



## SSC CHSL 20 December 2015 Evening Shift

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## Reasoning

### Instructions

For the following questions answer them individually

#### Question 1

Out of the given alternatives select one which exactly matches with the mirror image of the word.

### REASONING

- A REASONING
- B GNINOSAER
- C RƎAƎNINƎ
- D REA 2 ONING

Answer: C

### Explanation:

In the mirror image, the last 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.

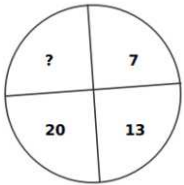
=> Ans - (C)

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### Instructions

In the following 4 questions, select the missing number from the given responses:

#### Question 2



- A 28
- B 30
- C 29
- D 26

Answer: A

### Explanation:

Starting from '7', successive integers are added.

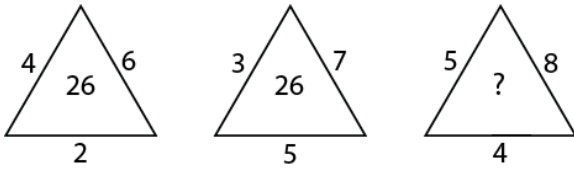
$$7 + 6 = 13$$

$$13 + 7 = 20$$

$$20 + 8 = 28$$

=> Ans - (A)

Question 3



- A 38
- B 44
- C 28
- D 37

Answer: B

Explanation:

The top two numbers (on the edge) are multiplied and the product is added to the bottom number to get the middle number.

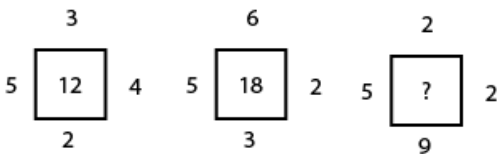
Eg :-  $(4 \times 6) + 2 = 24 + 2 = 26$

and  $(3 \times 7) + 5 = 21 + 5 = 26$

Similarly,  $(5 \times 8) + 4 = 40 + 4 = 44$

=> Ans - (B)

Question 4



- A 18
- B 16
- C 15
- D 17

Answer: A

Explanation:

The numbers on the edges are multiplied and then divided by 10.

Eg :-  $2 \times 4 \times 3 \times 5 = 120 \div 10 = 12$

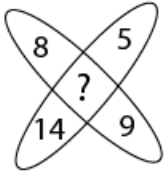
and  $3 \times 2 \times 6 \times 5 = 180 \div 10 = 18$

Similarly,  $9 \times 2 \times 2 \times 5 = 180 \div 10 = 18$

=> Ans - (A)

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Question 5



- A 142
- B 148
- C 144
- D 146

Answer: A

**Explanation:**

Diagonal elements are multiplied and then added.

$$\Rightarrow (8 \times 9) + (5 \times 14)$$

$$= 72 + 70 = 142$$

$\Rightarrow$  Ans - (A)

**Instructions**

In the following 9 questions, find the odd word/number/letters/number pair from the given alternatives.

Question 6

Find the odd word.

- A Spleen
- B Pancreas
- C Eye
- D Liver

Answer: C

**Explanation:**

Spleen, pancreas and liver are human organs inside the human body, while eyes are visible from outside, hence it is the odd one out.

$\Rightarrow$  Ans - (C)

Question 7

Find the odd word.

- A Catalysis
- B Condensation
- C Conduction
- D Coagulation

Answer: D

**Explanation:**

Catalysis, Condensation and Conduction are related to chemistry, while Coagulation is related to biology, hence it is the odd one out.

=> Ans - (D)

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### Question 8

Find the odd word.

- A Langur
- B Whale
- C Scarab
- D Donkey

**Answer: C**

**Explanation:**

All the given options except scarab are mammals whereas scarab is an insect.

=> Ans - (C)

### Question 9

Find the odd letters.

- A PRTV
- B LNPR
- C ACEG
- D MNPR

**Answer: D**

**Explanation:**

(A) : P (+2 letters) = R (+2 letters) = T (+2 letters) = V

(B) : L (+2 letters) = N (+2 letters) = P (+2 letters) = R

(C) : A (+2 letters) = C (+2 letters) = E (+2 letters) = G

(D) : M (+1 letter) = N (+2 letters) = P (+2 letters) = R

=> Ans - (D)

### Question 10

Find the odd letters.

- A GHJM
- B PQSV
- C BCEH
- D RUWY

**Answer: D**

**Explanation:**

(A) : G (+1 letter) = H (+2 letters) = J (+3 letters) = M

(B) : P (+1 letter) = Q (+2 letters) = S (+3 letters) = V

(C) : B (+1 letter) = C (+2 letters) = E (+3 letters) = H

(D) : R (+3 letters) = U (+2 letters) = W (+2 letters) = Y

=> Ans - (D)

## SSC CGL Previous Papers (DOWNLOAD PDF)

### Question 11

Find the odd letters.

A MKHD

B JHEA

C QNKH

D XVSO

Answer: C

Explanation:

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

(B) : J (-2 letters) = H (-3 letters) = E (-4 letters) = A

(C) : Q (-3 letters) = N (-3 letters) = K (-3 letters) = H

(D) : X (-2 letters) = V (-3 letters) = S (-4 letters) = O

=> Ans - (C)

### Question 12

Find the odd numbers pair.

