



## SSC CHSL 6 December 2015 Evening Shift

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## Reasoning

### Instructions

For the following questions answer them individually

### Question 1

From the given alternatives words, select the word which cannot be formed using the letters of the given word.

**HARBINGER**

- A GARBAGE
- B RANGER
- C BARRING
- D GARNER

**Answer: A**

### Explanation:

The word 'HARBINGER' does not contain 2 A's or G's, thus the word *Garbage* cannot be formed.

=> Ans - (A)

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### Question 2

From the given alternatives words, select the word which can be formed using the letters of the given word.

**ENDEARMENT**

- A TEMPER
- B MEANS
- C TENDER
- D TENT

**Answer: C**

### Explanation:

The word 'ENDEARMENT' does not contain 'P,S' or 2 T's, thus only *Tender* can be formed.

=> Ans - (C)

### Question 3

If **BOY** is represented as 42, then **GIRL** is represented is

- A 46
- B 48
- C 40
- D 43

**Answer: A**

### Explanation:

If all the letters of English alphabetical series are represented by consecutive natural numbers, i.e., A=1, B=2, C=3 and so on.

=> B=2, O=15, Y=25  $\equiv 2 + 15 + 25 = 42$

Similarly, GIRL  $\equiv 7 + 9 + 18 + 12 = 46$

=> Ans - (A)

#### Instructions

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

#### Question 4

6 : 42 :: 5 : ?

A 40

B 30

C 35

D 45

Answer: B

#### Explanation:

Expression : 6 : 42 :: 5 : ?

The pattern followed is =  $n : n^2 + n$

Eg :- 6 :  $(6^2 + 6) = 6 : 42$

Similarly,  $5^2 + 5 = 25 + 5 = 30$

=> Ans - (B)

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#### Question 5

Hockey : India :: Baseball : ?

A USA

B Russia

C Australia

D China

Answer: A

#### Explanation:

Hockey is the national game of India, similarly Baseball is the national game of USA.

=> Ans - (A)

#### Question 6

Ant : Fly : Bee :: Hamster : Squirrel : ?

A Rodem

B Mouse

C Cat

D Spider

Answer: B

**Explanation:**

The three above the line are all insects. The hamster and squirrel are rodents, so the second option is correct because a mouse is also a rodent. The other three choices are not rodents.

=> Ans - (B)

**Question 7**

**144 : 13 :: 49 ?**

- A 8
- B 30
- C 11
- D 9

**Answer: A**

**Explanation:**

Expression : 144 : 13 :: 49 ?

The pattern followed is =  $n : \sqrt{n} + 1$

Eg :- 144 :  $\sqrt{144} + 1 = 144 : 13$

Similarly,  $\sqrt{49} + 1 = 7 + 1 = 8$

=> Ans - (A)

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**Question 8**

**ABDE GHJK MNPQ**

- A RTUW
- B STVW
- C CEFH
- D RSUV

**Answer: B**

**Explanation:**

Expression : ABDE GHJK MNPQ

Every third letter of the English alphabetical series is omitted, i.e. 'C,F,I,L,O' are missing.

Similarly, the next term is = **STVW**

=> Ans - (B)

**Question 9**

**ACE : GIK :: MOQ : ?**

- A SUW
- B VXZ
- C RTU

D STU

Answer: A

Explanation:

Expression = ACE : GIK :: MOQ : ?

The pattern followed is :

A	C	E
(+6)	(+6)	(+6)
G	I	K

Similarly, for MOQ :

M	O	Q
(+6)	(+6)	(+6)
S	U	W

=> Ans - (A)

Question 10

GNIDAER : READING :: NOITULOS : ?

A Solunott

B Neilosoot

C Pollutice

D Solution

Answer: D

Explanation:

Expression : GNIDAER : READING

The second term is written in reverse order according to the first term, i.e. first letter at last position, second at second last position and so on.

Thus, reverse of NOITULOS : **SOLUTION**

=> Ans - (D)

## SSC CGL Previous Papers (DOWNLOAD PDF)

Question 11

Brick : Wall :: Cell : ?

A Chlorophyll

B Organs

C DNA

D Tissue

Answer: D

Explanation:

Group of Bricks form a Wall. Similarly, group of Cells form a Tissue.

∴ Tissue is related to Cell in the same way Wall is related to Brick.

Hence, the correct answer is Option D

**Question 12**

21 : 3 :: 574 : ?

- A 23
- B 82
- C 113
- D 97

**Answer: B**

**Explanation:**

Expression = 21 : 3 :: 574 : ?

The pattern followed is =  $n : \frac{n}{7}$

Eg :-  $21 : \frac{21}{7} = 21 : 3$

Similarly,  $\frac{574}{7} = 82$

=> Ans - (B)

**Instructions**

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

**Question 13**

- A GLOVES
- B SWEATER
- C SHAWL
- D UMBRELLA

**Answer: D**

**Explanation:**

Gloves, Sweater and Shawl are clothing items worn during winter, while an umbrella is carried during rainy season, hence it is the odd one out.

=> Ans - (D)

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**Question 14**

- A PORTRAIT
- B DRAW
- C PAINT
- D SKETCH

**Answer: A**

**Explanation:**

A portrait is an engraving of a person, while draw, paint and sketch are verbs, hence portrait is the odd one out.

=> Ans - (A)

**Question 15**

- A HAND
- B NOSE
- C MOUTH
- D EYES

**Answer:** A

**Explanation:**

Nose, mouth and eyes are part of the face, hence hand is the odd one out.

=> Ans - (A)

**Question 16**

- A 6 : 22
- B 8 : 25
- C 13 : 40
- D 15 : 46

**Answer:** A

**Explanation:**

The pattern followed is =  $n : 3n + 1$

(A):  $(3 \times 6) + 1 = 19 \neq 22$

(B):  $(3 \times 8) + 1 = 25$

(C):  $(3 \times 13) + 1 = 40$

(D):  $(3 \times 15) + 1 = 46$

=> Ans - (A)

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**Question 17**

- A 21
- B 81
- C 71
- D 51

**Answer:** C

**Explanation:**

Among the given numbers, only 71 is prime, hence it is the odd one out.

=> Ans - (C)

**Question 18**

- A MNOP

B VUTS

C RQPO

D HGFE

**Answer: A**

**Explanation:**

(A) : M (+1 letter) = N (+1 letter) = O (+1 letter) = P

(B) : V (-1 letter) = U (-1 letter) = T (-1 letter) = S

(C) : R (-1 letter) = Q (-1 letter) = P (-1 letter) = O

(D) : H (-1 letter) = G (-1 letter) = F (-1 letter) = E

=> Ans - (A)

**Question 19**

A Latex1

B Q37Q

C Latex2

D latex3

**Answer: E**

**Question 20**

A 100

B 125

C 343

D 216

**Answer: A**

**Explanation:**

(A) :  $100 = (10)^2$

(B) :  $125 = (5)^3$

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

(D) :  $216 = (6)^3$

Thus, **100** is the odd one out.

=> Ans - (A)

**Question 21**

A VXB

B PSV

C DGJ

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D FIL

Answer: A

Explanation:

(A) : V (+2 letters) = X (+4 letters) = B

(B) : P (+3 letters) = S (+3 letters) = V

(C) : D (+3 letters) = G (+3 letters) = J

(D) : F (+3 letters) = I (+3 letters) = L

=> Ans - (A)

Instructions

A series is given, with one/two term missing choose the correct alternative from the given ones that will complete the series.

Question 22

6, 2, 9, 4, 12, ?

A 6, 15

B 4, 13

C 8, 24

D 13, 15

Answer: A

Explanation:

Series : 6, 2, 9, 4, 12, ?

It is a combination of 2 alternate series.

Even series (Multiples of 2) = 2, 4, 6

Odd series (Multiples of 3) = 6, 9, 12, 15

Thus, missing term = 6, 15

=> Ans - (A)

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Question 23

A, D, H, M, S, ?

A T

B W

C X

D Z

Answer: D

Explanation:

The pattern followed is :

A + 3 = D

D + 4 = H

H + 5 = M

$$M + 6 = S$$

$$S + 7 = Z$$

=> Ans - (D)

**Question 24**

**0, 3, 8, 15, ?**

**A** 23

**B** 26

**C** 24

**D** 25

**Answer: C**

**Explanation:**

The pattern followed is :

$$(1)^2 - 1 = 0$$

$$(2)^2 - 1 = 3$$

$$(3)^2 - 1 = 8$$

$$(4)^2 - 1 = 15$$

$$(5)^2 - 1 = 24$$

=> Ans - (C)

**Question 25**

**A C E Z X V G I K T R P ?**

**A** M

**B** N

**C** O

**D** L

**Answer: A**

**Explanation:**

The above series is a combination of 2 alternate series (consisting 3 letters).

Odd series (+2 letters) : A C E , G I K , M O Q

Even series (-2 letters) : Z X V , T R P , N L J

Thus, the next letter is = **M**

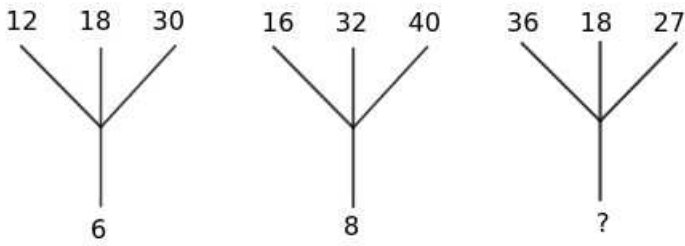
=> Ans - (A)

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**Instructions**

Select the missing number from the given responses.

Question 26



- A 12
- B 8
- C 6
- D 9

Answer: D

**Explanation:**

The logic here is

6 is the HCF of 12, 18, 30

8 is the HCF of 16, 32, 40

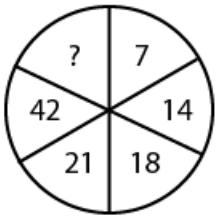
The bottom number is the HCF of the top numbers.

Similarly, the HCF of 36, 18, 27 is 9.

∴ The required number = 9

Hence, the correct answer is Option D

Question 27



- A 58
- B 45
- C 54
- D 42

Answer: C

**Explanation:**

The numbers on the vertical left side are thrice of numbers diagonally opposite to them.

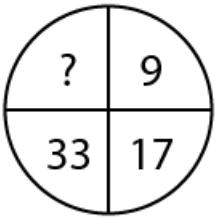
Eg :-  $7 \times 3 = 21$

and  $14 \times 3 = 42$

Similarly,  $18 \times 3 = 54$

=> Ans - (C)

Question 28



- A 60
- B 65
- C 68
- D 55

Answer: B

**Explanation:**

Starting from 9 and moving clockwise direction, the pattern followed is :

$$(9 \times 2) - 1 = 17$$

$$(17 \times 2) - 1 = 33$$

$$(33 \times 2) - 1 = 65$$

=> Ans - (B)

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**Instructions**

For the following questions answer them individually

**Question 29**

In a line, Naresh is 17<sup>th</sup> from the left & 22<sup>nd</sup> from the right How many students are there in the line ?

- A 40
- B 38
- C 39
- D 37

Answer: B

**Explanation:**

Naresh's position from left = 17th

His position from right = 22nd

$$\Rightarrow \text{Total students} = (17 + 22) - 1 = 39 - 1 = 38$$

=> Ans - (B)

**Question 30**

Same equations have been solved on the basis of certain system. Find the correct answer for the unsolved equations on that basis ?

