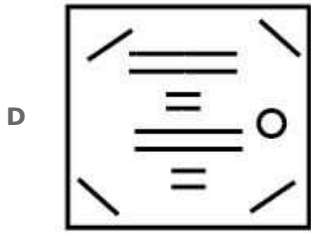
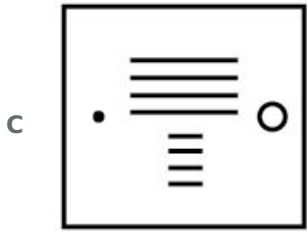
By removing dots from circles and placing them above the straight lines, we can get figure in Option D.



Hence, Option D is correct.

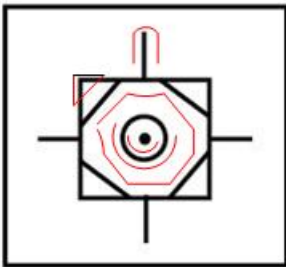
Question 40



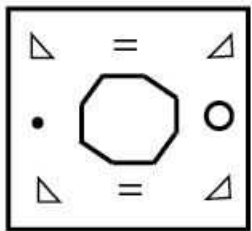


Answer: B

Explanation:



From above we can get parts as-



Hence, Option B is correct.

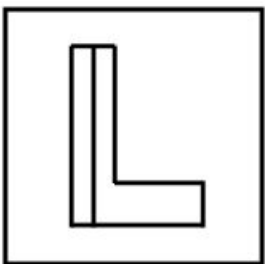
## SSC GD Previous Question papers (download pdf)

### Instructions

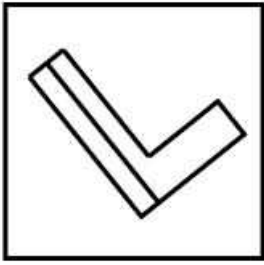
For the following questions answer them individually

### Question 41

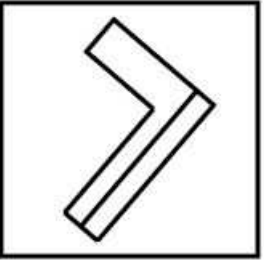
Which of the following answer figures cannot occur when the question figure given below is rotated ?



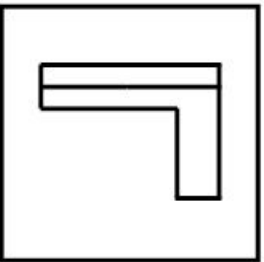
A



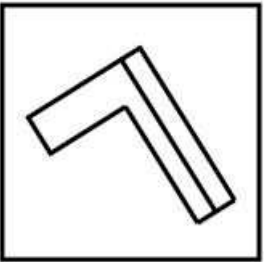
B



C

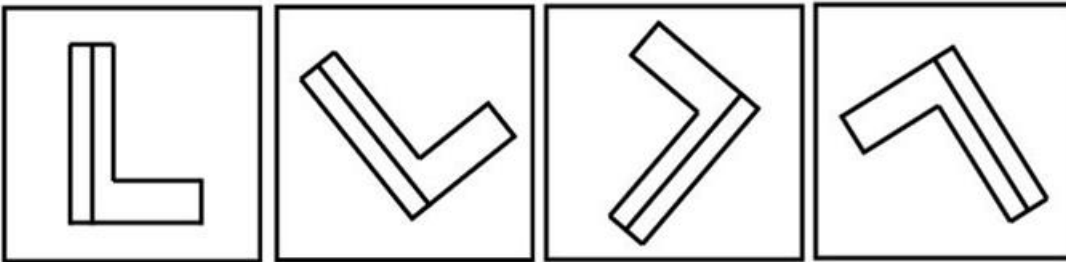


D



Answer: C

Explanation:



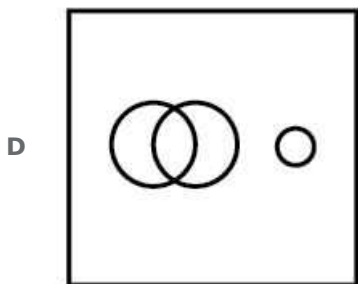
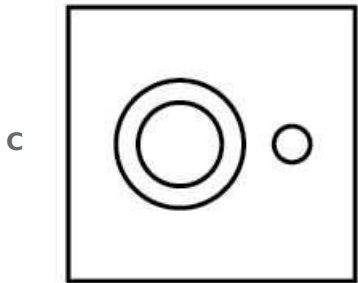
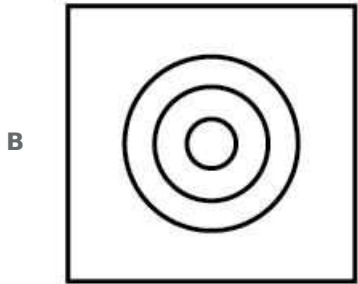
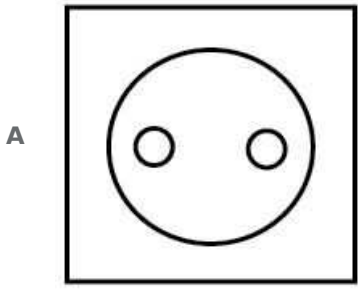
Option A,B,D can be made by rotating the figure in anti-clockwise direction.  
Option C is formed by flipping the figure and then rotating.  
Hence, Option C is the correct answer.

Instructions

In each of the following questions, which of the following Venn diagrams best represents relation between given classes ?

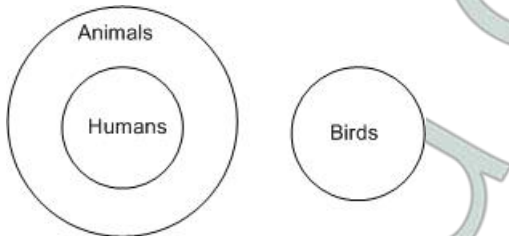
Question 42

Humans, Birds, Animals



**Answer: C**

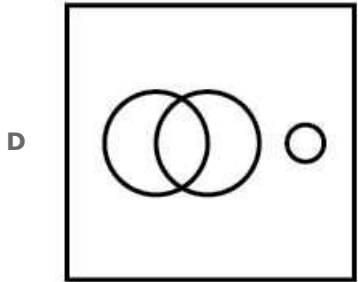
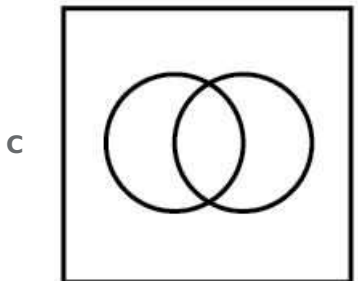
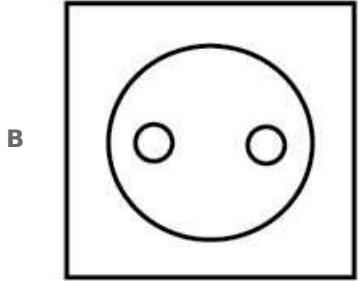
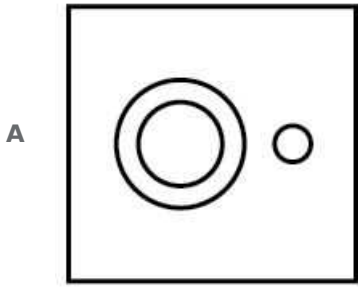
**Explanation:**



Since, all humans are animals but birds belong to different class, Therefore, Option C is correct.

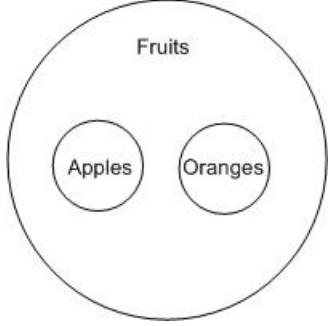
**Question 43**

**Fruits, Apples, Oranges**



Answer: B

Explanation:



Since, Apples and Oranges are both fruits.  
Hence, Options B is correct.

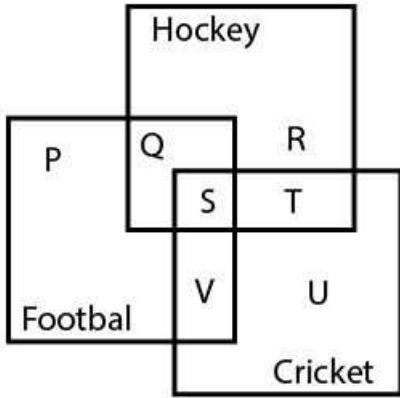
## SSC MTS Previous Question papers (download pdf)

### Instructions

For the following questions answer them individually

**Question 44**

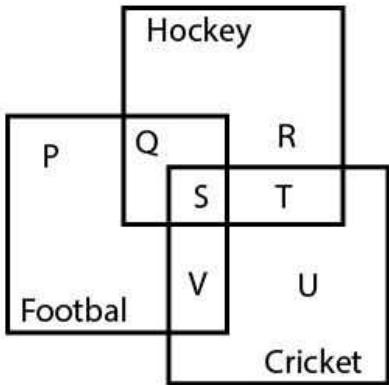
In the diagram given below which letter (s) represents the students who play Cricket as well as Football and Hockey ?



- A S + T + U
- B V
- C S
- D P + R + U

**Answer:** C

**Explanation:**



According to the figure, Person, who plays cricket as well as Hockey and Football has to be the one which is common to all 3 categories in the figure.

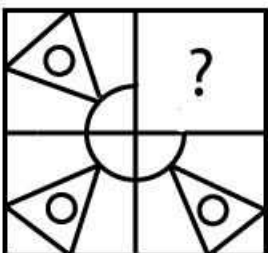
From the figure, it is clear that 'S' is the only such person.

Hence, Option C is correct.

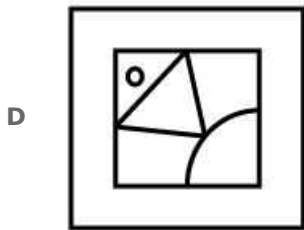
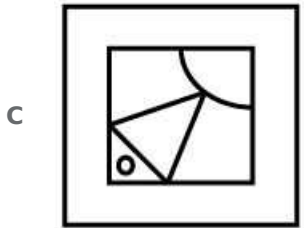
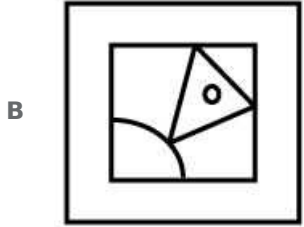
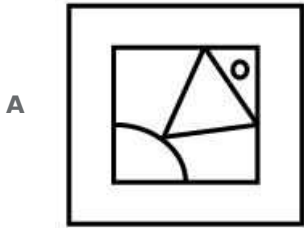
**Instructions**

In each of the following questions, which answer figure will complete the pattern in the question figure?