A (2, 11)

B (3, 30)

C (7, 345)

D (5, 128)

Answer: C

Explanation:

The pattern followed is :

(A) :  $(2)^3 + 3 = 11$

(B) :  $(3)^3 + 3 = 30$

(C) :  $(7)^3 + 3 = 346 \neq 345$

(D) :  $(5)^3 + 3 = 128$

=> Ans - (C)

### Question 13

Find the odd number.

A 210

B 529

C 289

D 196

**Answer: A**

**Explanation:**

Apart from 210,  $529 = (23)^2$ ,  $289 = (17)^2$  and  $196 = (14)^2$  are perfect squares, hence 210 is the odd one out.

=> Ans - (A)

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**Question 14**

**Find the odd number.**

A 121

B 144

C 189

D 169

**Answer: C**

**Explanation:**

Apart from 189,  $121 = (11)^2$ ,  $144 = (12)^2$  and  $169 = (13)^2$  are perfect squares, hence 189 is the odd one out.

=> Ans - (C)

**Instructions**

In the following 9 questions, select the related words/letters/number from the given alternatives.

**Question 15**

**Velocity : Speed :: Veracity : ?**

A Idea

B Falschood

C Truth

D Principle

**Answer: C**

**Explanation:**

Velocity means speed in vector space, similarly veracity is related to truth.

=> Ans - (C)

**Question 16**

**Iodine : Goitre :: ?**

A Fat: Obesity

B Insulin : Diabetes

C Hormones : Haemophilia

D Mango : Anemia

Answer: B

**Explanation:**

Lack of Iodine causes Goitre, similarly lack of insulin causes Diabetes.

=> Ans - (B)

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**Question 17**

**Doctor : Medicine :: ? : Judgement**

- A Lawyer
- B Court
- C Policeman
- D Judge

Answer: D

**Explanation:**

A doctor provides us medicine to cure, similarly a judge gives judgement.

=> Ans - (D)

**Question 18**

**134 : ACD :: 567 : ?**

- A DEF
- B HIJ
- C FGH
- D EFG

Answer: D

**Explanation:**

Expression = 134 : ACD :: 567 : ?

When each letter is numbered, i.e. A = 1, B = 2, C = 3 and so on.

Thus, 5,6,7 will represent E,F,G

=>  $567 \equiv EFG$

=> Ans - (D)

**Question 19**

**BONUS : ACNPMOTVRT :: BUCKET : ?**

- A ACMNMOTURT
- B ACTVBDJLDFSU
- C ACMNMOTVRT
- D SUOBN

Answer: B



**Explanation:**

Expression = BONUS : ACNPMOTVRT

The pattern followed is that 'B' is written as 'AC', i.e. immediately preceding and succeeding alphabets.

Thus, O = NP, N = MO and so on.

Similarly, BUCKET : ACTVBDJLDFSU

=> Ans - (B)

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**Question 20**

**ADFM : CFHO :: CFHO : ?**

**A** EHQJ

**B** EHJQ

**C** EQHJ

**D** EHJR

**Answer: B**

**Explanation:**

Expression = ADFM : CFHO

The pattern followed is :

A	D	F	M
(+2)	(+2)	(+2)	(+2)
C	F	H	O

Similarly, for CFHO :

C	F	H	O
(+2)	(+2)	(+2)	(+2)
E	H	J	Q

=> Ans - (B)

**Question 21**

**196 : 1372 :: 256 : ?**

**A** 2048

**B** 4048

**C** 3436

**D** 6344

**Answer: A**

**Explanation:**

Expression = 196 : 1372 :: 256 : ?

The pattern followed is =  $n^2 : \frac{n^3}{2}$

Eg :-  $(14)^2 : \frac{(14)^3}{2} = 196 : 1372$

Similarly,  $256 = (16)^2$

$$\therefore \frac{(16)^3}{2} = 2048$$

=> Ans - (A)

**Question 22**

4 : 24 :: 5 : ?

A 36

B 32

C 35

D 39

**Answer: C**

**Explanation:**

Expression = 4 : 24 :: 5 : ?

The pattern followed is =  $n : n(n + 2)$

Eg :-  $4 : 4 \times (4 + 2) = 4 : 24$

Similarly,  $5 \times (5 + 2) = 5 \times 7 = 35$

=> Ans - (C)

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**Question 23**

9 : 243 :: 6 : ?

A 100

B 92

C 108

D 72

**Answer: D**

**Explanation:**

Expression = 9 : 243 :: 6 : ?

The pattern followed is =  $n : \frac{n^3}{3}$

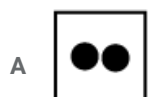
Eg :-  $9 : \frac{(9)^3}{3} = 9 : 243$

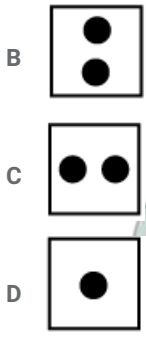
Similarly,  $\frac{(6)^3}{3} = \frac{216}{3} = 72$

=> Ans - (D)

**Question 24**

First a rectangular shape paper is taken, then it is folded from left to right, then cut a circle shape paper. When it will be opened which paper will appear ?