If  $72 \times 19 = 23$ ,  $13 \times 48 = 35$  and  $16 \times 43 = 18$  then  $39 \times 22 = ?$

- A 27

B 51

C 31

D 21

Answer: C

Explanation:

For the two digits of the two digit numbers, the pattern followed is:  $(ab \times cd) = (a \times b) + (c \times d)$

Eg :-  $72 \times 19 = (7 \times 2) + (1 \times 9) = 14 + 9 = 23$

and  $13 \times 48 = (1 \times 3) + (4 \times 8) = 3 + 32 = 35$

Similarly,  $39 \times 22 = (3 \times 9) + (2 \times 2) = 27 + 4 = 31$

=> Ans - (C)

Question 31

Which one set of letters when sequentially placed as the gups in the given letter series shall compare it ?

ab\_cba\_bcc\_aabccb\_ \_bccba

A abcac

B cceab

C cabaa

D abcab

Answer: C

Explanation:

Expression : ab\_cba\_bcc\_aabccb\_ \_bccba

The pattern followed is that in set of 3, the terms 'abc' and 'cba' are alternatively repeated.

= abc cba abc cba abc cba abc cba

=> Ans - (C)

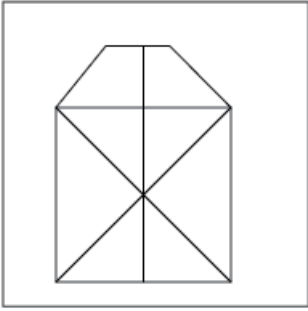
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Question 32

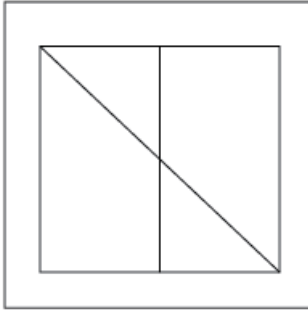
From the given answer figures, select the one in which the question figure is hidden/embedded



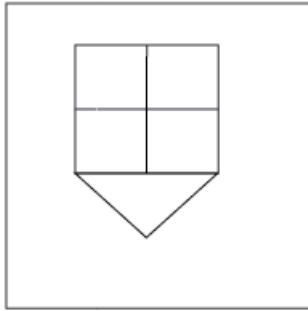
A



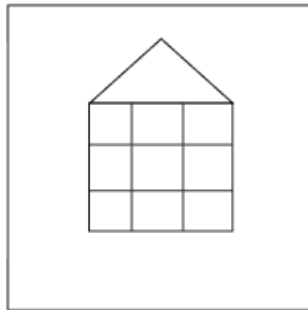
B



C



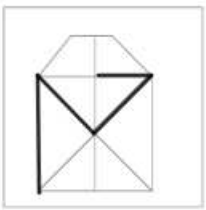
D



**Answer: A**

**Explanation:**

The given figure is embedded in the first figure as shown below



Hence, the correct answer is Option A

**Question 33**

If LISTEN is coded as 593417 then SILENT is coded as

A 591734

B 391754

C 591743

D 395174

Answer: D

**Explanation:**

Codes for each letter is given :

S -> 3

I -> 9

L -> 5

E -> 1

N -> 7

T -> 4

Thus, SILENT : 395174

=> Ans - (D)

**Question 34**

What is the best way to order the progression in hardware ?

1. Silicon chips

2. Transistors

3. Vacuum tube

4. Integrated circuits

A 3, 4, 1, 2

B 4, 2, 3, 1

C 4, 1, 3, 2

D 3, 2, 4, 1

Answer: D

**Explanation:**

Order of progression in hardware is :

= Vacuum tube -> Transistors -> Integrated circuits -> Silicon chips

≡ 3, 2, 4, 1

=> Ans - (D)

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**Question 35**

Of the 5 town A, B, C, D and E situated close to each other. A is to the west of B, C is to the south of A, E is to the north of B and D is to the east of E. Then C is in which direction was respect to D ?

A South-West

B North-West

C North-East

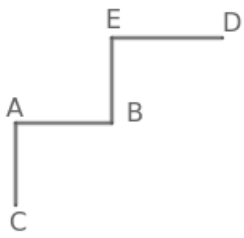
D South-East

Answer: A

**Explanation:**

According to the problem,

A, B, C, D and E are situated as shown below



∴ C is to the South-West of D

Hence, the correct answer is Option A

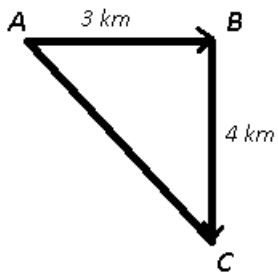
**Question 36**

Karthik travelled 3 km east, then took a right and travelled 4kms. How far is he from starting point ?

- A 12 kms
- B 3 kms
- C 7 Kms
- D 5 kms

**Answer:** D

**Explanation:**



Let Karthik started from point A and travelled 3 km east, then took a right turn from B and travelled 4kms to stop at point C.

$$\Rightarrow (AC)^2 = (AB)^2 + (BC)^2$$

$$\Rightarrow (AC)^2 = (3)^2 + (4)^2$$

$$\Rightarrow (AC)^2 = 9 + 16 = 25$$

$$\Rightarrow AC = \sqrt{25} = 5 \text{ km}$$

⇒ Ans - (D)

**Question 37**

Find the number of triangles in the following figure:



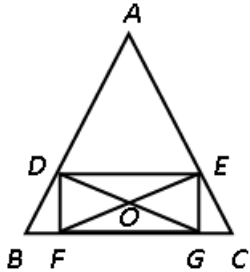
- A 8



- B 14
- C 10
- D 12

Answer: B

Explanation:



Small triangles = (ADE, BDF, CGE), (DOF, FOG, GOE, DOE) = 7

Triangles consisting 2 triangles = DFG, EFG, DEF, DEG = 4

Triangles consisting 3 triangles = CEF, BDG = 2

Large triangle = ABC = 1

Total number of triangles = 7 + 4 + 2 + 1 = 14

=> Ans - (B)

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**Question 38**

Find out the set of numbers amongst: the four sets of numbers given in the alternative which is most like the set given in the question.

(12, 24, 144)

- A (15, 45, 90)
- B (10, 25, 100)
- C (14, 28, 112)
- D (13, 26, 169)

Answer: D

Explanation:

The pattern followed is =  $(n, 2n, n^2)$

Eg :- 12,  $(2 \times 12)$ ,  $(12)^2 = 12, 24, 144$

Similarly, 13,  $(2 \times 13)$ ,  $(13)^2 = 13, 26, 169$

=> Ans - (D)

**Instructions**

One/two statement are given, each followed by two conclusion/assumption, I and II you have to consider the statement to be true even if they seem to be at variance from commonly known facts you have to decide which of the given conclusion/assumptions. If any follows from the given statements

**Question 39**

**Statement:**

Continuous training is essential for all employees to increase their productivity

**Assumptions:**

1. Training is an essential component for productivity
2. Profitability & productivity are supplementary to each other

- A Only assumption II is implicit
- B Neither assumption I nor II are implicit
- C Both assumption I and II are implicit
- D Assumption I is implicit

**Answer: C**

**Explanation:**

The given statement indicates that to increase the productivity, continuous training is essential for employees. Thus, assumption I is implicit. Also, statement II is implicit as profitability & productivity are supplementary to each other. It depends upon other factors also.

Thus, both assumption I and II are implicit.

=> Ans - (C)

**Question 40**

**Statement:**

Travelling by Metro in Delhi is more convenient and economical.

**Assumption:**

1. Other modes of transport are not available
2. Metro services are reasonably good

- A Only Assumption I is implicit
- B Neither I nor II are implicit
- C Both I and II are implicit
- D Only Assumption II is implicit

**Answer: D**

**Explanation:**

The statement indicates that Delhi metro is a convenient and economical means of transport. Assumption I is not implicit as there are also other modes of transport available. Assumption II is implicit as metro services are good.

=> Ans - (D)

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**Instructions**

For the following questions answer them individually

**Question 41**

In a class of 45, Neha's rank is 15<sup>th</sup> from first. What is her rank from the last ?

- A 30
- B 32
- C 33

D 31

Answer: D

**Explanation:**

Total students = 45

Neha's rank from start = 15th

=> Her rank from last =  $(45 - 15) + 1 = 30 + 1 = 31$

=> Ans - (D)

**Question 42**

If + means  $\div$ ,  $\div$  means  $\times$ , and  $\times$  means +, then the following will be:

$64 + 8 \times 32 \div 4$

A 128

B 160

C 136

D 144

Answer: C

**Explanation:**

Expression :  $64 + 8 \times 32 \div 4$

$\equiv 64 \div 8 + 32 \times 4$

$= \frac{64}{8} + (32 \times 4)$

$= 8 + 128 = 136$

=> Ans - (C)

**Question 43**

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 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 e.g. 'A' can be represented by 03, 14 etc., and 12 can be represented by 56, 65 etc., similarly, you have to identify the set for the word 'BRIDE'.

Matrix - I					
	0	1	2	3	4
0	E	S	P	A	R
1	R	E	S	P	A
2	A	R	E	S	P
3	P	A	R	E	S
4	S	P	A	R	E

Matrix - II					
	5	6	7	8	9
5	B	U	I	L	D
6	U	I	L	D	B
7	I	L	D	B	U
8	L	D	B	U	I
9	D	B	U	I	L

A 96, 03, 75, 67, 22

B 55, 57, 21, 22, 86

C 96, 03, 75, 85, 22

D 55, 21, 57, 86, 22

Answer: D

**Explanation:**

(A) : 96, 03, 75, 67, 22 = BAILE

(B) : 55, 57, 21, 22, 86 = BIRED

(C) : 96, 03, 75, 85, 22 = BAILE

(D) : 55, 21, 57, 86, 22 = **BRIDE**

=> Ans - (D)

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### Instructions

Arrange the following words as per order in the dictionary.

#### Question 44

1. Vorscions
2. Voucher
3. Vortex
4. Voluntary

A 2, 4, 1, 3

B 4, 1, 3, 2

C 1, 4, 2, 3

D 3, 1, 4, 2

Answer: B

#### Explanation:

As per the order of dictionary :

= Voluntary -> Vorscions -> Vortex -> Voucher

≡ 4, 1, 3, 2

=> Ans - (B)

#### Question 45

1. Absolute
2. Abrasive
3. Absorption
4. Abundance
5. Abiogenesis

A 2, 5, 1, 3, 4

B 3, 4, 5, 2, 1

C 5, 2, 3, 1, 4

D 5, 2, 1, 3, 4

Answer: D

#### Explanation:

As per the order of dictionary :

= Abiogenesis -> Abrasive -> Absolute -> Absorption -> Abundance

≡ 5, 2, 1, 3, 4

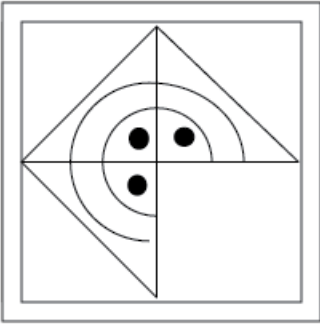
=> Ans - (D)

### Instructions

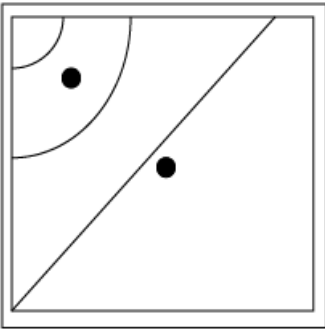
For the following questions answer them individually

**Question 46**

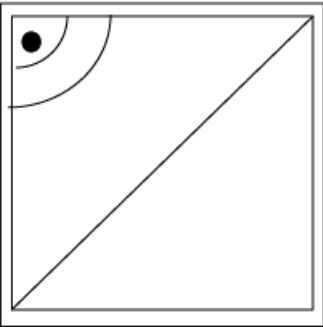
Which answer figure will complete the pattern in the question figure ?