**Question 45**

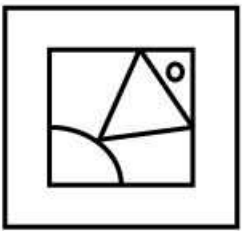




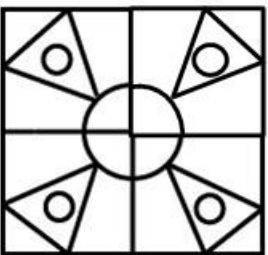


**Answer: A**

**Explanation:**

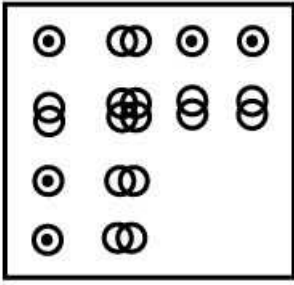


fits the figure.

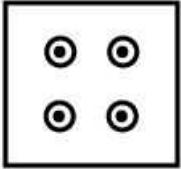


Hence, Option A is correct.

Question 46



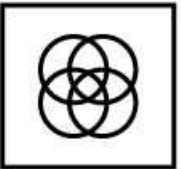
A



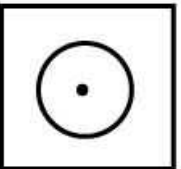
B



C



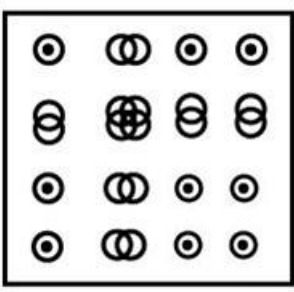
D



Answer: A

**Explanation:**

Question figure has series of circle which gets merge in second row and second column. Hence the figure that will complete the given image must have 4 circles which is option A.



Hence, Option A is correct.

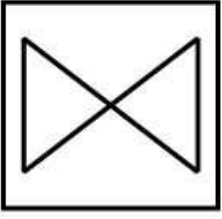
**SSC Stenographer Previous Question papers (download pdf)**

**Instructions**

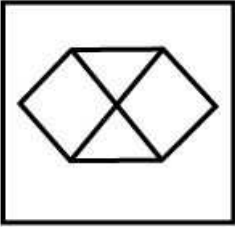
For the following questions answer them individually

Question 47

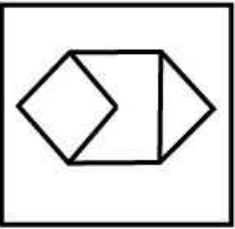
From the given answer figures, select the one in which the question figure is hidden/embedded.



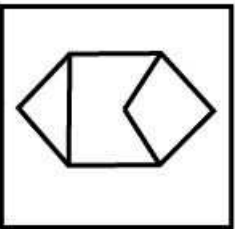
A



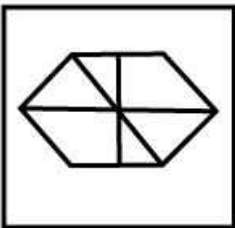
B



C

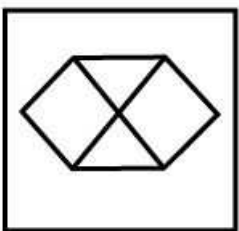


D

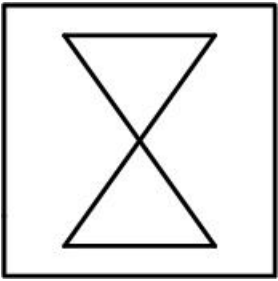


Answer: A

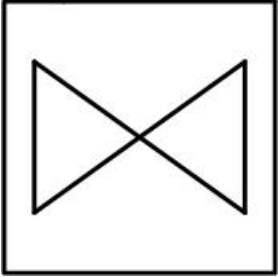
Explanation:



Remove side edges from above figures.



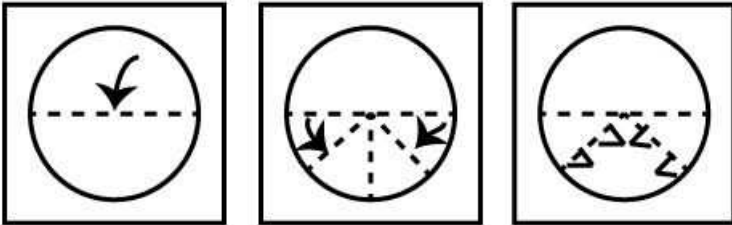
Rotate above figure by 90 degree.



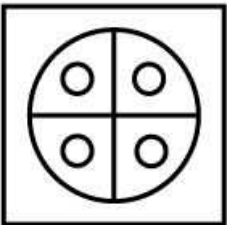
Hence, Option A is correct.

**Question 48**

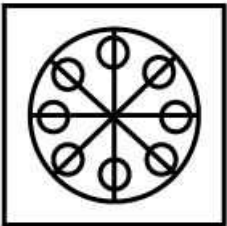
A piece of paper is folded and cut as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.



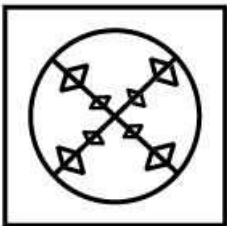
A



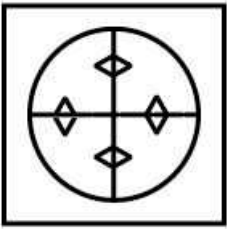
B



C



D



Answer: C

**Explanation:**

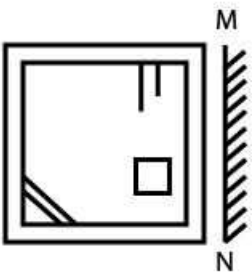
By paper folding and cutting according to questions, we get figure as-



Hence, Option C is correct.

**Question 49**

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



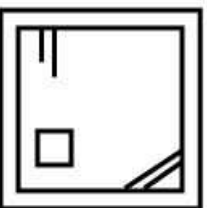
A



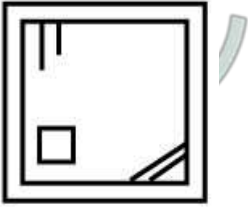
B



C



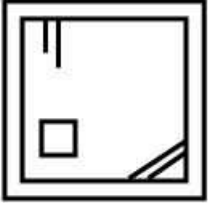
D



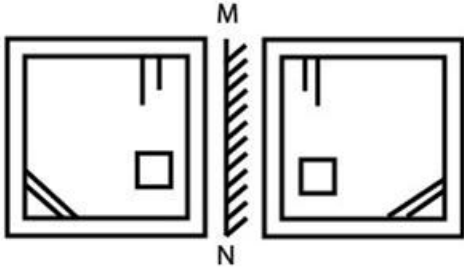
Answer: C

**Explanation:**

A mirror image in a plane mirror is a reflection of an object that appears almost identical but is reversed in the direction perpendicular to the mirror surface.



Option C fits as the mirror image perfectly.



Hence, Option C is correct.

**SSC CHSL Free Mock Test**

**Question 50**

A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and 2 to 6 respectively and that of Matrix II are numbered from 2 to 6 and 7 to 0 respectively. A letter from these matrices can be represented first by its row and next by its column, e.g., 'H' can be represented by 04, 25, 32, etc., and 'N' can be represented by 21, 40, 59, etc. Similarly, you have to identify the set for the word given below  
**YEAR**

**MATRIX I**

	2	3	4	5	6
0	Y	A	H	M	J
1	M	J	H	A	Y
2	A	Y	J	H	M
3	H	J	Y	M	A
4	J	M	A	Y	H

**MATRIX II**

	7	8	9	1	0
2	E	R	V	N	O
3	V	N	O	E	R
4	O	E	R	V	N
5	R	V	N	O	E
6	N	O	E	R	V

- A** 23, 27, 15, 61
- B** 16, 38, 15, 30
- C** 34, 31, 32, 28
- D** 45, 50, 36, 29

**Answer:** A

**Explanation:**

From matrix I and matrix II,  
23=Y.  
27=E.  
15=A.  
61=R.  
Hence, Option A is correct.

**SSC MTS Free Mock Test**

**General Awareness**

**Instructions**

For the following questions answer them individually

**Question 51**

**'There are no politics devoid of religion' is stated by**

- A** Nehru

- B** Gandhi
- C** Vinoba Bhave
- D** Jaya Prakash Narayan

**Answer:** B

## SSC CPO Free Mock Test

### Question 52

In which Rock Edict Ashoka mentions about the casualties of Kalinga War and declares the renunciation of war ?

- A** Maski Edict
- B** Rock Edict XIII
- C** Rock Edict XI
- D** Rock Edict X

**Answer:** B

### Question 53

Akbar held his religious discussion in

- A** Jodhabai's Palace
- B** Panch Mahal
- C** Ibadat Khana
- D** Buland Darwaza

**Answer:** C

### Question 54

Who succeeded Guru Nanak ?

- A** Guru Angad
- B** Guru Ramdas
- C** Guru Arlan
- D** Guru Hargobind

**Answer:** A

## SSC GD Free Mock Test

### Question 55

The Earliest Settlements of Aryan tribes were at

- A** Uttar Pradesh



- B Bengal
- C Sapta Sindhu
- D Delhi

**Answer:** C

**Question 56**

**Who said, "Adolf Hitler is Germany and Germany is Adolf Hitler. He who pledges himself to Hitler pledges himself to Germany" ?**

- A R. Hess
- B Mussolini
- C Hitler
- D Communist International

**Answer:** A

**Question 57**

**Who speaks of Cabinet system as the steering wheel of the ship of state" ?**

- A Lowell
- B Muir
- C Marriot
- D Bagehot

**Answer:** B

## SSC Stenographer Free Mock Test

**Question 58**

**Who has called the Prime Minister Primus inter pares (first among equals) ?**

- A Morely
- B Harcourt
- C Laski
- D Lowell

**Answer:** A

**Question 59**

**What is farming along with animal husbandry called ?**

- A Mixed farming
- B Mixed agriculture
- C Dairy farming

**D** Truck farming

**Answer:** A

**Question 60**

**Hydraulic Action is a type of erosion caused by**

**A** Running water

**B** Wind

**C** Glacier

**D** None of these

**Answer:** A

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**Question 61**

**Which is the newest geological era ?**

**A** Permian

**B** Triassic

**C** Cretaceous

**D** Jurassic

**Answer:** C

**Question 62**

**The plant from which cocoa and chocolate are obtained is a**

**A** herb

**B** shrub

**C** small tree

**D** very big tree

**Answer:** B

**Question 63**

**The biggest single-celled organism is**

**A** Yeast

**B** Acetabularia

**C** Acetobacter

**D** Amoeba

**Answer:** D

## Download SSC General Knowledge PDF

### Question 64

Crescograph was invented by

- A S.N. Bose
- B P.C. Roy
- C J.C. Bose
- D P.C. Mahalanobis

**Answer:** C

### Question 65

Foramen Magnum is an aperture found in the

- A Ear
- B Lung
- C Girdle
- D Skull

**Answer:** D

### Question 66

Who betrayed Siraf-ud-Daula in the Battle of Plassey in 1757 ?