Answer: C

**Explanation:**

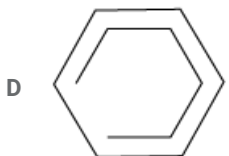
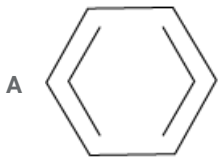
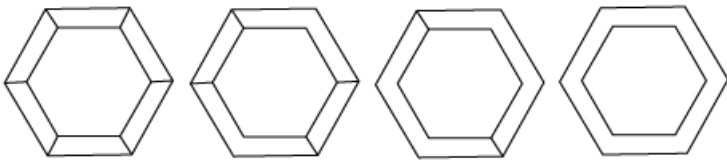
When the circle shape is cut on the rectangular paper and opened similarly, two holes will be on left and right and will be equidistant from centre and edge of the rectangle as shown below



Hence, the correct answer is Option C

**Question 25**

Find the pattern and select figure from alternatives which should come after the question figures.



Answer: A

**Explanation:**

In the given series, opposite lines connecting the both hexagons are disappearing in clockwise direction. After that opposite sides of the inner hexagon disappears similarly.

∴ The next figure in the given series is



Hence, the correct answer is Option A

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### Instructions

In the following 2 questions, from the given alternatives words, select the word which cannot be formed using the letters of the given word.

### Question 26

#### Happiness

- A Pine
- B Spent
- C Spine
- D Snipe

Answer: B

#### Explanation:

The word 'Happiness' does not contain any 'T', thus the word '*spent*' cannot be formed.

=> Ans - (B)

### Question 27

#### Environment

- A Term
- B Rein
- C Rent
- D Reign

Answer: D

#### Explanation:

The word 'Environment' does not contain any 'G', thus the word '*reign*' cannot be formed.

=> Ans - (D)

### Instructions

In the following 3 questions, which one set of letters when sequentially placed at the gaps in the given letter series shall complete it ?

### Question 28

opo \_ \_ po \_ ppo \_ \_ pppo \_ op \_ p

- A opooooo
- B opoooo
- C opoopoo

D ooopppo

Answer: A

**Explanation:**

Expression = opo\_\_ po \_ppo \_\_ pppo \_ op \_p

The pattern followed is :

= op / o**opp** / o**opp** / o**oopp** / o**oopp**

=> Ans - (A)

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**Question 29**

i \_\_\_ ij \_L \_\_\_ l

A Jklikj

B Klijkl

C Jklijkl

D jklkij

Answer: D

**Explanation:**

Expression = i \_\_\_ ij \_L \_\_\_ l

The pattern followed is that in sets of 4, the term 'ijkl' is repeated.

= ijkl / ijkl / ijkl

=> Ans - (D)

**Question 30**

ab \_\_\_ b \_ bbaa \_

A babba

B abbab

C baaab

D abaab

Answer: C

**Explanation:**

Expression = ab \_\_\_ b \_ bbaa \_

The pattern followed is that in sets of 3, the terms 'abb' and 'aab' are alternatively repeated.

= abb / aab / abb / aab

=> Ans - (C)

**Instructions**

For the following questions answer them individually

**Question 31**

If the mirror image of a clock shows quarter past three, then what is the original time ?

- A 9.15
- B 8.15
- C 3.15
- D 8.45

Answer: D

Explanation:

Time in mirror image = 3.15

=> Time in actual clock will be = 8.45

=> Ans - (D)

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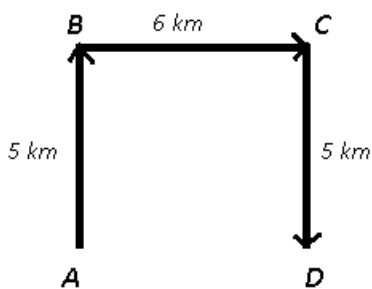
Question 32

Sunder travelled 5 km towards North, then turned towards East and travelled 6 km, then turned South and travelled 5 km. How far is he from the starting point ?

- A 11 km
- B 5 km
- C 10 km
- D 6 km

Answer: B

Explanation:



Let Sunder started from point A and head north for 5 km to reach B, then turn east and travelled for 6 km to reach C, and finally stopped at point D after walking 5 km towards south.

Thus, AD = 5 km

=> Ans - (B)

Question 33

Four words are given, Arrange them in decreasing order of the number of vowels occurring in the word, each vowel being counted with multiplicity. Should there be a tie, use dictionary order.