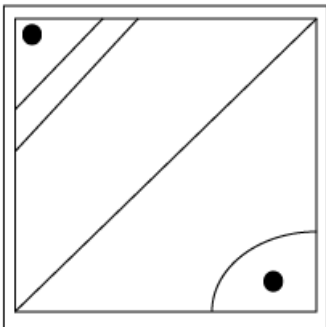
A



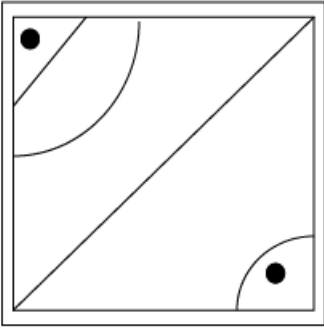
B



C



D



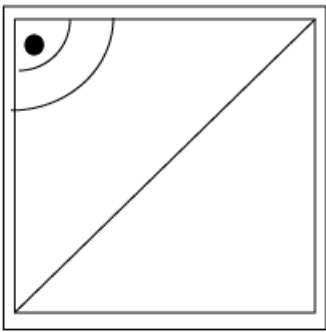
Answer: B

**Explanation:**

The required figure will be similar to the remaining three parts of the question figure.

In the required figure, the black dot will be towards the centre followed by two arcs and diagonal line for the required square part.

∴ The figure that will complete the pattern in the question figure is



Hence, the correct answer is Option B

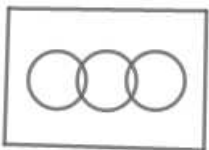
## SSC CHSL Free Mock Test

**Question 47**

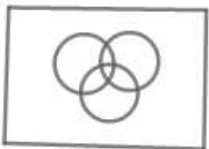
Identify the diagram that best represents the relationship among classes given below:

Athletes, Sprinters, Marathon runner

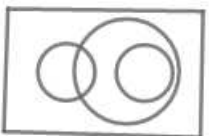
A

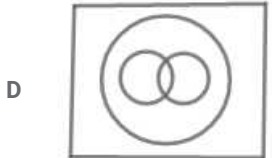


B



C





Answer: D

**Explanation:**

All Sprinters and Marathon runner are Athletes. Some Sprinters can be Marathon runner.

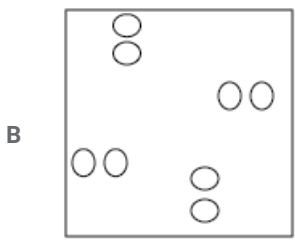
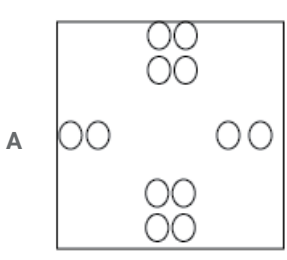
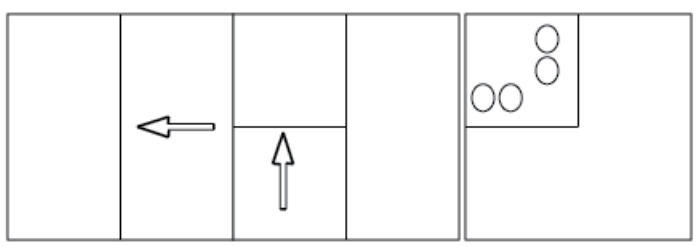
∴ The diagram that best represents the relationship between the given classes is

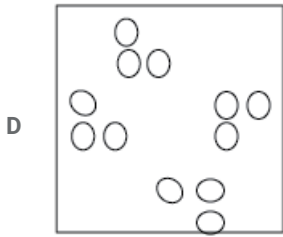
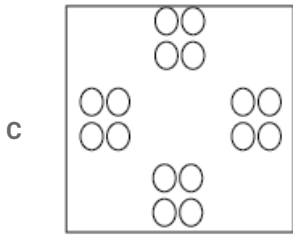


Hence, the correct answer is Option D

**Question 48**

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





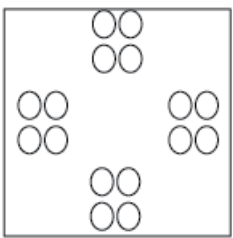
Answer: C

**Explanation:**

When the paper is unfolded first to the bottom, two circles each on the left and bottom will appear similarly.

When the paper is unfolded again to the right, two circles each on the top and bottom will appear and four circles on the right will appear similarly.

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



Hence, the correct answer is Option C

**Question 49**

Which one of the following is water image of "COMMISSION"

A NOISSIWWOC

B COMMI22ION

C COWWI22ION

D NOI22IMMOC

Answer: C

**Explanation:**

In the water image, the word will appear upside down, i.e. the first letter of the word will appear first. Thus first and last options are eliminated.

Also, in the second option, the letters are not reversed, thus third option is the correct mirror image.

=> Ans - (C)



**Question 50**

Find the wrong number in the given series ?

15, 28, 30, 39, 48

A 28

B 15

C 30

D 39

Answer: E

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**English**

**Instructions**

Out of the four alternatives, choose the one which can be substituted for the given words/sentences and indicate it by blackening the appropriate circle in the Answer Sheet.

**Question 51**

Submission to all that happens as inevitable:

A Fatalism

B Pragmatism

C Pessimism

D Superstition

Answer: A

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

**Question 52**

A person who is easily deceived or tricked.

A Trickster

B Trouble

C Tangible

D Gullible

Answer: D

**Question 53**

Lasting for a very short time.

A Friable

B Ephemeral

C Metronomic

D Eternal

Answer: B

**Question 54**

**Rules governing socially acceptable, behaviour**

A Etiquette

B Politeness

C Formality

D Behaviour

Answer: A

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

**Instructions**

A sentence has been given in Direct/Indirect. Out of the four alternative suggested, select the one which best expresses the same sentence in Indirect/Direct and mark your answer in the Answer Sheet.

**Question 55**

I said to him, "Do you definitely need the suit next week?"

A I asked him if he definitely needed the suit the following week

B I asked him if he needed the suit the next week

C I asked him if he definitely need the suit the following week

D I asked him if definitely he needed the suit the next week.

Answer: A

**Question 56**

Meera's mother told her not to forget to buy the milk.

A Meera's mother reminded her, "Don't forget to buy the milk"

B Meera's mother said to her, "You must buy the milk"

C Meera was told by her mother "Buy the milk"

D Meera's mother said "Remember to buy the milk"

Answer: A

**Instructions**

In the following passage some of the words have been left out. Read the passage carefully and choose the correct answer to each question out of the four alternative and fill in the blanks

A though we can \_\_\_\_ (I) \_\_\_\_ the \_\_\_\_ (II) \_\_\_\_ bodies of our solar system \_\_\_\_ (III) \_\_\_\_ a telescope, it is only \_\_\_\_ (IV) \_\_\_\_ who can \_\_\_\_ (V) \_\_\_\_ the depths of outer space. It is reported that they have seen \_\_\_\_ (VI) \_\_\_\_ galaxies, stars taking \_\_\_\_ (VII) \_\_\_\_ and \_\_\_\_ (VIII) \_\_\_\_ black holes'. They say that the deeper they look \_\_\_\_ (IX) \_\_\_\_ the universe, the more they know \_\_\_\_ (X) \_\_\_\_ the universe originated.

**Question 57**

(I)

- A (I) reach
- B (I) observe
- C (I) look
- D (I) find

**Answer: E**

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**Question 58**

(II)

- A (II) heaven
- B (II) heavy
- C (II) heavier
- D (II) heavenly

**Answer: E**

**Question 59**

(III)

- A (III) by
- B (III) through
- C (III) with
- D (III) at

**Answer: E**

**Question 60**

(IV)

- A (IV) astronomers
- B (IV) astronomy
- C (IV) astrology
- D (IV) astrologers

**Answer: E**

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**Question 61**

(V)

- A (V) viewed
- B (V) views
- C (V) overview
- D (V) view

**Answer: E**

**Question 62**

(VI)

- A (VI) shine
- B (VI) stunning
- C (VI) stunned
- D (VI) stun

**Answer: E**

**Question 63**

(VII)

- A (VII) born
- B (VII) borne
- C (VII) birth
- D (VII) berth

**Answer: E**

**Question 64**

(VIII)

- A (VIII) die
- B (VIII) died
- C (VIII) dyeing
- D (VIII) dying

**Answer: E**

**Question 65**

(IX)

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- A (IX) into
- B (IX) at
- C (IX) through
- D (IX) on

Answer: E

**Question 66**

(X)

- A (X) why
- B (X) where
- C (X) how
- D (X) what

Answer: E

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

**Instructions**

Four alternatives are given for the Idiom/Phrase underlined. Choose the alternative which best expresses the meaning of the Idiom/Phrase and mark it in the Answer Sheet.

**Question 67**

A Sacred Cow.

- A a person never to be criticized
- B a saintly person
- C a very religious person
- D a helpful person

Answer: E

**Question 68**

To shun evil company

- A To kick out evil company
- B To give up evil company
- C To put off evil company
- D To let close evil company

Answer: E

**Question 69**

He has made a dog's breakfast of these accounts

- A A total mess
- B A breakfast for the dogs
- C An accurate
- D A breakfast being served by the dogs

Answer: E

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### Question 70

You will be reminded of the seamy side of life if you visit the slum tenements

- A the softer aspects
- B the unpleasant aspects
- C the pleasanter aspects
- D the gentler aspects

Answer: E

### Instructions

Sentences are given with blanks to be filled in with an appropriate word(s). Four alternative are suggested for each question. Choose the correct alternative out of the four and indicate it by blackening the appropriate circle in the Answer Sheet.

### Question 71

This house \_\_\_\_\_ ten rooms.

- A consisted with
- B consist of
- C consists of
- D Consists by

Answer: E

### Question 72

Have you even \_\_\_\_\_ the wolf cry ?

- A head
- B Board of
- C hear out
- D hear

Answer: E

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**Question 73**

Afreen\_\_\_\_\_ that the weather was very pleasant that day

- A suggested
- B argued
- C announced
- D remarked

**Answer: E**

**Question 74**

Mrs Hall was prepared to excuse the scientist's habit's and \_\_ tempere.

- A Irritate
- B Irate
- C Irritable
- D irritation

**Answer: C**

**Instructions**

Choose the word opposite in meaning to the given word and mark it in the Answer Sheet.

**Question 75**

**Illicit**

- A legal
- B correct
- C approved
- D noble

**Answer: A**

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**Question 76**

**Demand**

- A supply
- B clam
- C request
- D partition

**Answer: E**

**Question 77**

**Descent**

- A diseem
- B ascent
- C dissent
- D assent

**Answer: E**

**Question 78**

**Notorious**

- A prominent
- B infamous
- C honourable
- D reputed

**Answer: E**

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**Instructions**

Four words are given in each question. Out of which only one words is correctly spelt. Find the correctly spelt word and mark your answer in the Answer.

**Question 79**

- A prediliction
- B predilection
- C predalection
- D pridilection

**Answer: B**

**Question 80**

- A accumulate
- B acummulate
- C accumullate
- D accummulate

**Answer: A**

**Question 81**

- A restaurent



- B restuarant
- C restuarent
- D restaurant

Answer: D

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### Question 82

- A manoeuvre
- B manouvre
- C manuvere
- D mamouevr

Answer: A

### Instructions

A sentence a part of the sentence is underlined part which may improve the sentence choose the correct alternative in case no improvement is needed choose 'No improvement'

### Question 83

Rani has completed her graduation from a reputed university last year.