- A Hyder Ali
- B Mir Qasim
- C Mir Jaffar
- D Nawab of Oudh

**Answer:** C

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### Question 67

'Kelp' is

- A Sulphide mineral of iron
- B Partially decomposed vege- 76. tatlon
- C Sea weed rich in iodine content
- D An aluminium silicate mineral

**Answer:** C

**Question 68**

**Spot the odd item in the following :**

- A Basalt
- B Ruby
- C Emerald
- D Sapphire

**Answer:** A

**Question 69**

**Light from the Sun reaches us in nearly**

- A 8 min
- B 2 min
- C 6 min
- D 4 min

**Answer:** A

**Daily Current Affairs PDF for SSC**

**Question 70**

**Radar is used to**

- A locate submerged submarines.
- B receive signal from radio receivers.
- C detect and locate distant objects.
- D locate geostationary satellites.

**Answer:** C

**Question 71**

**Optical fibre works on the principle of**

- A refraction
- B scattering
- C interference
- D total internal reflection

**Answer:** D

**Question 72**

**Which application in Microsoft Office is feasible for preparing presentations ?**

- A Microsoft Excel
- B Microsoft Word
- C Microsoft Power Point
- D Microsoft Publishers

**Answer:** C

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### Question 73

The language which was used to build Internet Pages in the beginning of Internet Technology is

- A XML
- B HTML
- C DHTML
- D ASP

**Answer:** B

### Question 74

Name the branch of Zoology that deals with the scientific study of animal behaviour.

- A Ecology
- B Physiology
- C Ethology
- D Anatomy

**Answer:** C

### Question 75

'Barr body' is found in

- A Sperm
- B Sertoli cells
- C Female somatic cells
- D Male somatic cells

**Answer:** C

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### Question 76

The colours of stars depend on their

- A temperature
- B distance
- C radius
- D atmospheric pressure

**Answer:** A

**Question 77**

**Which source has been particularly fruitful in finding novel anti-tumour agents such as bryostannins and dolostatin ?**

- A Marine sources
- B Animals
- C Venoms and toxins
- D Combinatorial chemistry

**Answer:** A

**Question 78**

**The pollutant responsible for ozone holes is.....**

- A CO<sub>2</sub>
- B SO<sub>2</sub>
- C CO
- D CFC

**Answer:** D

## SSC CGL Free Mock Test

**Question 79**

**One of the best solutions to get rid of non-biodegradable wastes is**

- A Burning
- B Dumping
- C Burying
- D Recycling

**Answer:** D

**Question 80**

**Vermicomposting is done by**

- A Fungus

- B** Bacteria
- C** Worms
- D** Animals

**Answer: C**

**Question 81**

**If waste materials contaminate the source of drinking water, which disease will spread ?**

- A** Scurvy
- B** Typhoid
- C** Malaria
- D** Anaemia

**Answer: B**

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

**Question 82**

**India exports power to which country?**

- A** Bangladesh
- B** Myanmar
- C** Pakistan
- D** Bhutan

**Answer: A**

**Question 83**

**The alkaloid naturally found in coffee, cocoa and cola nut is**

- A** Cocaine
- B** Morphine
- C** Tannin
- D** Caffeine

**Answer: D**

**Question 84**

**The metal used for making air-crafts and rockets is**

- A** Lead
- B** Aluminium
- C** Nickel

D Copper

**Answer: C**

## SSC CGL Tier-2 Previous Papers PDF

### Question 85

The process of improving the quality of rubber by heating it with sulphur is called.

A Vulcanization

B Acceleration

C Sulphonation

D Galvanization

**Answer: A**

### Question 86

Which State is the largest producer of pulses in India ?

A Bihar

B Rajasthan

C Madhya Pradesh

D Maharashtra

**Answer: C**

### Question 87

In India, woman had never been a Chief Minister in the State of

A Tamil Nadu

B Rajasthan

C Uttar Pradesh

D Maharashtra

**Answer: D**

## SSC CGL Important Questions PDF

### Question 88

Which of the following is not a noble gas ?

A Hydrogen

B Helium

C Neon

D Argon



**Answer: A**

**Question 89**

**Sunda Trench is in**

- A** Indian Ocean
- B** Pacific Ocean
- C** Atlantic Ocean
- D** Gulf of Mexico

**Answer: A**

**Question 90**

**Which of the following is an organic rock ?**

- A** Marble
- B** Coal
- C** Granite
- D** Slate

**Answer: B**

## **1500 + Free Must Solved SSC Questions (With Solutions)**

**Question 91**

**Who among the following has written the famous book "Malgudi Days" ?**

- A** V.S. Naipaul
- B** Deepak Chopra
- C** Rabindranath Tagore
- D** R.K. Narayan

**Answer: D**

**Question 92**

**British Crown assumed sovereignty over India from the East India Company in the year**

- A** 1857
- B** 1858
- C** 1859
- D** 1860

**Answer: B**

**Question 93**

**Which vein brings clean blood from the lungs into the heart ?**

- A** Renal Vein
- B** Pulmonary Vein
- C** Vena Cava
- D** Hepatic Vein

**Answer:** B

## General Science Notes for SSC CGL

**Question 94**

**The first woman President of Indian National congress was**

- A** Kamala Devi Chattopadhyaya
- B** Sarojini Naidu
- C** Annie Besant
- D** Rajkumari Amrit Kaur

**Answer:** C

**Question 95**

**Average propensity to consume is defined as**

- A**  $\text{Aggregate consumption} + \text{Total population}$
- B**  $\text{Aggregate income} + \text{Aggregate consumption}$
- C**  $\text{Change in consumption} + \text{Change in income}$
- D**  $\text{Aggregate consumption} \div \text{Aggregate income}$

**Answer:** D

**Question 96**

**In short run, if a competitive firm incurs losses, it will**

- A** stop production.
- B** continue to produce as long as it can cover its variable costs.
- C** raise price of its product.
- D** go for advertising campaign.

**Answer:** A

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

**Question 97**

**Which one of the following is the specific feature of the single member constituency system ?**

- A The system is economical for representatives.
- B Gerrymandering is not possible in this system.
- C It secures a stable majority in the legislature.
- D The candidate has to spend less on electioneering.

**Answer: C**

**Question 98**

**Which of the following relations always holds true ?**

- A  $\text{Income} = \text{Consumption} + \text{Investment}$
- B  $\text{Income} = \text{Consumption} + \text{Saving}$
- C  $\text{Saving} = \text{Investment}$
- D  $\text{Income} = \text{Consumption} + \text{Saving} + \text{Investment}$

**Answer: B**

**Question 99**

**The Keynesian consumption function shows a relation between**

- A aggregate consumption and total population.
- B aggregate consumption and general price level.
- C aggregate consumption and aggregate income
- D aggregate consumption and interest rate

**Answer: C**

**SSC Exam Free Videos (Youtube)**

**Question 100**

**Over short period, when income rises, average propensity to consume usually**

- A rises
- B falls
- C remains constant
- D fluctuates

**Answer: B**

**SSC Free Preparation App**

## Quant

### Instructions

For the following questions answer them individually

### Question 101

A plate was sold for Rs.6,300 after giving two successive discounts of  $12\frac{1}{2}\%$  and 10%. Find the marked price.

- A 7,300
- B 7,700
- C 8,000
- D 7,250

**Answer:** C

### Explanation:

Let M.P. =  $100x$

First discount of  $12.5\% \Rightarrow \frac{12.5}{100} * 100x = 12.5x$

$\Rightarrow$  Amount after first discount =  $100x - 12.5x = 87.5x$

Second discount of  $10\% \Rightarrow \frac{10}{100} * 87.5x = 8.75x$

$\Rightarrow$  Amount after second discount =  $87.5x - 8.75x = 78.75x$

Now, S.P. =  $78.75x = 6300$

$\Rightarrow x = 80$

$\Rightarrow$  M.P. =  $80 * 100 = 8000$

## Daily Free SSC Practice Set

### Question 102

To attract more visitors, Zoo authority announces 20% discount on every ticket which costs 25 paise. For this reason, sale of ticket increases by 28%. Find the percentage of increase in the number of visitors.

- A 40%
- B 50%
- C 60%
- D No change

**Answer:** C

### Explanation:

Let total number of visitors = 100

Original revenue =  $25p * 100 = 2500p$

Discounted price =  $\frac{20}{100} * 25p = 5p$

$\Rightarrow$  New price =  $25p - 5p = 20p$

Increase in sale =  $28\% = \frac{28}{100} * 2500p = 700p$

$\Rightarrow$  New revenue =  $2500p + 700p = 3200p$

=> No. of visitors will be =  $3200p/20p = 160$

=> % increase in visitors =  $\frac{160-100}{100} * 100 = 60\%$

### Question 103

Which of the following represents a correct proportion ?

- A 12 : 9 = 16 : 12
- B 13 : 11 = 5 : 4
- C 30 : 45 = 13 : 24
- D 6 : 10 = 4 : 10

**Answer:** A

#### Explanation:

Checking option 1 )

12 : 9 = 4 : 3, 16 : 12 = 4 : 3

Checking option 2)

13 : 11 = 13 : 11, 5 : 4 = 5 : 4

checking option 3)

30 : 45 = 2 : 3, 26 : 24 = 13 : 12

Checking option 4)

6 : 10 = 3 : 5, 4 : 10 = 2 : 5

So option A is correct

### Question 104

A sphere is cut into two hemispheres. One of them is used as bowl. It takes 8 bowlfuls of this to fill a conical vessel of height 12 cm and radius 6 cm. The radius of the sphere (in centimetre) will be

- A 3
- B 2
- C 4
- D 6

**Answer:** A

#### Explanation:

Height of cone = 12 cm and radius of cone = 6 cm

Let radius of hemisphere (or sphere) =  $r$  cm

Now, 8 \* volume of hemisphere = volume of cone

$$\Rightarrow 8 * \frac{2}{3} \pi r^3 = \frac{1}{3} \pi * 6^2 * 12$$

$$\Rightarrow r^3 = \frac{36 * 12}{16}$$

$$\Rightarrow r = \sqrt[3]{27} = 3 \text{ cm}$$

### Question 105

The perimeters of a circle, a square and an equilateral triangle are same and their areas are C, S and T respectively. Which of the following statement is true ?