1. Assassination
2. Rejuvenation
3. Mississippi
4. Acrimonious

- A 4, 1, 3, 2

B 4, 2, 1, 3

C 4, 3, 1, 2

D 4, 1, 2, 3

Answer: D

**Explanation:**

Number of vowels in :

Assassination - 6

Rejuvenation - 6

Mississippi - 4

Acrimonious - 6

Decreasing order and using dictionary order, we get : 4, 1, 2, 3

=> Ans - (D)

**Question 34**

If + means  $\times$ , - means +,  $\times$  means  $\div$  and  $\div$  means -, then  $9 \times 4 + 2 - 5 \times 10 \div 3 = ?$

A 2

B  $5\frac{3}{14}$

C 3

D  $2\frac{1}{10}$

Answer: A

**Explanation:**

Expression :  $9 \times 4 + 2 - 5 \times 10 \div 3 = ?$

$\equiv 9 \div 4 \times 2 + 5 \div 10 - 3$

$= (18 \div 4) + (5 \div 10) - 3$

$= 2 + \frac{1}{2} - 3$

$= \frac{10}{2} - 3$

$= 5 - 3 = 2$

=> Ans - (A)

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**Question 35**

Arrange the following words as per order in the dictionary:

1. Mischance

2. Mischievous

3. Mischief

4. Miscellaneous

A 4, 2, 1, 3

B 4, 1, 3, 2

C 4, 3, 1, 2

D 3, 2, 4, 1

Answer: B

Explanation:

As per order in the dictionary:

= Miscellaneous -> Mischance -> Mischief -> Mischievous

$\equiv$  4, 1, 3, 2

=> Ans - (B)

Question 36

P + Q implies that P is the brother of Q, P - Q implies that P is the mother of Q, whereas P x Q implies P is the sister of Q. Which of the following implies M is the maternal uncle of R ?

A  $M - R + K$

B  $M + K \times Q$

C None of these

D  $M + K - R$

Answer: D

Explanation:

(A) :  $M - R + K = M$  is the mother of R, thus it is not possible.

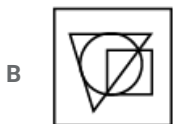
(B) :  $M + K \times Q = R$  is not given, thus it is not possible.

(D) :  $M + K - R = M$  is the brother of K and K is mother of R, => M is maternal uncle of R.

=> Ans - (D)

Question 37

Select the figure which satisfies the same conditions of placement of the dots as in question figure.



Answer: B



**Explanation:**

In the given figure, dot is placed in the intersection of Circle, Triangle, Square which is similar in second figure of the answer figures. In the other answer figures there is no intersection between all the three.

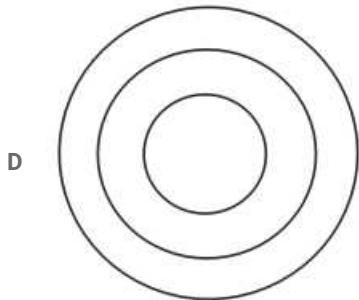
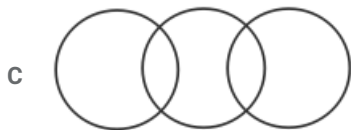
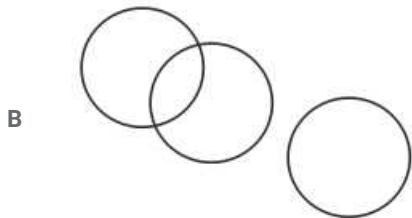
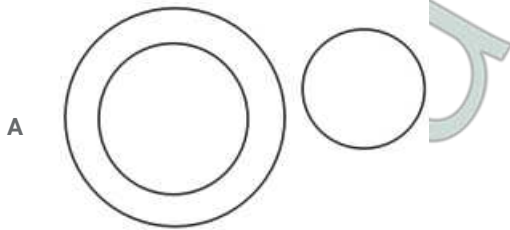
Hence, the correct answer is Option B

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**Question 38**

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

Earth, Milky-way, Universe

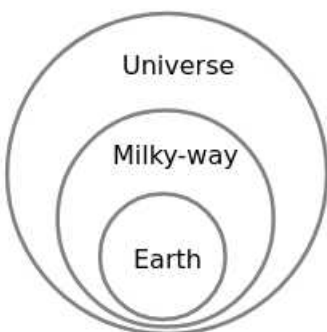


**Answer: D**

**Explanation:**

Universe consists of number of galaxies like Milky-way galaxy. Milky-way galaxy consists of Earth.

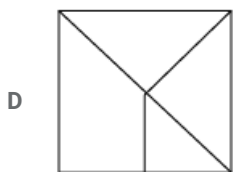
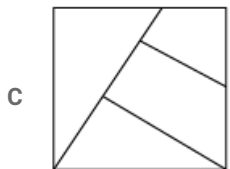
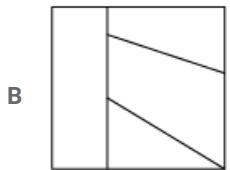
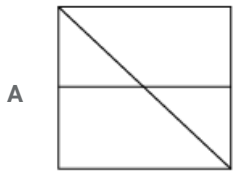
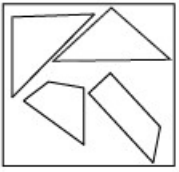
∴ The diagram that best represents the relationship between the given classes is



Hence, the correct answer is Option D

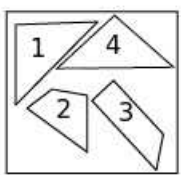
**Question 39**

Identify the answer figure from which the pieces given in the question figure have been cut.