- A completed
- B No improvement
- C was completed
- D had been completed

Answer: A

### Question 84

The terrorist as well as his accomplices was killed in the encounter.

- A was being killed
- B were killed
- C No improvement
- D was

Answer: C

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### Question 85

The Councillor behaves as if the is the Chief Minister.

- A has been

- B were
- C No improvement
- D was

Answer: B

**Question 86**

in spite of age be is my senior

- A He is my senior, in keeping with his age
- B He is my senior in regard of his age
- C No Improvement
- D in respect of age, he is my senior

Answer: D

**Instructions**

The 1st and the last part of the sentence are numbered 1 and 6. The rest of the sentence is split is into four parts and named P, Q, R & S. These four parts are not given in their proper order. Read the sentence and find out which of the four combinations is correct. Then find the correct answer and indicate it in the Answer Sheet.

**Question 87**

- 1. Everyone
- P. the case calmly
- Q. acknowledges
- R. who knows you
- S. when he considers
- 6. That you have been wronged.

- A PRQS
- B QRSP
- C SRPQ
- D RQSP

Answer: D

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**Question 88**

- I. It is those good works
- P. that lead to peak performance
- Q. which we do with passion
- R. our understanding of our purpose
- S. and which come to reflect
- 6. In this life

- A PRQS
- B QPSR
- C QSRP

D SRQP

Answer: B

**Question 89**

I. I am a self-confessed technophobe

P. I believe that computer is responsible for the dying of the art of conversation

Q. I have come to hate technology and the way it dominates every aspect of life

R. For many, it has become the most important object both in home and at the workplace.

S. One of the worst offenders is the computer

6. Small wonder then, that I have managed to keep this ubiquitous machine out of my home.

A PQRS

B QSRP

C RPSQ

D SRPQ

Answer: B

**Question 90**

I. Moisturisers for the face

P. as only unus may block

Q. in greater concentration on the face

R. the oil glands found

S. should be chosen carefully

6. And cause pimple aone to break out

A SRPQ

B SQPR

C SPRQ

D SPQR

Answer: C

## SSC CGL Previous Papers (DOWNLOAD PDF)

**Instructions**

Some parts of the sentences have errors and some are correct. Find out which part of a sentence has an error and blacken the circle corresponding to the appropriate correct option. If a sentence is free from error blacken the circle corresponding to No Error; option in the Answer Sheet.

**Question 91**

Scientist now hope that cloning can successfully be conducted in human beings in the near future.

A Human beings in the near future

B can successfully be conducted in

C Scientist now hope that cloning

D No Error

Answer: C

**Question 92**

When one takes great risks they must be prepared for great losses

- A When one takes great risks
- B No Error
- C they must be prepared
- D for great losses.

**Answer: C**

**Question 93**

What delicious flavor these mangoes have !

- A have !
- B What delicious
- C flavour these mangnes
- D No Error

**Answer: D**

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**Question 94**

They had to put of the garden party because of the heavy rain

- A because of the heavy rain
- B No Error
- C they had to
- D put of the garden party

**Answer: D**

**Instructions**

Out of the four alternatives, choose the one which best expresses the meaning of the given word and mark it in the Answer Sheet.

**Question 95**

**Vocation**

- A virtue
- B holiday
- C break up
- D occupation

**Answer: E**

**Question 96**

**Limpid**

- A ruffled
- B crippled
- C lopsided
- D clear

**Answer: E**

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

**Question 97**

**Merge**

- A blend
- B meet
- C mixture
- D contact

**Answer: E**

**Question 98**

**Gourmet**

- A fussy
- B constant
- C gastronome
- D praise

**Answer: E**

**Instructions**

A sentence has been given in Active/Passive Voice. Out of the four alternatives suggested, select the one which best expresses the same sentence in Passive/Active Voice and mark your answer in the Answer Sheet.

**Question 99**

**Please close the door.**

- A Please be the door closed by you.
- B Let the door be closed by you.
- C You please close the door
- D You close the door yourself

**Answer: E**

Question 100

We must take care of our parents

- A Our parents will be taken care of by us
- B Our parents are taken care of by us
- C Our parents must be cared for by us
- D Our parents had been taken care of by us

Answer: E

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Quant

Instructions

For the following questions answer them individually

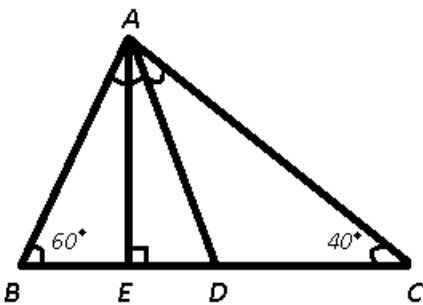
Question 101

In  $\triangle ABC$ ,  $\angle B = 60^\circ$ , and  $\angle C = 40^\circ$ , AD and AE are respectively the bisector of  $\angle A$  and perpendicular on BC. The measure of  $\angle EAD$  is:

- A  $9^\circ$
- B  $11^\circ$
- C  $12^\circ$
- D  $10^\circ$

Answer: D

Explanation:



Given : AD is angle bisector of  $\angle A$  and AE is perpendicular to BC.

To find :  $\angle EAD = ?$

In  $\triangle ABC$ ,

$$\Rightarrow \angle A + \angle B + \angle C = 180^\circ$$

$$\Rightarrow \angle A + 60^\circ + 40^\circ = 180^\circ$$

$$\Rightarrow \angle A = 180^\circ - 100^\circ = 80^\circ$$

$$\therefore \angle BAD = \angle CAD$$

$$\Rightarrow \angle CAD = \frac{80}{2} = 40^\circ$$

Using external angle property,  $\Rightarrow \angle ADE = \angle CAD + \angle C$

$$\Rightarrow \angle ADE = 40^\circ + 40^\circ = 80^\circ$$

$\therefore$  In  $\triangle EAD$ ,

$$\Rightarrow \angle EAD + \angle ADE + \angle DEA = 180^\circ$$

$$\Rightarrow \angle EAD + 80^\circ + 90^\circ = 180^\circ$$

$$\Rightarrow \angle EAD = 180^\circ - 170^\circ = 10^\circ$$

$\Rightarrow$  Ans - (D)

## Daily Free SSC Practice Set

### Question 102

The average of 13 results is 70. The average of first seven is 65 and that of the last seven is 75, the seventh result is:

- A 70
- B 70.5
- C 68
- D 67

Answer: A

#### Explanation:

Average of 13 results = 70

$$\Rightarrow \text{Sum of 13 results} = 13 \times 70 = 910$$

$$\text{Similarly, sum of first seven} = 7 \times 65 = 455$$

$$\text{And sum of last seven} = 7 \times 75 = 525$$

$$\therefore \text{Seventh result} = (455 + 525) - 910 = 70$$

$\Rightarrow$  Ans - (A)

### Question 103

The contractor was engaged to construct a road in 16 days. After working for 12 days with 20 labours it was found that only  $\frac{5}{8}$  of the road had been constructed. To complete the work in stipulated the number of extra labours required is:

- A 12
- B 10
- C 18
- D 16

Answer: D

#### Explanation:

20 workers will do  $\frac{5}{8}$  work in 12 days

$$\Rightarrow \text{Remaining work} = 1 - \frac{5}{8} = \frac{3}{8}$$

Remaining time =  $16 - 12 = 4$  days

Let number of extra labours required =  $x$

Using,  $\frac{M_1 D_1}{W_1} = \frac{M_2 D_2}{W_2}$

$$\Rightarrow \frac{20 \times 12}{8} = \frac{(20+x) \times 4}{8}$$

$$\Rightarrow 20 \times 12 \times 3 = (20 + x) \times 4 \times 5$$

$$\Rightarrow 20 + x = 36$$

$$\Rightarrow x = 36 - 20 = 16$$

$\Rightarrow$  Ans - (D)

#### Question 104

If  $p = -0.12$ ,  $q = -0.01$  &  $r = -0.015$ , then the correct relationship among the three is:

A  $q > p > r$

B  $p > q > r$

C  $p > r > q$

D  $p < r < q$

Answer: D

Explanation:

Given  $p = -0.120$ ,  $q = -0.010$ ,  $r = -0.015$

$\therefore p < r < q$

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

#### Instructions

The Expenditure of a family in a month is represented by a Pie-chart. Read it and answer the questions.



#### Question 105

The ratio of the amount spent on food and clothes ?

A 2 : 5

B 4 : 1

C 4 : 5

D 5 : 1

Answer: D



**Explanation:**

Central angle for amount spent on food =  $150^\circ$

Central angle for amount spent on clothes =  $30^\circ$

$$\Rightarrow \text{Required ratio} = \frac{150}{30} = 5 : 1$$

$\Rightarrow$  Ans - (D)

**Question 106**

The % money spent on food compared to house rent is by ?

- A 12%
- B None of the options
- C 25%
- D 50%

**Answer: C**

**Explanation:**

Central angle for amount spent on food =  $150^\circ$

Central angle for amount spent on rent =  $120^\circ$

$$\Rightarrow \text{Required \%} = \frac{(150-120)}{120} \times 100$$

$$= \frac{1}{4} \times 100 = 25\%$$

$\Rightarrow$  Ans - (C)

**Question 107**

The total money spent on clothes and miscellaneous items are

- A ₹3600
- B ₹900
- C ₹2000
- D Cannot be determined

**Answer: D**

**Explanation:**

Total expenditure of the family is not given, thus we cannot determine the total money spent on clothes and miscellaneous items.

$\Rightarrow$  Ans - (D)

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**Question 108**

If the total amount spent is ₹7,200. Find the amount spent on food ?

- A ₹3000
- B ₹4500
- C ₹6000
- D ₹1500

**Answer: A**

**Explanation:**

Total expenditure = Rs. 7200

Central angle for amount spent on food =  $150^\circ$

$$\Rightarrow \text{Amount spent on food} = \frac{150}{360} \times 7200$$

$$= 150 \times 20 = \text{Rs. } 3000$$

$\Rightarrow$  Ans - (A)

**Instructions**

For the following questions answer them individually

**Question 109**

If  $a = \frac{\sqrt{3}-\sqrt{2}}{\sqrt{3}+\sqrt{2}}$  and  $b = \frac{\sqrt{3}+\sqrt{2}}{\sqrt{3}-\sqrt{2}}$ , then the value of  $\frac{a^2}{b} + \frac{b^2}{a}$  is:

A 98

B 93

C 103

D 102

**Answer: A**

**Explanation:**

$$\text{Given : } a = \frac{\sqrt{3}-\sqrt{2}}{\sqrt{3}+\sqrt{2}}$$

Rationalizing the denominator, we get :

$$\Rightarrow a = \frac{\sqrt{3}-\sqrt{2}}{\sqrt{3}+\sqrt{2}} \times \frac{(\sqrt{3}-\sqrt{2})}{(\sqrt{3}-\sqrt{2})}$$

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

$$\Rightarrow a = \frac{3+2-2(\sqrt{3})(\sqrt{2})}{(3-2)}$$

$$\Rightarrow a = 5 - 2\sqrt{6}$$

$$\text{Similarly, } b = 5 + 2\sqrt{6}$$

To find :  $a^2 + b^2$

$$= (5 - 2\sqrt{6})^2 + (5 + 2\sqrt{6})^2$$

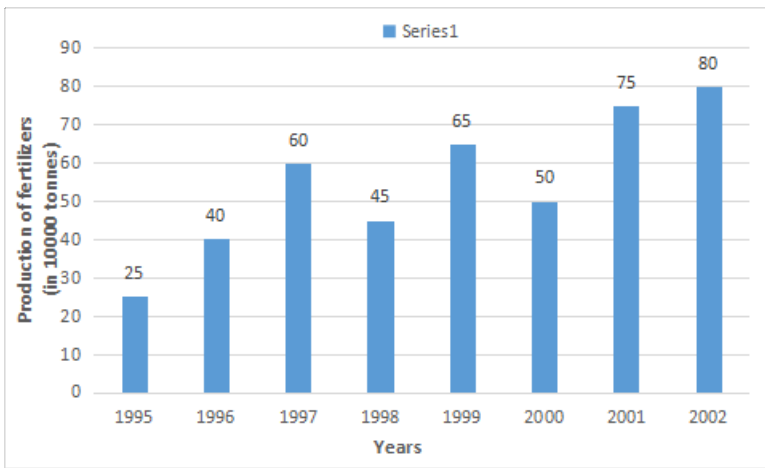
$$= (25 + 24 - 20\sqrt{6}) + (25 + 24 + 20\sqrt{6})$$

$$= 49 + 49 = 98$$

$\Rightarrow$  Ans - (A)

**Instructions**

Study the following bar graph and answer the questions.