- A  $C = S = T$
- B  $C > S > T$
- C  $C < S < T$
- D  $S < C < T$

**Answer:** B

#### Explanation:

Let the side of equilateral triangle be 'a' units

the radius of circle be 'r' units.

and the side of square be 'b' units

Then,

Perimeter of square =  $4b$

Perimeter of equilateral triangle =  $3a$

Circumference of circle =  $2 * \pi * r$

Then acc to ques,

$$\Rightarrow 4b = 3a = 2 * \pi * r$$

$$\Rightarrow b = \frac{\pi * r}{2}$$

$$\Rightarrow a = \frac{2}{3} * \pi * r$$

Now,

$$\text{area of circle (C)} = \pi r^2$$

$$\text{area of equilateral triangle (T)} = \frac{\sqrt{3}}{4} * a^2$$

$$\Rightarrow \text{area of equilateral triangle (T)} = \frac{\pi^2 * r^2}{3 * \sqrt{3}}$$

$$\text{area of square (S)} = b * b$$

$$\Rightarrow \text{area of square (S)} = \frac{\pi^2 * r^2}{4}$$

Hence it is clearly visible that  $C > S > T$ .

### Question 106

The list price of a shirt is 440 and a customer pays 396 for it. The discount rate is

- A 10%
- B  $10\frac{1}{2}$  %
- C 20%
- D 12%

**Answer:** A

#### Explanation:

List price = 440

S.P. = 396

$$\begin{aligned} \Rightarrow \text{Discount \%} &= \frac{440-396}{440} * 100 \\ &= \frac{44}{440} * 100 = 10\% \end{aligned}$$

**Question 107**

**Nisha bought a number of oranges at 2 for a rupee and an equal number at 3 for a rupee. To make a profit of 20% she should sell a dozen for**

- A 6
- B 8
- C 10
- D 12

**Answer:** A

**Explanation:**

Let she bought 60 oranges of each type

Cost price of first type of oranges = 0.5 [ 1/2]

$$\Rightarrow \text{Total cost price of type 1} = 0.5 * 60 = 30$$

Similarly, total cost price of type 2 =  $\frac{1}{3} * 60 = 20$

$$\Rightarrow \text{C.P.} = 30 + 20 = 50$$

$$\text{Profit} = \frac{20}{100} * 50 = 10$$

$$\Rightarrow \text{Total S.P.} = 50 + 10 = 60$$

Now, this selling price is for 120 oranges

$$\text{For 12 oranges, S.P.} = 12 * \frac{60}{120} = 6$$

## SSC CHSL Previous Question papers (download pdf)

**Question 108**

**If A's salary is 50% more than that of B, then B's salary is less than A's by**

- A 33 %
- B  $40\frac{1}{3}$  %
- C  $45\frac{1}{3}$  %
- D  $33\frac{1}{3}$  %

**Answer:** D

**Explanation:**

Let assume that salary of B = Rs 100

As it is mentioned that salary of A is 50% more than B .So, A's salary =  $(100 + \frac{50}{100} * 100) = \text{Rs } 150$

Now B's salary is less than A's salary by =  $\frac{150-100}{150} * 100 = 33\frac{1}{3}$  %

**Question 109**

**A and B are 20 km apart. A can walk at an average speed of 4 km/hour and B at 6 km/ hr. If they start walking towards each other at 7 a.m., when will they meet ?**

- A 8.00 a.m.
- B 8.30 a.m.
- C 9.00 a.m.
- D 10.00 a.m.

**Answer:** C

**Explanation:**

Distance between A & B = 20 km

Since they are walking towards each other, their relative speed will be the sum of their individual speeds

=> relative speed =  $6+4 = 10$  km/h

=> Time taken to meet each other =  $\frac{20}{10} = 2$  hours

=> They will meet at  $(7+2) = 9.00$  a.m.

**Question 110**

**A policeman starts to chase a thief. When the thief goes 10 steps the policeman moves 8 steps. 5 steps of the policeman is equal to 7 steps of the thief. The ratio of the speeds of the policeman and the thief is**

- A 25 : 28
- B 25 : 26
- C 28 : 25
- D 56 : 25

**Answer:** C

**Explanation:**

5 steps of Policeman = 7 steps of a thief

=> 1 step of Policeman =  $\frac{7}{5}$  steps of thief

=> 8 Steps of Policeman =  $8 \times \frac{7}{5}$  steps of thief =  $\frac{56}{5}$  steps of thief

The ratio of speeds of policeman and thief = ratio of distance covered by policeman and thief in a same time

=> In same time policeman moves 8 steps and thief moves 10 steps

=>  $\frac{56}{5} : 10$  (because as we calculated earlier 8 steps of policeman =  $\frac{56}{5}$  steps of thief)

=>  $56 : 50 = 28 : 25$

## SSC CPO Previous Question papers (download pdf)

**Question 111**

**In a Mathematics examination the numbers scored by 5 candidates are 5 successive odd integers. If their total marks is 185, the highest score is**

- A 39
- B 43



C 41

D 37

**Answer: C**

**Explanation:**

let the numbers of 5 candidates be  $a-3, a-1, a+1, a+3, a+5$

It is given that

$$a-3+a-1+a+1+a+3+a+5 = 185$$

$$5a + 5 = 185$$

$$5a = 180$$

$$a = 36$$

$$\text{The highest score} = a + 5 = 36 + 5 = 41$$

**Question 112**

In two successive years, 80 and 60 students of a school appeared at the final examination of which 60% and 80% passed respectively. The average rate of students passed (in percent) is

A 68 %

B  $34\frac{2}{7}$  %

C 70 %

D  $72\frac{3}{7}$  %

**Answer: B**

**Explanation:**

In 1st year ,number of students appeared = 80

Passing Percentage = 60%

$$\text{Number of Students Passed in 1st year} = \frac{60}{100} \times 80 = 48$$

In 2nd year number of students appeared = 60

passing percentage for 2nd year = 80%

$$\text{Number of Students passed in 2nd year} = \frac{80}{100} \times 60 = 48$$

$$\text{Total students passed in 2 years} = 48+48 = 96$$

$$\text{average students passed in 2 years} = \frac{96}{2} = 48$$

$$\text{average passing percentage rate in 2 years} = \frac{48}{140} \times 100 = 34\frac{2}{7}\%$$

**Question 113**

**What is the value of**  $\frac{(941+149)^2+(941-149)^2}{(941 \times 941+149 \times 149)}$  ?

A 10

B 2

C 1

D 100

**Answer: B**

**Explanation:**

$$\begin{aligned} \text{Expression : } & \frac{(941+149)^2+(941-149)^2}{(941 \times 941+149 \times 149)} \\ = & \frac{(941^2+149^2+2.941.149)+(941^2+149^2-2.941.149)}{941^2+149^2} \\ = & \frac{2*(941^2+149^2)}{941^2+149^2} \\ = & 2 \end{aligned}$$

## SSC GD Previous Question papers (download pdf)

**Question 114**

If  $x + \frac{1}{x} = 5$ , then  $x^6 + \frac{1}{x^6}$  is

- A 12098
- B 12048
- C 14062
- D 12092

**Answer: A**

**Explanation:**

Expression :  $x + \frac{1}{x} = 5$

Cubing both sides, we get :

$$\begin{aligned} \Rightarrow & \left(x + \frac{1}{x}\right)^3 = 5^3 \\ \Rightarrow & x^3 + \frac{1}{x^3} + 3.x.\frac{1}{x}.\left(x + \frac{1}{x}\right) = 125 \\ \Rightarrow & x^3 + \frac{1}{x^3} + 15 = 125 \\ \Rightarrow & x^3 + \frac{1}{x^3} = 110 \end{aligned}$$

Now, squaring both sides, we get :

$$\begin{aligned} \Rightarrow & x^6 + \frac{1}{x^6} + 2 = 12100 \\ \Rightarrow & x^6 + \frac{1}{x^6} = 12098 \end{aligned}$$

**Question 115**

$\sqrt[5]{5} \times 5^3 \div 5^{\frac{3}{2}} = 5^{a+2}$  then the value of a is

- A  $\frac{-3}{10}$
- B  $\frac{9}{10}$
- C  $\frac{11}{10}$
- D  $\frac{7}{10}$

**Answer: A**

**Explanation:**

$$(5^{1/5} \times 5^3) \div 5^{3/2} = 5^{a+2}$$

$$5^{17/10} = 5^{a+2}$$

$$a = \frac{17}{10} - 2$$

$$a = \frac{-3}{10}$$

**Question 116**

If  $x^2 - 3x + 1 = 0$  then the value of  $\frac{x^6 + x^4 + x^2 + 1}{x^3}$  will be

- A 18
- B 15
- C 21
- D 30

**Answer:** C

**Explanation:**

Expression :  $x^2 - 3x + 1 = 0$

$$\Rightarrow x^2 + 1 = 3x$$

$$\Rightarrow x + \frac{1}{x} = 3 \text{ -----Eqn(1)}$$

To find :  $\frac{x^6 + x^4 + x^2 + 1}{x^3}$

$$= (x^3 + \frac{1}{x^3}) + (x + \frac{1}{x})$$

$$= [(x + \frac{1}{x})^3 - 3 \cdot x \cdot \frac{1}{x} (x + \frac{1}{x})] + (x + \frac{1}{x})$$

Using eqn (1)

$$= 3^3 - 3 * 3 + 3 = 27 - 9 + 3$$

$$= 21$$

## SSC MTS Previous Question papers (download pdf)

**Question 117**

A boat goes 24 km upstream and 28 km downstream in 6 hours. It goes 30 km upstream and 21 km downstream in 6 hours and 30 minutes. The speed of the boat in still water is

- A 8 km/hr
- B 9 km/hr
- C 12 km/hr
- D 10 km/hr

**Answer:** D

**Explanation:**

Let speed of boat in still water =  $x$  km/h

and speed of stream =  $y$  km/h

$\Rightarrow$  Upstream speed of boat =  $(x - y)$  km/h

Downstream speed =  $(x + y)$  km/h

Acc to ques :

$$\Rightarrow \frac{24}{x-y} + \frac{28}{x+y} = 6$$

$$\text{and } x - y + \frac{21}{x + y} = \frac{1}{62}$$

Solving above equations, we get :

$$x = 10 \text{ km/h and } y = 4 \text{ km/h}$$

### Question 118

The compound interest on a certain sum of money for 2 years at 5% per annum is 410. The simple interest on the same sum at the same rate and for the same time is

- A 400
- B 300
- C 350
- D 405

**Answer:** A

#### Explanation:

we know that :

1. For first year , compound interest and simple interest is same if the principal amount and rate of interest is same in both cases.
2. From 2nd year onwards ,the compound interest is normal interest plus the interest on accumulated amount due to interest untill last cycle.
3. Every year simple interest remains same if Rate of Interest and principal amount remains same .