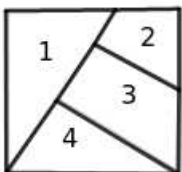


**Answer: C**

**Explanation:**



The given pieces are cut from the third figure as shown below



Hence, the correct answer is Option C

Question 40

Two statements are given each followed by two conclusions I and II. You have to consider the statements to be true, even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusion, if any, follows from the given statements.

Statements:

I. Some bricks are sticks.

II. No stick is red.

Conclusions:

I. No brick is red.

II. some bricks are not red

A Only conclusion I follows.

B Only conclusion II follows.

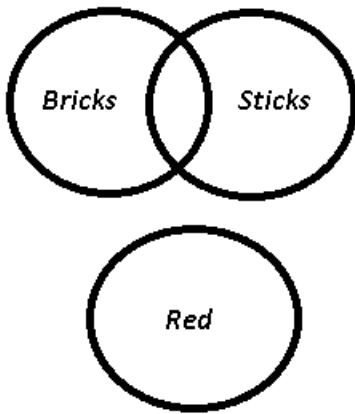
C Neither I nor II follow.

D Either I or II follow.

Answer: B

Explanation:

The venn diagram for above statements is :



Conclusions:

I. No brick is red = may or may not be true

II. some bricks are not red = true

Thus, only conclusion II follows.

=> Ans - (B)

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Question 41

Which figures have equal frequency ?

7 8 9 7 6 5 3 4 2 8 9 7 2 4 5 9 2 9 7 6 4 7

A 8, 6, 5

B 3, 7, 5

C 2, 5, 3

D 2, 4, 5

Answer: A

**Explanation:**

Number of times the number '2' occur = 3

Number of times the number '3' occur = 1

Number of times the number '4' occur = 3

Number of times the number '5' occur = 2

Number of times the number '6' occur = 2

Number of times the number '7' occur = 5

Number of times the number '8' occur = 2

Thus, frequency of (8, 6, 5) is equal.

=> Ans - (A)

**Question 42**

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

Plant, Seed, Fruit, Seedling

A 3, 1, 2, 4

B 4, 3, 1, 2

C 4, 1, 3, 2

D 3, 2, 4, 1

**Answer: C**

**Explanation:**

The given words in the meaningful order is :

Seedling -> Plant -> Fruit -> Seed

≡ 4, 1, 3, 2

=> Ans - (C)

**Question 43**

ELEPHANT is written as 57589143, LEAP can be written as

A 5618

B 7518

C 6712

D 6518

**Answer: B**

**Explanation:**

Codes for each letter is given :

L -> 7

E -> 5

A -> 1

P -> 8

Thus, LEAP : **7518**

=> Ans - (B)

## 25 SSC CHSL Mocks for just Rs. 149

### Instructions

In the following 2 question, a series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.

### Question 44

3, 13, 31, 57, 91, 133, \_\_\_\_\_

A 181

B 143

C 183

D 151

Answer: C

### Explanation:

The pattern followed is :

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

$$(3)^2 + 4 = 13$$

$$(5)^2 + 6 = 31$$

$$(7)^2 + 8 = 57$$

$$(9)^2 + 10 = 91$$

$$(11)^2 + 12 = 133$$

$$(13)^2 + 14 = 183$$

=> Ans - (C)

### Question 45

8, 16, 48, 96, 288, 576, \_\_\_\_\_

A 1052

B 1728

C 2880

D 1152

Answer: B

### Explanation:

The pattern followed is :

$$8 \times 2 = 16$$

$$16 \times 3 = 48$$

$$48 \times 2 = 96$$

$$96 \times 3 = 288$$

$$288 \times 2 = 576$$

$$576 \times 3 = 1728$$

=> Ans - (B)

**Instructions**

For the following questions answer them individually

**Question 46**

If + means  $\times$ , - means  $\div$ ,  $\div$  means +,  $\times$  means -, then the value of  $162 \times 52 \div 15 + 5$

A 247

B 235

C 185

D 215

**Answer: C**

**Explanation:**

Expression :  $162 \times 52 \div 15 + 5$

$$\equiv 162 - 52 + 15 \times 5$$

$$= 110 + (75) = 185$$

=> Ans - (C)

## SSC CHSL Free Mock Test

**Question 47**

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., I can be represented by 23, 32 etc., and A can be represented by 56, 65 etc.,. Similarly, you have to identify the set for the word RIM given in question.

Matrix-I						Matrix-II					
	0	1	2	3	4		5	6	7	8	9
0	I	M	W	S	Q	5	O	A	R	D	N
1	M	W	S	Q	I	6	A	R	D	N	O
2	W	S	Q	I	M	7	R	D	N	O	A
3	S	Q	I	M	W	8	D	N	O	A	R
4	Q	I	M	W	S	9	N	O	A	R	D

A 58, 43, 34

B 75, 14, 24

C 76, 41, 34

D 58, 43, 11

**Answer: B**

**Explanation:**

(A) : 58, 43, 34 = DWW

(B) : 75, 14, 24 = **RIM**

(C) : 76, 41, 34 = DIW

(D) : 58, 43, 11 = DWW

=> Ans - (B)

**Question 48**

In a certain code TEACHER is written as ZYXDOYK, and RAIL as KXQM. How will be CHAIR written ?