**Question 110**

The number of years, the production of fertilizers was more than average production of the given years is.

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

**Answer: D**

**Explanation:**

Total production of fertilizers (in 10,000 tonnes) in the given years is :

$$= 25 + 40 + 60 + 45 + 65 + 50 + 75 + 80 = 440$$

$$\Rightarrow \text{Average production} = \frac{440}{8} = 55$$

$\therefore$  The number of years in which the production of fertilizers was more than average production of the given years = 1997, 1999, 2001 and 2002

$\Rightarrow$  Ans - (D)

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**Question 111**

The percentage increase in production of fertilizers in 2002 compared in that in 1995 is

- A 200%
- B 180%
- C 220%
- D 240%

**Answer: C**

**Explanation:**

Production of fertilizers in 1995 (in 10,000 tonnes) = 25

Production of fertilizers in 2002 (in 10,000 tonnes) = 80

$$\Rightarrow \text{Percentage increase} = \frac{(80-25)}{25} \times 100$$

$$= 55 \times 4 = 220\%$$

=> Ans - (C)

**Question 112**

The percentage decline in the production of fertilizers from 1997 to 1998 is

- A 27.5%
- B 25%
- C 26%
- D 23%

**Answer: B**

**Explanation:**

Production of fertilizers in 1997 (in 10,000 tonnes) = 60

Production of fertilizers in 1998 (in 10,000 tonnes) = 45

$$\Rightarrow \text{Percentage decline} = \frac{(60-45)}{60} \times 100$$

$$= \frac{1}{4} \times 100 = 25\%$$

=> Ans - (B)

**Question 113**

The average production of 1996 and 1997 is exactly equal to the average production of the years ?

- A 2000 and 2001
- B 1999 and 2000
- C 1995 and 2001
- D 1995 and 1999

**Answer: C**

**Explanation:**

If average production is equal, then sum of production will also be equal.

Thus, sum of production of fertilizers in 1996 and 1997 (in 10,000 tonnes) = 40 + 60 = 100

Also, sum of production of fertilizers in 1995 and 2001 (in 10,000 tonnes) = 25 + 75 = 100

=> Ans - (C)

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**Question 114**

The percentage increase in production as compared to previous year is maximum in year:

- A 1999
- B 1996
- C 1997
- D 2002

**Answer: B**

**Explanation:**

Percentage increase in production as compared to previous year :

$$(A) : 1999 = \frac{(65-45)}{45} \times 100 = 44.4\%$$

$$(B) : 1996 = \frac{(40-25)}{25} \times 100 = 60\% \quad \text{[MAX]}$$

$$(C) : 1997 = \frac{(60-40)}{40} \times 100 = 50\%$$

$$(D) : 2002 = \frac{(80-75)}{75} \times 100 = 20\%$$

=> Ans - (B)

**Instructions**

For the following questions answer them individually

**Question 115**

If for non-zero  $x$ ,  $x^2 - 4x - 1 = 0$  the value of  $x^2 + \frac{1}{x^2}$  is:

A 10

B 4

C 12

D 18

**Answer: D**

**Explanation:**

Given :  $x^2 - 4x - 1 = 0$

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

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

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

Squaring both sides, we get :

$$\Rightarrow \left(x - \frac{1}{x}\right)^2 = (4)^2$$

$$\Rightarrow x^2 + \frac{1}{x^2} - 2\left(x\right)\left(\frac{1}{x}\right) = 16$$

$$\Rightarrow x^2 + \frac{1}{x^2} = 16 + 2 = 18$$

=> Ans - (D)

**Question 116**

The length of two parallel sides of a trapezium are 15 cm and 20 cm If its area is 175 sq.cm, then its height is :

A 10 cm

B 15 cm

C 25 cm

D 20 cm

**Answer: A**

**Explanation:**

Sum of the two parallel sides of the trapezium =  $15 + 20 = 35$  cm

Let its height =  $h$  cm

=> Area of trapezium =  $\frac{1}{2} \times (\text{sum of parallel sides}) \times \text{height}$

$$\Rightarrow \frac{1}{2} \times 35 \times h = 175$$

$$\Rightarrow h = \frac{175}{35} \times 2$$

$$\Rightarrow h = 5 \times 2 = 10 \text{ cm}$$

=> Ans - (A)

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### Question 117

A hemispherical bowl has internal radius of 6 cm. The internal surface area would be: (take  $\pi = 3.14$ )

A  $400\text{cm}^2$

B  $289.75\text{cm}^2$

C  $225\text{cm}^2$

D  $226.08\text{cm}^2$

Answer: D

#### Explanation:

Radius of bowl = 6 cm

Surface area of hemisphere =  $3\pi r^2$

$$= 2 \times 3.14 \times (6)^2$$

$$= 2 \times 113.04 = 226.08 \text{ cm}^2$$

=> Ans - (D)

### Question 118

A train 156 m long passes a km stone in 30 seconds and another train of the same length travelling in opposite direction in 10 seconds. The speed of the second train is

A  $93.6 \frac{\text{km}}{\text{hr}}$

B  $26 \frac{\text{km}}{\text{hr}}$

C  $90 \frac{\text{km}}{\text{hr}}$

D  $75 \frac{\text{km}}{\text{hr}}$

Answer: A

#### Explanation:

Length of train = 156 m and time taken = 30 seconds

$$\Rightarrow \text{Speed of first train} = \frac{156}{30} = 5.2 \text{ m/s}$$

Let speed of second train (length = 156 m) =  $x$  m/s

$$\text{According to ques, } \Rightarrow (x + 5.2) = \frac{156+156}{10}$$

$$\Rightarrow (x + 5.2) = 31.2$$

$$\Rightarrow x = 31.2 - 5.2 = 26 \text{ m/s}$$

∴ Speed of second train =  $26 \times \left(\frac{18}{5}\right) = 93.6$  km/hr

⇒ Ans - (A)

#### Question 119

If water is freezed to become ice, its volume is increased by 10%, then if the ice is melted to water again, its volume will be decreased by:

- A 8 %
- B  $9\frac{1}{2}$  %
- C 9 %
- D  $9\frac{1}{11}$  %

Answer: D

#### Explanation:

Let initial volume of water =  $10 \text{ cm}^3$

Increase in volume = 10%

⇒ Volume of ice =  $10 \times \frac{(110)}{100} = 11 \text{ cm}^3$

If the ice is melted to water again, its volume will be decreased by =  $\frac{(11-10)}{11} \times 100$

=  $\frac{10}{11} = 9\frac{1}{11}$  %

⇒ Ans - (D)

**25 SSC CHSL Mocks for just Rs. 149**

#### Question 120

The simplified value of following is:

$$\left(\frac{3}{15}a^5b^6c^3 \times \frac{5}{9}ab^5c^4\right) \div \frac{10}{27}a^2bc^3$$

- A  $\frac{9}{10}a^2bc^4$
- B  $\frac{1}{10}a^4b^4c^{10}$
- C  $\frac{3}{10}a^4b^{10}c^4$
- D  $\frac{3}{10}ab^4c^3$

Answer: C

#### Explanation:

$$\text{Expression : } \left(\frac{3}{15}a^5b^6c^3 \times \frac{5}{9}ab^5c^4\right) \div \frac{10}{27}a^2bc^3$$

$$= \left(\frac{3}{15} \times \frac{5}{9} \times \frac{27}{10}\right) \times (a)^{5+1-2} \times (b)^{6+5-1} \times (c)^{3+4-3}$$

$$= \frac{3}{10}a^4b^{10}c^4$$

⇒ Ans - (C)

#### Question 121

A number of boys raised ₹12,544 for a famine fund, each boy has given as many rupees as there were boys. The number of boys was?

- A 122
- B 132
- C 112
- D 102

Answer: C

**Explanation:**

Let the number of boys =  $x$

=> Amount raised by each boy = Rs.  $x$

According to ques, =>  $x^2 = 12,544$

=>  $x = \sqrt{12544} = 112$

∴ Number of boys = 112

=> Ans - (C)

**Question 122**

The value of X in the equation  $\tan^2 \frac{\pi}{4} - \cos^2 \frac{\pi}{3} - X \sin^4 \frac{\pi}{4} \cos^4 \frac{\pi}{3} \tan^3 \frac{\pi}{3}$  is:

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

Answer: A

**Explanation:**

Expression :  $\tan^2 \frac{\pi}{4} - \cos^2 \frac{\pi}{3} - X \sin^4 \frac{\pi}{4} \cos^4 \frac{\pi}{3} \tan^3 \frac{\pi}{3} = 0$

=>  $(1)^2 - \left(\frac{1}{2}\right)^2 - x \left(\frac{1}{\sqrt{2}}\right) \left(\frac{1}{\sqrt{2}}\right) (\sqrt{3}) = 0$

=>  $1 - \frac{1}{4} - \frac{x\sqrt{3}}{2} = 0$

=>  $\frac{3}{4} = \frac{x\sqrt{3}}{2}$

=>  $x = \frac{3}{4} \times \frac{2}{\sqrt{3}}$

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

=> Ans - (A)

## SSC CHSL Free Mock Test

**Question 123**

ABCD is a square. Draw a triangle QBC on side BC considering BC as base and draw a triangle PAC on AC as its base such that

$\triangle QBC \sim \triangle PAC$ , Then  $\frac{\text{Area of } \triangle QBC}{\text{Area of } \triangle PAC}$  is equal to:

- A  $\frac{2}{1}$



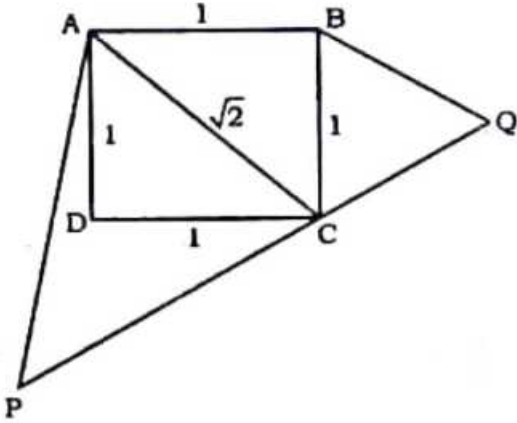
B  $\frac{1}{3}$

C  $\frac{1}{2}$

D  $\frac{2}{3}$

Answer: C

Explanation:



Let side of square ABCD = 1 unit

$\Rightarrow$  Diagonal AC =  $\sqrt{1^2 + 1^2} = \sqrt{2}$  units

It is given that  $\triangle QBC \sim \triangle PAC$

Ratio of areas of two similar triangles is equal to the ratio of squares of corresponding sides.