Let the compound interest for 1st year be be Rs  $y$

For two years ,CI = Rs 410

$$y + y + \frac{5}{100}y = 410$$

$$\frac{41y}{20} = 410$$

$$y = 200$$

So for two years , Simple Interest =  $200 + 200 = \text{Rs } 400$

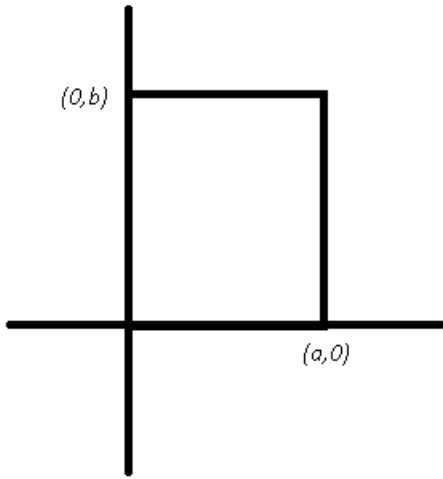
### Question 119

The graphs of  $x = a$  and  $y = b$  intersect at

- A (a, b)
- B (b, a)
- C (-a, b)
- D (a, -b)

**Answer:** A

#### Explanation:



Clearly, the lines  $x = a$  and  $y = b$  meet at a point  $(a,b)$

## SSC Stenographer Previous Question papers (download pdf)

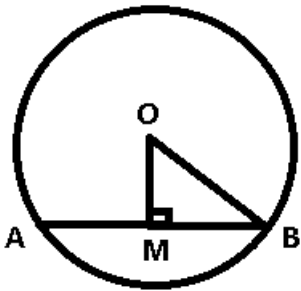
### Question 120

'O' is the centre of the circle, AB is a chord of the circle,  $OM \perp AB$ . If  $AB = 20$  cm,  $OM = 2\sqrt{11}$  cm, then radius of the circle is

- A 15 cm
- B 12 cm
- C 10 cm
- D 11 cm

Answer: B

Explanation:



OM is perpendicular bisector of  $AB = 20$  cm

$$\Rightarrow BM = 10 \text{ cm and } OM = 2\sqrt{11}$$

In  $\triangle OBM$

$$\text{radius, } OB = \sqrt{(OM)^2 + (BM)^2}$$

$$\Rightarrow OB = \sqrt{100 + 44} = \sqrt{144}$$

$$\Rightarrow OB = 12 \text{ cm}$$

### Question 121

If the angles of a triangle ABC are in the ratio 2 : 3 : 1, then the angles LA, LB and LC are

- A  $LA = 60^\circ$ ,  $LB = 90^\circ$ ,  $LC = 30^\circ$

**B**  $\angle A = 40^\circ, \angle B = 120^\circ, \angle C = 20^\circ$

**C**  $\angle A = 20^\circ, \angle B = 60^\circ, \angle C = 60^\circ$

**D**  $\angle A = 45^\circ, \angle B = 90^\circ, \angle C = 45^\circ$

**Answer:** A

**Explanation:**

Let the angles of the triangle be  $2x, 3x$  and  $x$

Using angle sum property, we get :

$$\Rightarrow x + 2x + 3x = 180^\circ$$

$$\Rightarrow x = \frac{180}{6} = 30^\circ$$

$\Rightarrow$  Angles are :

$$\angle A = 2 \times 30^\circ = 60^\circ$$

$$\angle B = 3 \times 30^\circ = 90^\circ$$

$$\angle C = 1 \times 30^\circ = 30^\circ$$

**Question 122**

In  $\triangle ABC$ ,  $\angle ABC = 70^\circ, \angle BCA = 40^\circ$ .  $O$  is the point of intersection of the perpendicular bisectors of the sides, then the angle  $\angle BOC$  is

**A**  $100^\circ$

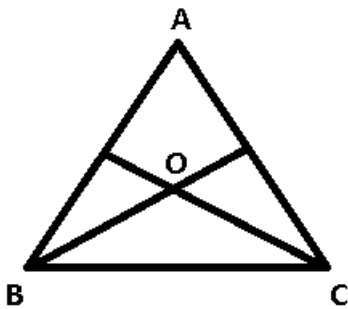
**B**  $120^\circ$

**C**  $130^\circ$

**D**  $140^\circ$

**Answer:** D

**Explanation:**



Given :  $\angle ABC = 70^\circ$  and  $\angle ACB = 40^\circ$

OB and OC are perpendicular bisectors

$$\Rightarrow \angle BOC = 2 \times \angle BAC \text{ -----Eqn(1)}$$

In  $\triangle ABC$

$$\Rightarrow \angle BAC + \angle ABC + \angle BCA = 180^\circ$$

$$\Rightarrow \angle BAC = 180^\circ - (70^\circ + 40^\circ) = 180^\circ - 110^\circ$$

$$\Rightarrow \angle BAC = 70^\circ$$

Using eqn(1), we get :

$$\angle BOC = 2 \times 70 = 140^\circ$$

## SSC CHSL Free Mock Test

### Question 123

If the measures of the sides of triangle are  $(x^2 - 1)$ ,  $(x^2 + 1)$  and  $2x$  cm, then the triangle would be

- A equilateral
- B acute-angled
- C isosceles
- D right-angled

**Answer:** D

### Explanation:

Sides of the triangle are =  $(x^2 - 1)$ ,  $(x^2 + 1)$  and  $2x$

By putting  $x = 2$ , we get the sides as 3,4,5 which are the sides of right angled triangle. Thus, we need to check for only right angled triangle

Clearly, longest side here is  $(x^2 + 1)$

$$\begin{aligned} \Rightarrow [(x^2 - 1)^2 + (2x)^2] &= (x^4 + 1 - 2x^2 + 4x^2) \\ &= (x^4 + 2x^2 + 1) \\ &= (x^2 + 1)^2 \end{aligned}$$

Thus, these are the sides of a right angled triangle.

### Question 124

If  $2^x = 4^y = 8^z$  and  $xyz = 288$ , the value of  $\frac{1}{2x} + \frac{1}{4y} + \frac{1}{8z}$  is

- A  $\frac{11}{12}$
- B  $\frac{11}{96}$
- C  $\frac{29}{96}$
- D  $\frac{27}{96}$

**Answer:** B

### Explanation:

Expression :  $2^x = 4^y = 8^z$

$$\Rightarrow 2^x = 2^{2y} = 2^{3z}$$

$$\Rightarrow x = 2y = 3z = k \text{ (let)}$$

Now,  $xyz = 288$

$$\Rightarrow k * \frac{k}{2} * \frac{k}{3} = 288$$

$$\Rightarrow k^3 = 12^3$$

$$\Rightarrow k = 12$$

$$\Rightarrow x = 12, y = 6, z = 4$$

To find :  $\frac{1}{2x} + \frac{1}{4y} + \frac{1}{8z}$

$$= \frac{1}{24} + \frac{1}{24} + \frac{1}{32}$$

$$= \frac{11}{96}$$

### Question 125

If  $x^4 + \frac{1}{x^4} = 119$  and  $x < 1$  the find the positive value of  $x^3 - \frac{1}{x^3}$

- A 25
- B 27
- C 36
- D 49

**Answer: C**

#### Explanation:

Expression :  $x^4 + \frac{1}{x^4} = 119$

$$\Rightarrow x^4 + \frac{1}{x^4} + 2 = 121$$

$$\Rightarrow \left(x^2 + \frac{1}{x^2}\right)^2 = 11^2$$

$$\Rightarrow x^2 + \frac{1}{x^2} = 11$$

$$\Rightarrow x^2 + \frac{1}{x^2} - 2 = 9$$

$$\Rightarrow \left(x - \frac{1}{x}\right)^2 = 3^2$$

$$\Rightarrow x - \frac{1}{x} = 3$$

Now, cubing both sides, we get :

$$\Rightarrow x^3 - \frac{1}{x^3} - 3 \cdot x \cdot \frac{1}{x} \cdot \left(x - \frac{1}{x}\right) = 27$$

$$\Rightarrow x^3 - \frac{1}{x^3} = 27 + 3 * 3 = 36$$

## SSC MTS Free Mock Test

### Question 126

The value of  $(3 + 2\sqrt{2})^{-3} + (3 - 2\sqrt{2})^{-3}$  is

- A 198
- B 180
- C 108
- D 189

**Answer: A**

#### Explanation:

Expression :  $(3 + 2\sqrt{2})^{-3} + (3 - 2\sqrt{2})^{-3}$

$$= \frac{1}{(3+2\sqrt{2})^3} + \frac{1}{(3-2\sqrt{2})^3}$$

$$= \frac{1}{(27+16\sqrt{2}+54\sqrt{2}+72)} + \frac{1}{(27-16\sqrt{2}-54\sqrt{2}+72)}$$

$$= \frac{1}{99+70\sqrt{2}} + \frac{1}{99-70\sqrt{2}}$$

$$= \frac{99-70\sqrt{2}+99+70\sqrt{2}}{9801-9800}$$



$$= 99 + 99 = 198$$

### Question 127

The value of  $\sin^2 30^\circ \cos^2 45^\circ + 5 \tan^2 30^\circ + \frac{3}{2} \sin^2 90^\circ - 3 \cos^2 90^\circ$  is