- A DOQXK
- B DOKQX
- C DOXQK
- D DQOXX

**Answer:** C

**Explanation:**

The codes for each letter is given :

- C -> D
- H -> O
- A -> X
- I -> Q
- R -> K

Thus, CHAIR : **DOXQK**

=> Ans - (C)

**Question 49**

Two statements are given. You have to answer considering the statement to be true. Even if they seem to be at variance from commonly known facts.

**Statements:**

1. James works in a factory.
2. He gets a salary.

- A James loves his work and his salary.
- B James gets paid for his work.
- C James loves his salary.
- D James likes to work in a factory.

**Answer:** B

**Explanation:**

The given statement indicates that James works in a factory and gets a salary for that. It does not mention anything about his like or dislike about his job.

Thus, only possible conclusion is that James gets paid for his work.

=> Ans - (B)

## SSC CHSL Previous Papers (DOWNLOAD PDF)

**Question 50**

In a box there are 5 different black balls, 3 different white balls and 2 different red balls. How many ways to select 2 Balls but not both same colour ?

- A 40
- B 31

C 30

D 25

Answer: B

**Explanation:**

Different combination of 2 different coloured balls

= (1 black, 1 white) , (1 black, 1 red) and (1 white, 1 red)

Number of ways of selecting 'p' items out of 'n' =  $C_p^n = \frac{n(n-1)(n-2)\dots p \text{ times}}{1 \times 2 \times 3 \times \dots \times p}$

=> Total ways to select 2 balls of different colours =  $(C_1^5 \times C_1^3) + (C_1^5 \times C_1^2) + (C_1^3 \times C_1^2)$

=  $(5 \times 3) + (5 \times 2) + (3 \times 2)$

=  $15 + 10 + 6 = 31$

=> Ans - (B)

## SSC CGL Previous Papers (DOWNLOAD PDF)

### English

**Instructions**

In the following Ten Questions, 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 alternatives and fill in the blanks.

**Passage:**

The first written number (i) is about 5000 years old and (ii) from the Sumerians in Mesopotamia. But man wanted to specify (iii) even much (iv) of the animals killed or reared. (v) the beginning, man counted using the fingers joints on (vi) hand. Even today young children are (vii) to count (viii) their fingers. It is known about the Stone Age man (ix) he used (x) by cutting notches in wood, bones and stones.

**Question 51**

(iv)

A early

B earliest

C later

D earlier

Answer: E

## SSC CGL Free Mock Test (Latest Pattern)

**Question 52**

(vi)

A One

B Each

C Every

D our

Answer: E



**Question 53**

(ii)

- A Came
- B Coming
- C Comes
- D Is coming

**Answer: E**

**Question 54**

(viii)

- A By
- B On
- C Through
- D with

**Answer: E**

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

**Question 55**

(v)

- A At
- B From
- C On
- D In

**Answer: E**

**Question 56**

(iii)

- A quantum
- B quantities
- C quantitative
- D qualities

**Answer: E**

**Question 57**

(i)

- A system
- B function
- C organization

D practice

Answer: E

## SSC CHSL Study Material

Question 58

(vii)

A teaching

B teach

C teached

D taught

Answer: E

Question 59

(x)

A signs

B marks

C tallies

D symbol

Answer: E

Question 60

(ix)

A what

B how

C when

D that

Answer: E

## SSC CHSL Free App

### Instructions

In the following Four Questions, out of the four alternatives, choose the one which can be substituted for the given sentences and indicate it by blackening the appropriate circle in the Answer Sheet.

**Question 61**

An author's handwritten or typed text, submitted for publication.

- A Pamphlet
- B Manuscript
- C Papyrus
- D Replica

**Answer: B**

**Question 62**

With no particular order or plan.

- A Hazard
- B Hazardous
- C Hopeless
- D Haphazard

**Answer: D**

**Question 63**

A position or an office with no work but high salary.

- A Sinecure
- B Tenure
- C White collar job
- D Monarchy

**Answer: A**

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**Question 64**

One who deals in furs.

- A Tanner
- B Furrier
- C Lapidist
- D Drover

**Answer: B**

**Question 65**

Find the correctly spelt word.

- A Whimsecal
- B Whimsicol
- C Whimsical
- D Whymysical

Answer: E

**Question 66**

Find the correctly spelt word.

- A Perseverance
- B Persaverence
- C Preserverence
- D Perserverance

Answer: E

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**Question 67**

Find the correctly spelt word.

- A Intercession
- B Intercestion
- C Intersession
- D Intercesion

Answer: E

**Question 68**

Find the correctly spelt word.