$\Rightarrow \frac{\text{Area of } \triangle QBC}{\text{Area of } \triangle PAC} = \frac{(BC)^2}{(AC)^2}$

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

$= \frac{1}{2}$

$\Rightarrow$  Ans - (C)

#### Question 124

The current ages of Sonali and Monali are in the ratio 5 : 3 Five years from now, their ages will be in the ratio 10 : 7 Then, Monali's current age is

A 9 years

B 15 years

C 3 years

D 5 years

Answer: A

Explanation:

Let current ages of Sonali and Monali are  $5x$  and  $3x$  years respectively.

According to ques,

$\Rightarrow \frac{5x+5}{3x+5} = \frac{10}{7}$

$\Rightarrow 35x + 35 = 30x + 50$

$\Rightarrow 35x - 30x = 50 - 35$

$$\Rightarrow 5x = 15$$

$$\Rightarrow x = \frac{15}{5} = 3$$

$\therefore$  Monali's current age =  $3 \times 3 = 9$  years

$\Rightarrow$  Ans - (A)

**Question 125**

The compound interest on ₹12000 for 9 months at 20% per annum, interest being compounded quarterly is:

- A ₹1750
- B ₹1891.50
- C ₹2136.40
- D ₹2089.70

**Answer: B**

**Explanation:**

Principal amount = Rs. 12,000 at rate of interest = 20%

Time period =  $\frac{9}{12} = \frac{3}{4}$  years

Compound interest compounding quarterly =  $P[(1 + \frac{R}{400})^{4T} - 1]$

$$= 12,000[(1 + \frac{20}{400})^{4 \times \frac{3}{4}} - 1]$$

$$= 12,000[(1 + \frac{1}{20})^3 - 1]$$

$$= 12,000[(\frac{21}{20})^3 - 1]$$

$$= 12,000 \times (\frac{9261 - 8000}{8000})$$

$$= 1.5 \times 1261 = \text{Rs. } 1891.50$$

$\Rightarrow$  Ans - (B)

## SSC CHSL Previous Papers (DOWNLOAD PDF)

**Question 126**

**Value of the expression:**  $\frac{1+2 \sin 60^\circ \cos 60^\circ}{\sin 60^\circ + \cos 60^\circ} + \frac{1-2 \sin 60^\circ \cos 60^\circ}{\sin 60^\circ - \cos 60^\circ}$

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

**Answer: C**

**Explanation:**

Expression :  $\frac{1+2 \sin 60^\circ \cos 60^\circ}{\sin 60^\circ + \cos 60^\circ} + \frac{1-2 \sin 60^\circ \cos 60^\circ}{\sin 60^\circ - \cos 60^\circ}$

$$= \frac{(\sin^2 60^\circ + \cos^2 60^\circ) + 2 \sin 60^\circ \cos 60^\circ}{\sin 60^\circ + \cos 60^\circ} + \frac{(\sin^2 60^\circ + \cos^2 60^\circ) - 2 \sin 60^\circ \cos 60^\circ}{\sin 60^\circ - \cos 60^\circ}$$

$$= \frac{(\sin 60^\circ + \cos 60^\circ)^2}{\sin 60^\circ + \cos 60^\circ} + \frac{(\sin 60^\circ - \cos 60^\circ)^2}{\sin 60^\circ - \cos 60^\circ}$$

$$= (\sin 60^\circ + \cos 60^\circ) + (\sin 60^\circ - \cos 60^\circ)$$

$$= 2\sin 60^\circ$$

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

=> Ans - (C)

#### Question 127

If  $\frac{\sin\theta + \cos\theta}{\sin\theta - \cos\theta} = 3$  then the value of  $\sin^4\theta$  is:

A  $\frac{4}{5}$

B  $\frac{2}{5}$

C  $\frac{1}{5}$

D  $\frac{3}{5}$

Answer: A

#### Explanation:

Expression :  $\frac{\sin\theta + \cos\theta}{\sin\theta - \cos\theta} = 3$

$$\Rightarrow \sin\theta + \cos\theta = 3\sin\theta - 3\cos\theta$$

$$\Rightarrow 3\sin\theta - \sin\theta = \cos\theta + 3\cos\theta$$

$$\Rightarrow 2\sin\theta = 4\cos\theta$$

$$\Rightarrow \sin\theta = 2\sqrt{1 - \sin^2\theta}$$

Squaring both sides, we get :

$$\Rightarrow \sin^2\theta = 4(1 - \sin^2\theta)$$

$$\Rightarrow \sin^2\theta = 4 - 4\sin^2\theta$$

$$\Rightarrow \sin^2\theta + 4\sin^2\theta = 4$$

$$\Rightarrow 5\sin^2\theta = 4$$

$$\Rightarrow \sin^2\theta = \frac{4}{5}$$

=> Ans - (A)

#### Question 128

If  $\sin 2\theta = \frac{\sqrt{3}}{2}$  then the value of  $\sin 3\theta$  is equal to: (Take  $0^\circ \leq \theta \leq 90^\circ$ )

A 0

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

C 1

D  $\frac{1}{2}$

Answer: C

#### Explanation:

Given :  $\sin 2\theta = \frac{\sqrt{3}}{2}$

$$\Rightarrow \sin 2\theta = \sin(60^\circ)$$

$$\Rightarrow 2\theta = 60^\circ$$

$$\Rightarrow \theta = \frac{60}{2} = 30^\circ$$

To find :  $\sin 3\theta$

$$= \sin(3 \times 30^\circ)$$

$$= \sin(90^\circ) = 1$$

$\Rightarrow$  Ans - (C)

## SSC CGL Previous Papers (DOWNLOAD PDF)

### Question 129

The volume of the largest right circular cone that can be cut out of a cube of edge 7cm? (Use  $\pi = \frac{22}{7}$ ).

A  $13.6\text{cm}^3$

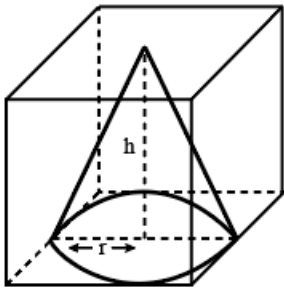
B  $121\text{cm}^3$

C  $147.68\text{cm}^3$

D  $89.8\text{cm}^3$

Answer: D

Explanation:



Height of largest circular cone = 7 cm and radius =  $\frac{7}{2} = 3.5$  cm

$$\text{Volume of cone} = \frac{1}{3}\pi r^2 h$$

$$= \frac{1}{3} \times \frac{22}{7} \times (3.5)^2 \times 7$$

$$= \frac{1}{3} \times 22 \times 12.25$$

$$= \frac{269.5}{3} = 89.8 \text{ cm}^3$$

$\Rightarrow$  Ans - (D)

### Question 130

Two positive whole numbers are such that the sum of the first and twice the second number is 8 and their difference is 2. The numbers are:

A 7,5

B 6,4

C 3,5

D 4,2

Answer: D

Explanation:

Let the numbers be  $x$  and  $(x - 2)$

According to ques,

$$\Rightarrow x + 2(x - 2) = 8$$

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

$$\Rightarrow 3x = 8 + 4 = 12$$

$$\Rightarrow x = \frac{12}{3} = 4$$

$\therefore$  Numbers are = 4, 2

$\Rightarrow$  Ans - (D)

#### Question 131

The speed of a car in  $54 \frac{km}{hr}$ . What is its speed in  $\frac{m}{sec}$  ?

A  $150 \frac{m}{sec}$

B  $19.44 \frac{m}{sec}$

C  $194.4 \frac{m}{sec}$

D  $15 \frac{m}{sec}$

Answer: D

#### Explanation:

Speed of a car =  $54 \text{ km/hr}$

$$\text{Speed (in m/s)} = 54 \times \frac{5}{18}$$

$$= 3 \times 5 = 15 \text{ m/s}$$

$\Rightarrow$  Ans - (D)

## SSC CGL Free Mock Test (Latest Pattern)

#### Question 132

The income of a company increase 20% per annum. If its income ₹26,64,000 in the year 2012, then its income in the year 2010 was:

A ₹28,20,000

B ₹28,55,000

C ₹18,50,000

D ₹21,20,000

Answer: C

#### Explanation:

Let income in year 2010 = Rs.  $x$

Increase % every year = 20%

$$\text{Thus, income in 2012} = x \left(1 + \frac{20}{100}\right)^2 = 26,64,000$$

$$\Rightarrow x \left(\frac{6}{5}\right)^2 = 26,64,000$$

$$\Rightarrow x = 26,64,000 \times \frac{25}{36}$$

$$\Rightarrow x = 74,000 \times 25 = 18,50,000$$

∴ Income in 2010 was **Rs. 18,50,000**

=> Ans - (C)

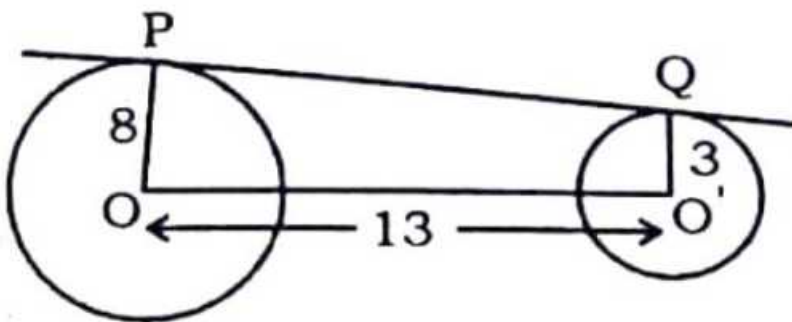
**Question 133**

The distance between centers of two circles of radii 3 cm and 8 cm is 13 cm. If the points of contact of a direct common tangent to the circles are P and Q, the length of the line segment PQ is:

- A 11.9 cm
- B 11.5 cm
- C 12 cm
- D 11.58 cm

**Answer: C**

**Explanation:**



Two circles having radii  $r_1$  and  $r_2$  and distance between them  $d$

Length of direct common tangent  $PQ = \sqrt{d^2 - (r_2 - r_1)^2}$

$$= \sqrt{(13)^2 - (8 - 3)^2}$$

$$= \sqrt{169 - 25} = \sqrt{144} = 12 \text{ cm}$$

=> Ans - (C)

**Question 134**

A shopkeeper marks his goods 20% higher than the cost price and allows a discount of 5%. The percentage of his profit is.

- A 14%
- B 15%
- C 10%
- D 20%

**Answer: A**

**Explanation:**

Let cost price = Rs. 100

Markup % = 20%

$$\Rightarrow \text{Marked price} = 100 + \left(\frac{20}{100} \times 100\right)$$

$$= 100 + 20 = \text{Rs. } 120$$

$$\text{After allowing discount of 5\%, } \Rightarrow \text{Selling price} = 120 - \left(\frac{5}{100} \times 120\right)$$

$$= 120 - 6 = \text{Rs. } 114$$

$$\therefore \text{Profit \%} = \frac{(114-100)}{100} \times 100 = 14\%$$

=> Ans - (A)

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

### Question 135

In  $\triangle ABC$ ,  $AB = BC = K$ ,  $AC = \sqrt{2} K$ , then  $\triangle ABC$  is a:

- A Isosceles triangle
- B Right-angled triangle
- C Equilateral triangle
- D Right isosceles triangle

**Answer:** D

#### Explanation:

The three sides are not equal, hence it is not an equilateral triangle.

$$\text{Now, } (AB)^2 + (BC)^2 = (k)^2 + (k)^2 = 2k^2$$

$$\text{Also, } (AC)^2 = (\sqrt{2} k)^2 = 2k^2$$

$$\therefore (AB)^2 + (BC)^2 = (AC)^2$$

Thus,  $\triangle ABC$  is a Right isosceles triangle.