A  $3\frac{7}{24}$

B  $3\frac{3}{24}$

C  $3\frac{1}{24}$

D  $3\frac{5}{24}$

Answer: A

### Explanation:

Expression :  $\sin^2 30^\circ \cos^2 45^\circ + 5 \tan^2 30^\circ + \frac{3}{2} \sin^2 90^\circ - 3 \cos^2 90^\circ$

$$= \left[\left(\frac{1}{2}\right)^2 * (\sqrt{2})^2\right] + 5\left(\frac{1}{\sqrt{3}}\right)^2 + \frac{3}{2}(1^2) - 3(0)^2$$

$$= \left(\frac{1}{4} * \frac{1}{2}\right) + \frac{5}{3} + \frac{3}{2}$$

$$= \frac{3+40+36}{24}$$

$$= \frac{79}{24} = 3\frac{7}{24}$$

### Question 128

If  $\cos^2 \theta - \sin^2 \theta = \frac{1}{3}$ , where  $0 \leq \theta \leq \pi/2$  then the value of  $\cos^4 \theta - \sin^4 \theta$  is

A  $\frac{1}{3}$

B  $\frac{2}{3}$

C  $\frac{1}{9}$

D  $\frac{2}{9}$

Answer: A

### Explanation:

Expression :  $\cos^2 \theta - \sin^2 \theta = \frac{1}{3}$

We know that  $\cos^2 \theta + \sin^2 \theta = 1$

Adding the above two equations, we get :

$$\Rightarrow 2\cos^2 \theta = \frac{4}{3}$$

$$\Rightarrow \cos^2 \theta = \frac{2}{3}$$

Squaring both sides,

$$\Rightarrow \cos^4 \theta = \frac{4}{9}$$

Similarly, subtracting those two equations, we get :

$$\Rightarrow \sin^2 \theta = \frac{1}{3}$$

$$\Rightarrow \sin^4 \theta = \frac{1}{9}$$

Now, to find :  $\cos^4 \theta - \sin^4 \theta$

$$= \frac{4}{9} - \frac{1}{9}$$

$$= \frac{3}{9} = \frac{1}{3}$$

## SSC CPO Free Mock Test

### Question 129

If  $\tan\theta = 1/\sqrt{11}$   $0 < \theta < \pi/2$ , then the value of  $\frac{\operatorname{cosec}^2\theta - \sec^2\theta}{\operatorname{cosec}^2\theta + \sec^2\theta}$

- A  $\frac{3}{4}$
- B  $\frac{4}{5}$
- C  $\frac{5}{6}$
- D  $\frac{6}{7}$

Answer: C

Explanation:

Expression :  $\tan\theta = \frac{1}{\sqrt{11}}$

We know that,  $\sec\theta = \sqrt{1 + \tan^2\theta}$

$$\Rightarrow \sec\theta = \sqrt{1 + \frac{1}{11}} = \sqrt{\frac{12}{11}}$$

Now,  $\operatorname{cosec}\theta = \frac{\sec\theta}{\tan\theta}$

$$\Rightarrow \operatorname{cosec}\theta = \sqrt{12}$$

To find :  $\frac{\operatorname{cosec}^2\theta - \sec^2\theta}{\operatorname{cosec}^2\theta + \sec^2\theta}$

$$= \frac{12 - \frac{12}{11}}{12 + \frac{12}{11}}$$

$$= \frac{1 - \frac{1}{11}}{1 + \frac{1}{11}}$$

$$= \frac{10}{12} = \frac{5}{6}$$

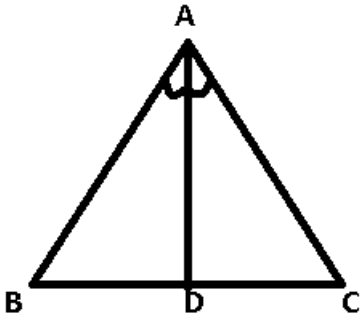
### Question 130

If angle bisector of a triangle bisect the opposite side, then what type of triangle is it ?

- A Right angled
- B Scalene
- C Similar
- D Isosceles

Answer: D

Explanation:



Given :  $\angle BAD = \angle DAC$  and  $BD = DC$

Solution : The angle bisector theorem states that :

$$\Rightarrow \frac{AB}{BD} = \frac{AC}{DC}$$

$$\because BD = DC$$

$$\Rightarrow AB = AC$$

$\Rightarrow \triangle ABC$  is isosceles triangle.

**Question 131**

If each angle of a triangle is less than the sum of the other two, then the triangle is

- A obtuse angled
- B right angled
- C acute angled
- D equilateral

**Answer:** C

**Explanation:**

Let the angles of a triangle be  $\angle A$ ,  $\angle B$  and  $\angle C$

We know that,  $\angle A + \angle B + \angle C = 180$

Acc to ques :

$$\Rightarrow \angle C < (\angle A + \angle B)$$

$$\Rightarrow \angle C < (180 - \angle C)$$

$$\Rightarrow \angle C < 90$$

Similarly,  $\angle B < 90$  and  $\angle A < 90$

Since, all the angles of the triangle are less than 90,  $\Rightarrow$  It is acute angled triangle.

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**Question 132**

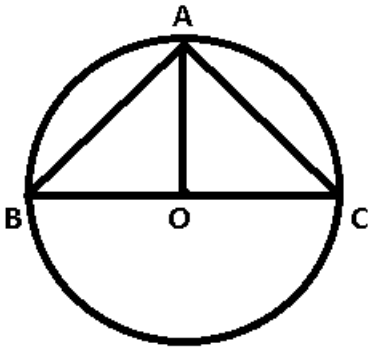
A, B, C are three points on the circumference of a circle and if  $AB=AC$   $5\sqrt{2}$   $\angle BAC = 90^\circ$ , find the radius.

- A 10 cm
- B 5 cm
- C 20 cm

D 15 cm

**Answer:** B

**Explanation:**



Given :  $AB = AC = 5\sqrt{2}$  and  $\angle BAC = 90^\circ$

To find :  $OB = OC = OA = r$

Solution : Since,  $AB = AC$ ,  $\Rightarrow \angle ABC = \angle ACB$

In  $\triangle ABC$ ,

$\Rightarrow \angle ABC + \angle ACB + 90^\circ = 180^\circ$

$\Rightarrow \angle ABC = 45^\circ$

Now, in  $\triangle OAB$

$\Rightarrow \sin \angle ABO = \frac{OA}{AB}$

$\Rightarrow \sin 45^\circ = \frac{OA}{5\sqrt{2}}$

$\Rightarrow OA = \frac{5\sqrt{2}}{\sqrt{2}}$

$\Rightarrow OA = 5$  cm

**Question 133**

**Pipe A is an inlet pipe filling the tank at 8000 litres/hr. Pipe B empties the tank in 3 hours. The capacity of the tank is**

A 12000 l

B 8000 l

C 6000 l

D 4000 l

**Answer:** A

**Question 134**

**A tap drips at a rate of one drop/sec. 600 drops make 100ml. The number of litres wasted in 300 days is**

A 4320000

B 432000

C 43200

D 4320

**Answer:** D

**Explanation:**

Rate at which tap drips = 1 drop/sec

Now, no. of seconds in 1 day =  $24 \times 60 \times 60 = 86400$  sec

=> In 1 day the tap drips 86400 drops

=>  $\frac{86400}{600} \times 100 = 14400$  ml = 14.4 litres

Thus, in 300 days, water wasted =  $14.4 \times 300 = 4320$  litres

## SSC Stenographer Free Mock Test

**Question 135**

ABC is a right angled triangle. B being the right angle. Midpoints of AB, BC and AC are respectively B', C' and A'. Area of  $\Delta A'B'C'$  is

**A**  $\frac{1}{2}$  x area of AABC

**B**  $\frac{2}{3}$  x area of AABC

**C**  $\frac{1}{4}$  x area of AABC

**D**  $\frac{1}{8}$  x area of AABC

**Answer:** C

**Explanation:**

The triangle obtained by joining the midpoints will also be a right angled triangle.

Since the sides are reduced by a factor of 2, the area will be reduced by a factor of 4. (Since area =  $0.5 \times b \times h$ )

Option C is the right answer.

**Question 136**

Three numbers are in the ratio 1 : 2 : 3 and their HCF is 12. The numbers are

**A** 12, 24, 36

**B** 5, 10, 15

**C** 4, 8, 12

**D** 10, 20, 30

**Answer:** A

**Explanation:**

As the numbers are in the ratio of 1:2:3 so let the numbers be y, 2y, 3y

The numbers taken are co prime, => the highest common factor = y

and y = 12

=> Numbers are 12, 24, 36

**Question 137**

If  $x [-2 \{-4 (-a)\}] + 5 [-2 \{-2 (-a)\}] = 4a$ , then x =

**A** -2

- B -3
- C -4
- D -5

**Answer:** B

**Explanation:**

$$\text{Expression : } x[-2-4(-a)] + 5[-2-2(-a)] = 4a$$

$$\Rightarrow x[-2 \times 4a] + 5[-2 \times 2a] = 4a$$

$$\Rightarrow -8ax + 5(-4a) = 4a$$

$$\Rightarrow -8ax = 20a + 4a$$

$$\Rightarrow x = -3$$

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**Question 138**

A can complete a work in 'm' days and B can complete it in 'n' days. How many days will it take to complete the work if both A and B work together ?

- A  $(m + n)$  days
- B  $\left(\frac{1}{m} \times \frac{1}{n}\right)$
- C  $\left(\frac{m+n}{mn}\right)$
- D  $\left(\frac{mn}{m+n}\right)$

**Answer:** D

**Explanation:**

Let the total work be  $mn$  units

$$\Rightarrow \text{Rate at which A completes the work} = \frac{mn}{m} = n \text{ units/day}$$

$$\Rightarrow \text{Rate at which B completes the work} = \frac{mn}{n} = m \text{ units/day}$$

$$\Rightarrow \text{Rate at which both A \& B work together} = (m + n) \text{ units/day}$$

$$\Rightarrow \text{No. of days required by both of them to complete the work} = \frac{mn}{m+n} \text{ days}$$

**Question 139**

From a point P on the ground the angle of elevation of the top of a 10 m tall building is  $30^\circ$ . A flag is hoisted at the top of the building and the angle of elevation of the top of the flagstaff from P is  $45^\circ$ . Find the length of the flagstaff. (Take  $\sqrt{3} = 1.732$ )

- A  $10(\sqrt{3} + m)$
- B  $10(\sqrt{3} + 1) m$
- C  $10\sqrt{3} m$
- D 7.32 m

**Answer:** D

**Explanation:**

Given : Height of building = BC = 10 m

$\angle BPC = 30^\circ$  and  $\angle APC = 45^\circ$

To find : length of flagstaff = AB = ?