- A Differentiasion
- B Diferrentiation
- C Diferentiation
- D Differentiation

Answer: E

**Instructions**

In the following Four Questions, 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 69**

**Back to square one**

- A To be able to count
- B To complete a game
- C To start again
- D To replay a game of chess

Answer: E

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Question 70

As the crow files

- A In a monotonous way
- B In a straight way
- C In a criss-cross way
- D In a circular way

Answer: E

Question 71

If you are no spring chicken, you are

- A inexperienced
- B not young
- C A dead chicken
- D Not energetic

Answer: E

Question 72

To strike a chord

- A To hit the wrong note
- B To strum a guitar
- C To be reminded of something familiar
- D To hit the chords forcefully

Answer: E

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Instructions

In the following **Four** Questions, the first and the last part of sentence are numbered I and 6. The rest of the sentence is split into four parts and named P, Q, R and 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 73

- I. In his life time
  - P. and immense wealth
  - Q. Manpassant earned world-wide fame
  - R. untimely end to the brilliant
  - S. But unfortunately, insanity brought an
6. Career of this great genius

- A QPSR
- B PQRS
- C SPQR
- D QRSP

Answer: E

Question 74

- I. He had spent
  - P. to see him off
  - Q. and I was now
  - R. accompanying him across the river
  - S. a fortnigh with me
6. For his long railway journey home.

- A PRQS
- B SQRP
- C PSQR
- D QSRP

Answer: E

Question 75

- I. The history of India.
  - P. human activity of Homo sapiens as long as
  - Q. earlier hominids including Homo-erectus
  - S. begins with evidence of
6. From about 5,00,000 years ago.

- A SPQR
- B PQRS
- C SRQP
- D QSPR

Answer: E

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**Question 76**

I. In this modern world of consumerism

- P. both for the young and old
- Q. who can defeat consistently
- R. tempting advertisements
- S. tempting advertisements
- 6. the desire to buy new products ?

- A RSPQ
- B RSQP
- C ORSP
- D PRSQ

**Answer: E**

**Instructions**

In the following Four Questions, choose the word opposite in meaning to the given word and mark it in the Answer Sheet.

**Question 77**

**Adversity**

- A Anger
- B Humility
- C Humbleness
- D Prosperity

**Answer: E**

**Question 78**

**Perceptive**

- A Unaware
- B Unconscious
- C Indiscreet
- D Blunt

**Answer: E**

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**Question 79**

**Dainty**

- A Harmful
- B Clumsy
- C Dry

D Afraid

Answer: E

Question 80

Ferocious

A Practical

B Reassuring

C Strong

D Gentle

Answer: E

Instructions

In the following Two questions, 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 81

Both his parents approved of his decision.

A His decision has been approved of.

B His parent's decision was approved of by him.

C His decision got approved by both his parents.

D His decision was approved by both his parents.

Answer: E

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Question 82

You must keep your promises.

A Your promises must kept by you.

B Your promises were kept by you.

C Your promises are kept.

D Your promises must be kept.

Answer: E

Instructions

In the following Four Questions, 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" in the Answer Sheet.

Question 83

Before every meal the head of the family would provoke God's blessings.



- A Before every meal
- B The head of the family
- C No error
- D Would provoke God's blessings.

Answer: D

**Question 84**

**I have been invited to a party hosted by my cousin sister.**

- A I have been
- B Hosted by my cousin sister.
- C No error
- D Invited to a party

Answer: C

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**Question 85**

**Dogs soon recognize the persons by whom they are kindly treated.**

- A The persons by whom
- B No error
- C They are kindly treated
- D Dogs soon recognize

Answer: B

**Question 86**

**He declared that he wore no man's mantle.**

- A He declared
- B No man's mantle
- C That he wore
- D No error

Answer: D

**Instructions**

In the following Four Questions, a part of the sentence is underlined. Below are given alternatives to the underlined part which may improve the sentence. Choose the correct alternative. In case no improvement is needed blacken the circle corresponding to "No Improvement" in the Answer Sheet.

**Question 87**

His determination was not shook by what people said.

- A Was not shaken
- B No improvement
- C Was not shaking
- D Was not shaken

**Answer: D**

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**Question 88**

I cannot barely wait for my birthday party.

- A I barely wait
- B No improvement
- C I barely cannot wait
- D I can barely wait

**Answer: D**

**Question 89**

The observatory building is situated in a remote corner of the zoo.

- A No improvement
- B Close
- C Distant
- D far

**Answer: A**

**Question 90**

If you would have seen him perform in the London Olympic Games, you would have been thrilled.

- A Had you seen him perform
- B No improvement
- C If you have had seen him perform
- D Had you been seeing him perform

**Answer: A**

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**Instructions**

In the following Two Questions, a sentence has been given in Direct / Indirect. Out of the four alternatives suggested, select the one which best expresses the same sentence in Indirect / Direct and mark your answer in the Answer Sheet.

**Question 91**

**"Hurrah ! said the girls, we have won the match by an inning".**

- A The girls exclaimed happily that they has won the match by an inning.
- B The girls exclaimed happily that they had won the match by an inning.
- C The girls exclaimed happily that they have won the match by an inning.
- D The girls exclaimed happily that they would have won the match by an inning.