=> Ans - (D)

### Question 136

The smallest five digit number which is divisible by 12, 18 and 21 is:

- A 50321
- B 10224
- C 30256
- D 10080

**Answer:** D

#### Explanation:

$$\text{L.C.M. } (12, 18, 21) = 252$$

$$\text{Lowest five digit number} = 10000$$

$$\text{Now on dividing } 10000 \text{ by } 252, \text{ remainder} = 10000 \% 252 = 172$$

$$\text{Thus, smallest five digit number which is divisible by } 12, 18 \text{ and } 21 = 1000 + (252 - 172) = 10080$$

=> Ans - (D)

### Question 137

By selling an article for ₹450. I lose 20%. For what amount should I sell it to gain 20% ?

- A ₹490
- B ₹470
- C ₹562.50

D ₹675

Answer: D

Explanation:

Selling price = Rs. 450 and loss % = 20%

$$\Rightarrow \text{Cost price} = \frac{450}{100-20} \times 100$$

$$= 450 \times \frac{5}{4} = \text{Rs. } 562.50$$

$$\therefore \text{Selling price to gain } 20\% = \frac{(100+20)}{100} \times 562.50$$

$$= \frac{6}{5} \times 562.50 = \text{Rs. } 675$$

$\Rightarrow$  Ans - (D)

## SSC CHSL Study Material

Question 138

In an exam the sum of the scores of A and B is 120, that of B and C is 130 and that of C and A is 140. Then the score of C is

A 65

B 60

C 70

D 75

Answer: D

Explanation:

Let scores of A, B and C are  $a$ ,  $b$  and  $c$  respectively.

$$\text{According to ques, } \Rightarrow a + b = 120 \text{ -----(i)}$$

$$b + c = 130 \text{ -----(ii)}$$

$$c + a = 140 \text{ -----(iii)}$$

Adding above equations, we get :  $2(a + b + c) = (120 + 130 + 140)$

$$\Rightarrow a + b + c = \frac{390}{2} = 195$$

Substituting value from equation (i) in above equation,

$$\Rightarrow 120 + c = 195$$

$$\Rightarrow c = 195 - 120 = 75$$

$\Rightarrow$  Ans - (D)

Question 139

If  $\alpha + \beta = 90^\circ$  then the expression  $\frac{\tan \alpha}{\tan \beta} + \sin^2 \alpha + \sin^2 \beta$  is equal to :

A  $\sec^2 \beta$

B  $\tan^2 \beta$

C  $\sec^2 \alpha$

D  $\tan^2 \alpha$

Answer: C



**Explanation:**

$$\text{Given } \alpha + \beta = 90 \Rightarrow \alpha = 90 - \beta$$

$$\frac{\tan \alpha}{\tan \beta} + \sin^2 \alpha + \sin^2 \beta = \frac{\tan \alpha}{\tan(90-\alpha)} + \sin^2 \alpha + \sin^2(90-\alpha) = \frac{\tan \alpha}{\cot \alpha} + \sin^2 \alpha + \cos^2 \alpha = \tan^2 \alpha + 1 = \sec^2 \alpha$$

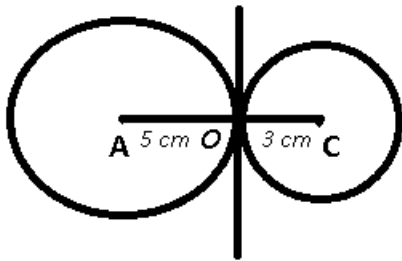
**Question 140**

Two circles of radii 5 cm and 3 cm touch externally, then the ratio in which the direct common tangent to the circles divides externally the line joining the centers of the circles is:

- A 2.5 : 1.5
- B 1.5 : 2.5
- C 3 : 5
- D 5 : 3

**Answer: D**

**Explanation:**



Circle with centre A has radius OA = 5 cm

Circle with centre C has radius OC = 3 cm

The direct common tangent intersects the line joining the centres at O.

Thus, it clearly divides OA : OC = 5 : 3

=> Ans - (D)

**SSC CHSL Free App**

**Question 141**

A fruit seller buys oranges at the rate of ₹10 per dozen and sells at the rate of ₹12 per dozen. His gain percent is

- A 15%
- B 20%
- C  $8\frac{1}{3}\%$
- D 12%

**Answer: B**

**Explanation:**

Cost price per dozen = Rs. 10

Selling price per dozen = Rs. 12

$$\Rightarrow \text{Profit \%} = \frac{(12-10)}{10} \times 100$$

$$= 2 \times 10 = 20\%$$

=> Ans - (B)

**Question 142**

The outer circumference of a circular race track is 528 metre. The track is every where 14 metre wide. Cost of levelling the track at the rate of ₹10 per sq. metre is:

- A ₹77660
- B ₹76760
- C ₹66760
- D ₹67760

**Answer: D**

**Explanation:**

Let outer radius =  $R$  m and inner radius =  $r = (R - 14)$  m

Outer circumference =  $2\pi R = 528$

$$\Rightarrow 2 \times \frac{22}{7} \times R = 528$$

$$\Rightarrow R = 528 \times \frac{7}{44} = 84 \text{ m}$$

Thus, inner radius =  $84 - 14 = 70$  m

$$\Rightarrow \text{Area of track} = \pi(R^2 - r^2)$$

$$= \frac{22}{7} (R + r)(R - r)$$

$$= \frac{22}{7} (84 + 70)(84 - 70)$$

$$= \frac{22}{7} \times 154 \times 14 = 6776 \text{ m}^2$$

∴ Total cost of levelling =  $6776 \times 10 = \text{Rs. } 67,760$

=> Ans - (D)

**Question 143**

If  $1^3 + 2^3 + \dots + 10^3 = 3025$ , then the value of  $2^3 + 4^3 + \dots + 20^3$  is:

- A 5060
- B 12100
- C 24200
- D 7590

**Answer: C**

**Explanation:**

$$\text{Given : } 1^3 + 2^3 + \dots + 10^3 = 3025 \text{ -----(i)}$$

To find :  $2^3 + 4^3 + \dots + 20^3$

$$= (2 \times 1)^3 + (2 \times 2)^3 + \dots + (2 \times 10)^3$$

$$= (8 \times 1^3) + (8 \times 2^3) + \dots + (8 \times 10^3)$$

$$= 8 \times (1^3 + 2^3 + \dots + 10^3)$$

Substituting value from equation (i), we get :

$$= 8 \times 3025 = 24200$$

=> Ans - (C)

## Daily Free SSC Practice Set

### Question 144

The surface area of sphere is  $616\text{cm}^2$ . The volume of the sphere would be:

- A  $2100\text{cm}^2$
- B  $2500\text{cm}^2$
- C  $1437\frac{1}{3}\text{cm}^3$
- D  $122.5\frac{3}{5}\text{cm}^2$

Answer: C

### Explanation:

Let radius of sphere =  $r$  cm

$$\text{Surface area} = 4\pi r^2 = 616$$

$$\Rightarrow 4 \times \frac{22}{7} r^2 = 616$$

$$\Rightarrow r^2 = 616 \times \frac{7}{88} = 49$$

$$\Rightarrow r = \sqrt{49} = 7 \text{ cm}$$

$$\therefore \text{Volume} = \frac{4}{3} \times \pi r^3$$

$$\Rightarrow \frac{4}{3} \times \frac{22}{7} \times (7)^3$$

$$= \frac{4}{3} \times 22 \times 49 = 1437\frac{1}{3} \text{ cm}^3$$

$\Rightarrow$  Ans - (C)

### Question 145

A vessel contains 60 litres of milk. 12 litres of milk taken out from it and replaced by water. Then again from mixture, 12 litres are again taken out and replaced by water. The ratio of milk and water in the resultant mixture is:

- A 16 : 10
- B 9 : 5
- C 15 : 10
- D 16 : 9

Answer: D

### Explanation:

Initial quantity of milk = 60 litres

When 12 litres of milk taken out from it and replaced by water, then quantity of milk =  $60 - 12 = 48$  litres and water = 12 litres

(Total mixture still remains 60 litres)

Again, 12 litres of mixture is taken out,  $\Rightarrow$  Fraction of mixture taken out =  $\frac{12}{60} = \frac{1}{5}$

$$\Rightarrow \text{Milk left} = 48 - \left(\frac{1}{5} \times 48\right) = 38.4 \text{ litres}$$

$$\Rightarrow \text{Water left} = 60 - 38.4 = 21.6 \text{ litres}$$

$$\therefore \text{Required ratio} = \frac{38.4}{21.6} = \frac{64}{36} = 16 : 9$$

$\Rightarrow$  Ans - (D)

Question 146

If  $(2a - 1)^2 + (4b - 3)^2 + (4c + 5)^2 = 0$ , Then the value of  $\frac{a^3 + b^3 + c^3 - 3abc}{a^2 + b^2 + c^2}$  is:

- A  $1\frac{3}{8}$
- B  $3\frac{3}{8}$
- C  $2\frac{3}{8}$
- D 0

Answer: D

Explanation:

Given :  $(2a - 1)^2 + (4b - 3)^2 + (4c + 5)^2 = 0$

∴ Sum of 3 positive terms is 0, then each term is equal to '0'.

$\Rightarrow 2a - 1 = 0$

$\Rightarrow a = \frac{1}{2} = \frac{2}{4}$

Similarly,  $b = \frac{3}{4}$  and  $c = \frac{-5}{4}$

Now,  $(a + b + c) = \frac{2}{4} + \frac{3}{4} + \left(\frac{-5}{4}\right) = 0$  -----(i)

Using,  $a^3 + b^3 + c^3 - 3abc = (a + b + c)(a^2 + b^2 + c^2 - ab - bc - ac)$

$\Rightarrow a^3 + b^3 + c^3 - 3abc = (0)(a^2 + b^2 + c^2 - ab - bc - ac)$  [Using equation (i)]

$\Rightarrow a^3 + b^3 + c^3 - 3abc = 0$  -----(ii)

To find :  $\frac{a^3 + b^3 + c^3 - 3abc}{a^2 + b^2 + c^2}$

$= \frac{0}{a^2 + b^2 + c^2} = 0$  [Using equation (ii)]

$\Rightarrow$  Ans - (D)

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Question 147

A house was sold for ₹y by giving a discount of x% then the list price was:

- A  $\frac{100 y}{100 - x}$
- B  $\frac{100 x}{100 - y}$
- C  $\frac{100 y}{1 - x}$
- D  $\frac{100 y}{1 - 100}$

Answer: A

Explanation:

Selling price = Rs. y and discount % = x %

$\Rightarrow$  List price =  $\frac{y}{(100 - x)} \times 100$

$= \frac{100 y}{100 - x}$

=> Ans - (A)

**Question 148**

If  $a + \frac{1}{b} = 1$  and  $b + \frac{1}{c} = 1$ , then  $c + \frac{1}{a}$  is equal to:

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

**Answer: B**

**Explanation:**

Given,  $a + \frac{1}{b} = 1$

$$\Rightarrow a = 1 - \frac{1}{b}$$

$$\Rightarrow a = \frac{b-1}{b}$$

$$\Rightarrow \frac{1}{a} = \frac{b}{b-1}$$

Also,  $b + \frac{1}{c} = 1$

$$\Rightarrow \frac{1}{c} = 1 - b$$

$$\Rightarrow c = \frac{1}{1-b}$$

$$\therefore c + \frac{1}{a} = \frac{1}{1-b} + \frac{b}{b-1} = \frac{1}{1-b} - \frac{b}{1-b} = \frac{1-b}{1-b} = 1$$

**Question 149**

If 20 women can lay a road of length 100 m in 10 days. 10 women can lay the same road of length 50m in:

- A 20 days
- B 10 days
- C 5 days
- D 15 days

**Answer: B**

**Explanation:**

Using,  $\frac{M_1 D_1}{W_1} = \frac{M_2 D_2}{W_2}$ , where  $M$  is number of men,  $D$  is number of days and  $W$  is work done.