Solution : In  $\triangle BCP$

$$\Rightarrow \tan 30^\circ = \frac{BC}{CP}$$

$$\Rightarrow \frac{1}{\sqrt{3}} = \frac{10}{CP}$$

$$\Rightarrow CP = 10\sqrt{3}$$

Now, in  $\triangle ACP$

$$\Rightarrow \tan 45^\circ = \frac{AC}{CP}$$

$$\Rightarrow 1 = \frac{AC}{10\sqrt{3}}$$

$$\Rightarrow AC = 10\sqrt{3}$$

Now,  $AB = AC - BC$

$$\Rightarrow AB = 10\sqrt{3} - 10$$

$$\Rightarrow AB = 17.32 - 10 = 7.32m$$

**Question 140**

The value of  $\frac{1}{\sqrt{2}} \sin 6^\circ \cos 4^\circ - \cot 3^\circ \sec 6^\circ + \frac{5 \tan 4^\circ}{12 \sin 2^\circ}$  is equal to

- A 0
- B 1
- C 2
- D  $\frac{3}{2}$

**Answer: A**

**Explanation:**

Expression :  $\frac{1}{\sqrt{2}} \sin 6^\circ \cos 4^\circ - \cot 3^\circ \sec 6^\circ + \frac{5 \tan 4^\circ}{12 \sin 2^\circ}$

$$= \frac{1}{\sqrt{2}} \left( \frac{1}{2} * \frac{1}{\sqrt{2}} \right) - \left( \frac{1}{\sqrt{3}} * \frac{2}{\sqrt{3}} \right) + \frac{5 * 1}{12 * 1}$$

$$= \left( \frac{1}{\sqrt{2}} * \frac{1}{2\sqrt{2}} \right) - \frac{2}{3} + \frac{5}{12}$$

$$= \frac{1}{4} - \frac{1}{4}$$

$$= 0$$

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**Question 141**

if  $\sin \theta = \frac{3}{5}$  is equal to  $\frac{\tan \theta + \cos \theta}{\cot \theta + \operatorname{cosec} \theta}$  is equal to

- A  $\frac{29}{60}$
- B  $\frac{31}{60}$

C  $\frac{34}{60}$

D  $\frac{37}{60}$

**Answer: B**

**Explanation:**

Expression :  $\sin\theta = \frac{3}{5}$

We know that,  $\cos\theta = \sqrt{1 - \sin^2\theta}$

$$\Rightarrow \cos\theta = \sqrt{1 - \frac{9}{25}} = \sqrt{\frac{16}{25}}$$

$$\Rightarrow \cos\theta = \frac{4}{5}$$

Similarly,  $\tan\theta = \frac{3}{4}$

$$\cot\theta = \frac{4}{3}$$

$$\operatorname{cosec}\theta = \frac{5}{3}$$

To find :  $\frac{\tan\theta + \cos\theta}{\cot\theta + \operatorname{cosec}\theta}$

Using above values, we get :

$$= \frac{\frac{3}{4} + \frac{4}{5}}{\frac{4}{3} + \frac{5}{3}}$$

$$= \frac{\frac{31}{20}}{\frac{9}{3}}$$

$$= \frac{31}{60}$$

**Question 142**

If  $a \cos \theta + b \sin \theta = p$  and  $a \sin \theta - b \cos \theta = q$ , then the relation between  $a$ ,  $b$ ,  $p$  and  $q$  is

A  $a^2 - b^2 = p^2 - q^2$

B  $a^2 + b^2 = p^2 + q^2$

C  $a + b = p + q$

D  $a - b = p - q$

**Answer: B**

**Explanation:**

Expression 1 :  $a \cos \theta + b \sin \theta = p$

Squaring both sides, we get :

$$\Rightarrow a^2 \cos^2 \theta + b^2 \sin^2 \theta + 2ab \sin \theta \cos \theta = p^2 \text{ -----Eqn(1)}$$

Expression 2 :  $a \sin \theta - b \cos \theta = q$

Squaring both sides, we get :

$$\Rightarrow a^2 \sin^2 \theta + b^2 \cos^2 \theta - 2ab \sin \theta \cos \theta = q^2 \text{ -----Eqn(2)}$$

Adding eqns (1) & (2)

$$\Rightarrow a^2 (\sin^2 \theta + \cos^2 \theta) + b^2 (\sin^2 \theta + \cos^2 \theta) = p^2 + q^2$$

$$\Rightarrow a^2 + b^2 = p^2 + q^2$$



**Question 143**

60 students were asked to choose their favourite sport.

Their distribution is as follows :

Football - 15

Cricket - 12

Swimming - 12

Basketball - 11

Athletics - 10

The data is illustrated in a Pie Chart. What angle should be used for football ?

- A 15°
- B 60°
- C 90°
- D 180°

**Answer:** C

**Explanation:**

No. of students who like football = 15

Total students = 60

Angle used for football =  $\frac{15}{60} * 360 = 90^\circ$

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**Question 144**

In a triangle ABC, AB = AC. BC is extended to D. and  $\angle ACD = 120^\circ$ , then  $\angle A$  is equal to

- A 50°
- B 60°
- C 70°
- D 80°

**Answer:** B

**Explanation:**

BC is extended to D. Hence, Angle on line BC = 180 degrees.

We have been given that, Angle ACD = 120 degrees.

=> Angle ACB = 60 degrees. Angle ABC = Angle ACB - since the given triangle is isosceles.

Angle A + Angle B + Angle C = 180 degrees (Angles in a triangle)

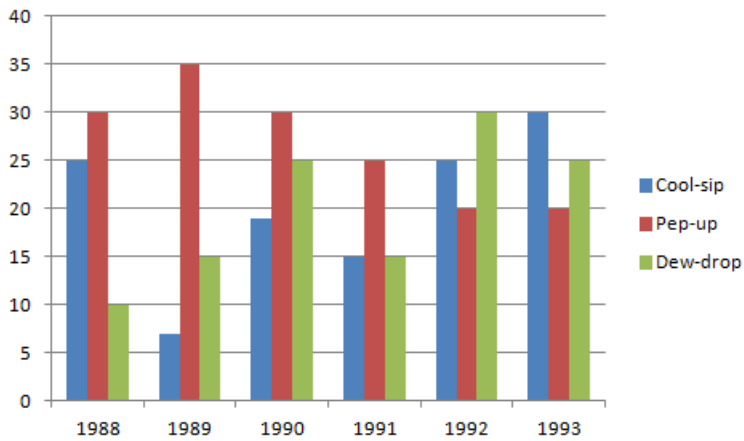
=> Angle B = 180 - 60 - 60

Angle B = 60 degrees.

Option B is the right answer.

**Instructions**

Study the graph and answer the questions.



#### Question 145

In which year the sale of cool-sip is minimum ?

- A 1990
- B 1992
- C 1993
- D None of the above

**Answer:** D

#### Explanation:

Sales of cool sip in :

1988 - 25

1989 - 6 [MIN]

1990 - 19

1991 - 15

1992 - 25

1993 - 30

=> Sales of cool sip is minimum in 1989

Ans - (D)

#### Question 146

In case of which soft drink was the average annual sale maximum during the period 1988-1993 ?

- A Pep-up only
- B Pep-up and Dew-drop
- C Cool-sip only
- D Cool-sip and Pep-up

**Answer:** A

#### Explanation:

Sales of cool sip from 1988 to 1993 =  $25+6+19+15+25+30 = 120$

=> Average sales =  $120/6 = 20$

Sales of pep up =  $30+35+30+25+20+20 = 160$

=> Average sales =  $160/6 = 26.67$  [MAX]

Sales of dew drop =  $10+15+25+15+30+25 = 120$

=> Average sales =  $120/6 = 20$

Average sales of pep up is maximum

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### Question 147

What was the approximate percent drop in the sale of Pep-up in 1990 over its sale in 1989 ?

- A 5
- B 14
- C 12
- D 20

**Answer:** B

#### Explanation:

Sales of pep up in 1989 = 35

Sales of pep up in 1990 = 30

$$\begin{aligned} \Rightarrow \% \text{ decrease} &= \frac{35-30}{35} * 100 = 14.28\% \\ &= \sim 14\% \end{aligned}$$

### Question 148

What was the approximate percent increase in sales of Cool-sip in 1990 over its sales in 1989 ?

- A 100
- B 217
- C 171
- D 150

**Answer:** B

#### Explanation:

Sales of cool sip in 1989 = 6

Sales of cool sip in 1990 = 19

$$\begin{aligned} \Rightarrow \% \text{ increase} &= \frac{19-6}{6} * 100 = 216.67\% \\ &= \sim 217\% \end{aligned}$$

### Question 149

In which year sale of Dew-drop is maximum ?

- A 1988
- B 1992
- C 1989
- D 1993

**Answer:** B

**Explanation:**

Sales of dew drop in :

1988 - 10

1989 - 15

1990 - 25

1991 - 15

1992 - 30 [MAX]

1993 - 25

=> Sales of dew drop is maximum is 1992

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**Question 150**

**In case of which soft drink was the average annual sale minimum during the period 1988-1993 ?**

- A** Pep-up only
- B** Cool-sip only
- C** Dew-drop only
- D** Dew-drop and Cool-sip

**Answer:** D

**Explanation:**

Sales of cool sip from 1988 to 1993 =  $25+6+19+15+25+30 = 120$

=> Average sales =  $120/6 = 20$

Sales of pep up =  $30+35+30+25+20+20 = 160$

=> Average sales =  $160/6 = 26.67$

Sales of dew drop =  $10+15+25+15+30+25 = 120$

=> Average sales =  $120/6 = 20$

Average sales of both cool sip and dew drop is minimum.

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**English**

**Instructions**

In the following questions, sentences are given with blanks to be filled with an appropriate word(s). Four alternatives are suggested for each question. Choose the correct alternative out of the four.

**Question 151**

**When she parted ,..... her parents, her eyes were full of tears.**

- A** from
- B** away
- C** off

D with

**Answer: B**

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### Question 152

He went ..... to oblige his superior.

A on his way

B out of his way

C in his way

D with his way

**Answer: B**

### Question 153

During a period of protracted illness, the sick can become infirm, .....both the strength to work and many of the specific skills that were once possessed.

A regaining

B denying

C pursuing

D losing

**Answer: D**

### Question 154

The members of the religious sect ostracized the .....who had abandoned their faith.

A coward

B litigant

C recreant

D suppliant

**Answer: D**

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### Question 155

Would you mind ..... the suitcase, Sir ?

A open

B opening

C to open

**D** opened

**Answer:** B

**Instructions**

In the following questions, out of the four alternatives, choose the one which best expresses the meaning of the given word.

**Question 156**

**Impervious**

**A** Audacious

**B** Haphazard

**C** Impenetrable

**D** Illogical

**Answer:** C

**Question 157**

**Peruse**

**A** Overuse

**B** Examine

**C** Abuse

**D** Defuse

**Answer:** B

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**Question 158**

**Amicable**

**A** Friendly

**B** Happy

**C** Perfect

**D** Joyous

**Answer:** A

**Instructions**

In the following questions, choose the word opposite in meaning to the given word as your answer.

**Question 159**

**Desecration**

**A** Hopelessness

**B** Disbelief

- C Veneration
- D Manifestation

**Answer: C**

**Question 160**

**Yield**

- A Respond
- B Survive
- C Attack
- D Resist

**Answer: D**

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**Question 161**

**Particularly**

- A Elaborately
- B Generally
- C Comprehensively
- D Entirely

**Answer: B**

**Instructions**

In the following questions, four alternatives are given for the Idiom/Phrase printed in bold in the sentence. Choose the alternative which best expresses the meaning of the Idiom/Phrase.

**Question 162**

**Indians are going places in the field of software technology.**

- A going abroad
- B going to spaces
- C talented and successful
- D friendly and amicable

**Answer: C**

**Question 163**

**She is a person who pulls no punches.**

- A speaks politely
- B speaks frankly

- C speaks rudely
- D speaks sweetly

**Answer:** A

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### Question 164

**For any group work to be successful, it is important that everyone is on the same page.**

- A present for the meeting
- B registered for the work
- C willing to pay the same fees
- D thinks in a similar way

**Answer:** D

### Question 165

**Our plan to go to London is in the air.**

- A undecided
- B certain
- C under consideration
- D for approval

**Answer:** B

### Question 166

**My efforts at pest control went in vain, I have to go back to the drawing board.**

- A plan it all over again
- B take professional help
- C spend some time researching abroad
- D work at night

**Answer:** A

## General Science Notes for SSC CGL

### Instructions

In the following questions, a sentence/ part of the sentence is printed in bold. Below are given alternatives to the bold sentence/part of the sentence at a, b and c which may improve the sentence. Choose the correct alternative. In case no improvement is needed, your answer is d.

### Question 167

**This crime makes a man liable for transportation till his life.**



- A to transportation to life
- B for transportation for life
- C to transportation for life
- D No improvement

**Answer: B**

**Question 168**

**I don't think many people will be able to attend the meeting tomorrow. I, but for one, have to be in Chennai.**

- A so for one
- B rather for one
- C for one
- D No improvement

**Answer: C**

**Question 169**

**My visits to my family are a few and far between.**

- A few and a far between
- B few and far between
- C few or far between
- D No improvement

**Answer: B**

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**Question 170**

**Their friendship will not last through long time.**

- A last through a long time
- B last through
- C last long
- D No improvement

**Answer: C**

**Question 171**

**All these articles are kept in a tin box to prevent from spoiling of damp in rainy season.**

- A prevent them from spoiling by damp

- B prevent them being spoiled by damp
- C prevent them from spoiling of damp
- D No improvement

**Answer:** A

**Question 172**

**Your previous project was only failed because you did not persevere yourself in it.**

- A failed only because you did not persevere.
- B failed only because you did not persevere for it.
- C only failed because you did not persevere.
- D No improvement

**Answer:** B

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**Question 173**

**I had more sympathy with you. my friend.**

- A have a more sympathy
- B have much sympathy
- C had much sympathy
- D No improvement

**Answer:** B

**Question 174**

**The bank manager was given a holiday and so he resolved to go for hitch-hiking.**

- A with hitch-hiking
- B for the hitch-hiking
- C hitch-hiking
- D No improvement

**Answer:** D

**Question 175**

**Our big iron gate jingles on its hinges as it is opened.**

- A clangs
- B grates
- C bangs

**D** No improvement

**Answer:** B

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### Question 176

**Although other parts the world 20 per cent of the farm area is owned by women, in India women own less than 7 per cent.**

**A** If in other parts of

**B** However some parts of

**C** While in other parts of

**D** No improvement

**Answer:** C

### Instructions

In the following questions, out of the four alternatives, choose the one which can be substituted for the given words/sentences.

### Question 177

**Passing out of use**

**A** Adolescent

**B** Reticent

**C** Translucent

**D** Obsolescent

**Answer:** D

### Question 178

**A drink usually made from a mixture of one or more alcoholic drinks**

**A** Cocktail

**B** Mocktail

**C** Liquor

**D** Bisque

**Answer:** A

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### Question 179

**Affecting or relating to cows**

**A** Feline

- B** Bovine
- C** Ovine
- D** Vulpine

**Answer:** B

**Question 180**

**Something that might happen in the future**

- A** Contingency
- B** Insurance
- C** Emergency
- D** Prophecy

**Answer:** A

**Question 181**

**A special fondness or liking for**

- A** Propensity
- B** Inclination
- C** Penchant
- D** Preoccupation

**Answer:** C

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**Question 182**

**Relating to kinship with the father**

- A** Patrilineal
- B** Fratrilineal
- C** Matrilineal
- D** Familial

**Answer:** A

**Question 183**

**A part of a word that can be pronounced separately**

- A** Particle
- B** Sibilant
- C** Syllable

D Letter

**Answer: C**

**Instructions**

In the following questions, four words are given in each question, out of which only one word is correctly spelt. Find the correctly spelt word.

**Question 184**

A Accessible

B Akcessible

C Accesible

D Accesible

**Answer: A**

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**Question 185**

A Camouflage

B Camaflouge

C Cemouflege

D Cemouflage

**Answer: A**

**Instructions**

Read the passage carefully and choose the best answer to each question out of the four alternatives.

The Critical Faculty is the most potent one in the human make-up. Its pervasiveness and force have not properly been recognized because like breathing, it is so much a part and parcel of human activity. The difference between a simpleton and an intelligent man, according to the man who is convinced that he is of the latter category, is that the former wholeheartedly accepts all things that he sees and hears while the latter never admits anything except after a most searching scrutiny. He imagines his intelligence to be a sieve of closely woven mesh through which nothing but the finest can pass. The critical sense is essential for keeping social transactions in a warm state. Otherwise life would become very dull and goody-goody. The critical faculty is responsible for a lot of give and take in life. It increases our awareness of our surroundings; it sounds dignified no doubt, but it seems also to mean that we can watch someone else's back better than our own! We never know our own defects till they are pointed out to us, and even then we need not accept them. We always question the bonafides of the man who tells us unpleasant facts. On the surface it is all very well to say, 'I want an honest criticism; that will help me, not blind compliments.' I wish people would mean it.

**Question 186**

**The negative side of the critical faculty is that**

A it makes us critical of others.

B it makes us critical of ourselves.

C it sounds dignified but it is not actually so.

D it is a tool for creating classificatory division.

Answer: A

**Question 187**

**People who solicit others' opinions (about themselves) generally want**

- A effusive compliments
- B honest criticism
- C harsh facts
- D precise feedback

Answer: B

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**Question 188**

**The critical faculty is defined as the 'most potent one in human make-up' because**

- A it is all pervasive and powerful.
- B it separates the simpleton from the intelligent man.
- C it is a help in social transactions.
- D All of the above

Answer: D

**Question 189**

**What, according to the writer, is the essential link between breathing and the critical faculty ?**

- A Both are required in social relations
- B Both are exercised by human beings
- C Both grow with age
- D Both stop with death

Answer: B

**Question 190**

**The self-defined intelligent man defines himself on the basis of**

- A his obvious divergence from the simpleton.
- B his superior intelligence as a whole.
- C his possession of the critical faculty.
- D his heightened awareness of his surroundings.

Answer: A

## SSC GD Previous Question papers (download pdf)

### Instructions

Read the passage carefully and choose the best answer to each question out of the four alternatives.

International trade represents a significant share of Gross Domestic Product (GDP). While international trade has been present throughout much of history, its economic, social and political importance has been on the rise in recent centuries. Industrialization, advances in technology, transportation, globalization, multinational corporations, and outsourcing are all having a major impact on the international trade system. Increasing international trade is crucial to the continuance of globalization. International trade is, in principle, not different from domestic as the motivation and the behaviour of parties is across a border or not. The main difference is that international trade. Another difference between domestic and international trade is that factors of production such as capital and labour are typically more mobile within a country than across countries.

### Question 191

Which of the following is one of the factors of production ?

- A Capital
- B Cost
- C Profit
- D Loss

Answer: A

### Question 192

What is the synonym of 'mobile' ?

- A Versatile
- B Moveable
- C Changeable
- D Transferable

Answer: B

### Question 193

Which one of the following has a major impact on international trade ?

- A Contribution to GDP
- B Industrialization
- C Outsourcing
- D Domestic trade

Answer: B

## SSC MTS Previous Question papers (download pdf)

### Question 194

According to the author, increasing international trade

- A brings about speedy industrialization
- B uplifts technology and transportation
- C is crucial to the continuance of globalization
- D encourages multinational corporations

**Answer: C**

**Question 195**

**What is the main difference between international and domestic trade ?**

- A One is more significant than the other
- B One is more costly than the other
- C One is more advanced than the other
- D One is more crucial than the other

**Answer: B**

**Instructions**

In the following questions, some of the sentences have errors and some have none. Find out which part of a sentence has an error. The number of that part is your answer. If there is no error, your answer is d: i.e., No error.

**Question 196**

**A chill wind blew (a)/ and icy fingers of death (b)/ crept up my spine. (c)/ No error (d).**

- A A chill wind blew
- B and icy fingers of death
- C crept up my spine.
- D No Error

**Answer: C**

## **SSC Stenographer Previous Question papers (download pdf)**

**Question 197**

**Such rules (a)/ do not apply to (b)/ you and I. (c),/ No error (d).**

- A Such rules
- B do not apply to
- C you and I.
- D No error

**Answer: C**

**Question 198**

**The river (a)/ has overflown (b)/ its banks. (c)/ No error (d).**



- A The river
- B has overflown
- C its banks.
- D No error

**Answer:** B

**Question 199**

**IIM Calcatta's MBA programme (a)/ is regarded (b)/ as the finest in the country (c)/ No error (d).**

- A IIM Calcatta's MBA programme
- B is regarded
- C as the finest in the country
- D No error

**Answer:** C

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**Question 200**

**One of the most (a)/ widely spread (b)/ bad habit is the use of tobacco. (c)/ No error (d).**

- A One of the most widely spread
- B widely spread
- C bad habit is the use of tobacco.
- D No error

**Answer:** C

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