According to ques,

$$\Rightarrow \frac{20 \times 10}{100} = \frac{10 \times D_2}{50}$$

$$\Rightarrow 2 = \frac{D_2}{5}$$

$$\Rightarrow D_2 = 2 \times 5 = 10 \text{ days}$$

=> Ans - (B)

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**Question 150**

$83\frac{1}{3}\%$  of ₹ 90 is equal to 60% of ?

- A ₹124
- B ₹125
- C ₹123
- D ₹122

**Answer: B**

**Explanation:**

Expression :  $83\frac{1}{3}\%$  of ₹ 90 is equal to 60% of  $x$

$$\Rightarrow 3 \times 100 \times 90 = \frac{60}{100} \times x$$

$$\Rightarrow 250 \times 30 = 60x$$

$$\Rightarrow x = \frac{250}{2} = 125$$

$\Rightarrow$  Ans - (B)

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### General Awareness

#### Instructions

For the following questions answer them individually

#### Question 151

Whose army did Alexander, the Greek ruler confront on the banks of the river Jhelum ?

- A Ams
- B Chandragupta Maurya
- C Porus
- D Dhanamanda

**Answer: C**

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#### Question 152

The most suitable soil for the production of cotton is ?

- A Black lave soil
- B Loamy soil
- C Well drained soil
- D Alluvial soil

**Answer: A**

#### Question 153

The largest producer of Lignite in India is

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

**Answer: C**

**Question 154**

**When was RTI Act conacted India ?**

- A 15<sup>th</sup> August 2005
- B 15<sup>th</sup> March 2005
- C 15<sup>th</sup> June 2005
- D 15<sup>th</sup> July 2005

**Answer: C**

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**Question 155**

**The famouse activist Medha Patakar is associated with whhich movement ?**

- A Narmda bachao Andolan
- B Save the Tiger
- C preserve the we lands
- D Beti Padao Andolan

**Answer: A**

**Question 156**

**Lender of the Last Resort is ?**

- A IDBI
- B NABARD
- C SBI
- D RBI

**Answer: D**

**Question 157**

**Sex-ratio is calculated as**

- A No of remales per 1,000 males in a Country

- B No of males per 1,000 females in a Country
- C No of children per 1,000 people in a Country
- D No of people per 1,000 children in a Country

Answer: B

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### Question 158

Who has been named ICC World Cup 2015 Ambassador ?

- A Sanath Teran Jayasuriya
- B Allam Robert Border
- C Sir issac Virian Alexander Richards
- D Sachin Tendulkar

Answer: D

### Question 159

Soldering of two metals is possible because of the property of

- A Osmosis
- B Viscosity
- C surface tension
- D Cohesion

Answer: D

### Question 160

Stalactites & Stalagmites form due to the precipitation of:

- A  $CaCl_2$
- B  $MgCO_3$
- C  $MgCl_2$
- D  $CaCO_3$

Answer: D

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### Question 161

Which of the following is a form of sexual reproduction

- A Fission



- B Fragmentation
- C Budding
- D Hermaphroditism

**Answer: D**

**Question 162**

**Who among the following is not a Bharatanatyam dancer ?**

- A Satara Devi
- B Leela Samson
- C Geeta Ramachandran
- D Sonal Mansingh

**Answer: A**

**Question 163**

**The 73<sup>rd</sup> Constitutional amendment act is related to ?**

- A Panchayat Raj
- B Foreign Exchange
- C Finance Commission
- D RBI

**Answer: A**

**[SSC CHSL Previous Papers \(DOWNLOAD PDF\)](#)**

**Question 164**

**Ryder Cup is a famous tournament of ?**

- A Badminton
- B Golf
- C Cricket
- D Lawn Tennis

**Answer: B**

**Question 165**

**Kanha National Park is located in ?**

- A Tamil Nadu
- B Bihar
- C Andhra Pradesh

D Madhya Pradesh

Answer: D

Question 166

Who wrote "Discovery of India ?

A Mahatma Gandhi

B Jawaharlal Nehru

C Bal Gangadhar Tilak

D APJ Abdul Kalam

Answer: B

## SSC CGL Previous Papers (DOWNLOAD PDF)

Question 167

Who is the first woman IPS officer in India ?

A Sarojini Naidu

B Kiran Bedi

C Bachendri Pal

D Indira Gandhi

Answer: B

Question 168

Perfectly inelastic demand is equal to:

A One

B Zero

C Infinite

D Greater than one

Answer: B

Question 169

In which region of electromagnetic spectrum does the Lyman series of hydrogen atom lie ?

A x-ray

B ultraviolet

C visible

D infrared

Answer: B

## SSC CGL Free Mock Test (Latest Pattern)

### Question 170

Which of the following is the right expansion of ILO ?

- A International Labour Organization
- B Indian Legal Orientation
- C International Law and Order
- D Inter-State Lawful Ordinance

Answer: D

### Question 171

Which state of India has made rain water harvesting compulsory for all houses ?

- A Tamil Nadu
- B Punjab
- C Haryana
- D Maharashtra

Answer: A

### Question 172

An electrochemical cell which is used as a source of direct electrical current of constant voltage under standard conditions is called a:

- A Power transmitter
- B Battery
- C Generator
- D Uninterrupted power supply (UPS)

Answer: B

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

### Question 173

In 2010 a newspaper published its 70,000<sup>th</sup> issue. Which was the newspaper ?

- A The Oxford gazette
- B The Washington Post
- C The Times of London
- D The Hindustan Times

Answer: C

**Question 174**

**Impeachment : Proceedings against the president violation of the Constitution can initiated in:**

- A The Supreme Court
- B The Rajya Sabha
- C Either House of Parliament
- D The Lok Sabha

**Answer: C**

**Question 175**

**Who built the "Purana Quila ?**

- A Bihar
- B Shershah
- C Aurangzeb
- D Akbar

**Answer: B**

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**Question 176**

**The opening ceremony of the ICC Cricket World Cup 2015 was held on 12 February 2015 in which cities of New Zealand and Australia ?**

- A Christchurch and Melbourne
- B Hemilton and Perth
- C Napier and Adelaide
- D Wellington and Sydney

**Answer: A**

**Question 177**

**A light wave is incident over a plane surface with velocity X. After reflection the velocity becomes:**

- A x
- B 2x
- C x/4
- D x/2

**Answer: B**

**Question 178**

**The five key indicators of global climate change of our planet are:**

- A Sea-level, Rising temperatures, Rainfall, Nitrogen and Artic Sea ice
- B None of the options
- C Artic Sea ice, Carbons dioxide, global temperature, sea level and land ice.
- D Antarctic Sea ice, Oxygen, rainfall, Drought and Sea level

**Answer: C**

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**Question 179**

**In operating system, Round Robin Scheduling means :**

- A A kind of scheduling
- B A process allocation policy
- C A memory allocation policy
- D Reputation policy

**Answer: A**

**Question 180**

**The reserved for the welfare of wild life is called ?**

- A Sanctuary
- B Botanical Garden
- C Forest
- D National Park

**Answer: D**

**Question 181**

**Where did Chandragupta Maurya spend his last days ?**

- A Thaneshwar
- B Kanchi
- C Pataliputra
- D sravanabelogola

**Answer: D**

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**Question 182**

**Project tiger programme was launched in:**

- A 1994
- B 1973
- C 1975
- D 1971

**Answer: B**

**Question 183**

**The national Green Tribunal deals with cases relating to ?**

- A Criminal offenses
- B Issues relating to protection and conservation of historical monuments
- C Civil cases
- D Environmental protection and conservation of forests.

**Answer: D**

**Question 184**

**Who was the First Speaker of the Lok Sabha ?**

- A K.S. Hegde
- B Hukum Singh
- C Ganesh Vasudev
- D Neelam Sanjeeva Reddy

**Answer: C**

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**Question 185**

**FORTRAN is called :**

- A Floppy Translator
- B Formula Translator
- C File Translator
- D Format Translator

**Answer: B**

**Question 186**

**Which Indian News Paper has the largest readership ?**

- A The malayala manorama
- B Indian Express

- C The Hindu
- D The danik jagram

**Answer: D**

**Question 187**

**The gas dissolved in water that makes it basic is ?**

- A Ammonia
- B Hydrogen
- C Sulphur dioxide
- D carban dioxide

**Answer: A**

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**Question 188**

**The biggest oil spilt in world history took place in the ?**

- A Persion Gulf
- B Caspian Sea
- C Mediterean Sea
- D South china Sea

**Answer: D**

**Question 189**

**Among the following which country has the highest life expectancy ?**

- A U.S.A
- B Switzerland
- C Japan
- D Denmark

**Answer: C**

**Question 190**

**Yellow complexion, Medium stature, Oblique eye with an epicanthic fold is the characteristic feature of ?**

- A Australoids
- B Negroid
- C Mongoloid
- D Cancosoid

Answer: C

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Question 191

Chromosome designation of Turner syndrome is:

- A 44A+XO
- B 44A+XXY
- C 44A+XXX
- D 44A+XYY

Answer: A

Question 192

The redness in atmosphere at Sunrise and Sunset is due to:

- A dispersion of light
- B scattering of light
- C Refraction of light
- D Reflection of light

Answer: B

Question 193

Which day is celebrated as International Yoga Day ?

- A April 23
- B September 21
- C July 21
- D June 21

Answer: D

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Question 194

December 1 is celebrated as:

- A Indian Navy Day
- B UNICEF Day
- C Children's Day
- D World AIDS Day

Answer: D



**Question 195**

Distant objects are visible as a little out of focus in this condition:

- A hypermetropia
- B presbiopia
- C astigmatism
- D myopia

**Answer: D**

**Question 196**

Maximum oxygen is available from:

- A Green forests
- B Deserts
- C Grass lands
- D Phytoplanktons

**Answer: D**

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**Question 197**

Which one of the following tribes practices pastoral nomadism ?

- A Boro
- B Masai
- C Pygmies
- D Eskimo

**Answer: C**

**Question 198**

Who was the first Secretary General of U.N.O ?

- A Kuri Waldheim
- B Dag Hammarskjold
- C Trygve Lie
- D U-Thant

**Answer: C**

**Question 199**

Who is the author of 'Indica' ?

- A Fa-Hien
- B Hiuen Tsang
- C Megasthenese
- D Selucas

Answer: C

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Question 200

In a reaction of the type  $A + B \rightarrow C + D$  one could ensure it to be a first order reaction by

- A Increasing the concentration of a reactant
- B Adding a catalyst
- C Increasing the temperature
- D Increasing the concentration of a product

Answer: A

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