**Answer: E**

**Question 92**

**The children said that they wanted to go on a picnic.**

- A The children said. "We want to go on a picnic"
- B The children said, "We are wanting to go on a picnic".
- C The children said, "We wanted to go on a picnic".
- D The children said, "We will want to go on a picnic"

**Answer: E**

**Instructions**

In the following Four questions, 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 93**

**Previous**

- A After
- B Earliest
- C Latest
- D Former

**Answer: E**

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

**Question 94**

**Mayhem**

- A Excitement
- B Jubilation
- C Havoc
- D Defeat

Answer: E

**Question 95**

**Rely**

- A Lean
- B Trust
- C Betray
- D Depend

Answer: E

**Question 96**

**Cessation**

- A Start
- B End
- C Pause
- D Resume

Answer: E

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**Instructions**

In the following Four Questions, sentences given with blanks to be filled in with an appropriate word(s). Four alternatives 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 97**

Steve has always hoped that his father would \_\_\_\_\_ the property to him.

- A Bespoke
- B Disclaim
- C Bequeath
- D Beseech

Answer: E

**Question 98**

I never \_\_\_\_\_ such a result.

- A Think of
- B Dreamt of
- C Dream of
- D Dreamed of

Answer: E

Question 99

This ship is \_\_\_\_\_ Geneva.

- A Bound of
- B Destined to
- C Bound for
- D Bound to

Answer: E

## SSC CHSL Study Material

Question 100

If you \_\_\_\_\_ in your studies, you will get a

- A Indulge
- B Persevere
- C Adhere
- D Insist

Answer: E

## SSC CHSL Free App

### Quant

#### Instructions

For the following questions answer them individually

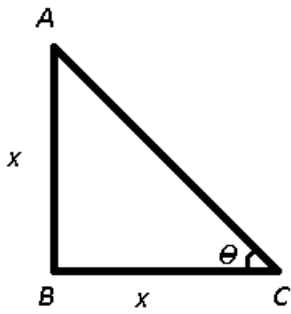
Question 101

The angle of elevation of the Sun when the length of the shadow of a pole is equal to its height, is

- A  $60^\circ$
- B  $30^\circ$
- C  $45^\circ$
- D  $90^\circ$

Answer: C

Explanation:



Height of pole AB = Length of shadow BC =  $x$

In  $\triangle ABC$ ,

$$\Rightarrow \tan(\angle ACB) = \frac{AB}{BC}$$

$$\Rightarrow \tan\theta = \frac{x}{x}$$

$$\Rightarrow \tan\theta = 1$$

$$\Rightarrow \theta = \tan^{-1}(1) = 45^\circ$$

$\Rightarrow$  Ans - (C)

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#### Question 102

If  $\frac{3}{4}$  of ₹100 is  $x\%$  larger than  $\frac{3}{4}\%$  of ₹100, then  $x$  is

- A 9900
- B 9000
- C 2500
- D 7500

Answer: A

#### Explanation:

$$\frac{3}{4} \text{ of } ₹100 = \frac{3}{4} \times 100 = 75$$

$$\frac{3}{4}\% \text{ of } ₹100 = \frac{3}{4 \times 100} \times 100 = \frac{3}{4} = 0.75$$

According to ques,

$$\Rightarrow x = \frac{(75 - 0.75)}{0.75} \times 100$$

$$= \frac{74.25}{3} \times 400$$

$$= 24.75 \times 400 = 9900$$

$\Rightarrow$  Ans - (A)

#### Question 103

If  $(a + \frac{1}{a})^2 = 3$ , then find the value of  $a^{30} + a^{24} + a^{18} + a^{12} + a^6 + 1$

- A -1
- B 1
- C 27

D 0

Answer: D

Explanation:

Given :  $(a + \frac{1}{a})^2 = 3$

$\Rightarrow (a + \frac{1}{a}) = \sqrt{3}$ -----(i)

Cubing both sides, we get :

$\Rightarrow (a + \frac{1}{a})^3 = (\sqrt{3})^3$

$\Rightarrow a^3 + \frac{1}{a^3} + 3(a)(\frac{1}{a})(a + \frac{1}{a}) = 3\sqrt{3}$

$\Rightarrow a^3 + \frac{1}{a^3} + 3\sqrt{3} = 3\sqrt{3}$

$\Rightarrow a^3 + \frac{1}{a^3} = 0$

$\Rightarrow \frac{a^6+1}{a^3} = 0$

$\Rightarrow a^6 = -1$

To find :  $a^{30} + a^{24} + a^{18} + a^{12} + a^6 + 1$

$= (a^6)^5 + (a^6)^4 + (a^6)^3 + (a^6)^2 + (a^6) + 1$

$= (-1)^5 + (-1)^4 + (-1)^3 + (-1)^2 + (-1) + 1$

$= -1 + 1 - 1 + 1 - 1 + 1 = 0$

$\Rightarrow$  Ans - (D)

**Question 104**

The average monthly income of a family of 4 earning members was ₹6,250. One of the earning member died, thereby, the average became ₹6,500. The monthly income (in rupees) of the deceased was

A 5,000

B 6,000

C 5,900

D 5,500

Answer: D

Explanation:

Average monthly income of a family of 4 earning members = Rs. 6,250

$\Rightarrow$  Total monthly income of a family of 4 earning members =  $6250 \times 4 = Rs. 25,000$

Similarly, total monthly income of a family of 3 earning members =  $6500 \times 3 = Rs. 19,500$

$\therefore$  The monthly income (in rupees) of the deceased =  $25,000 - 19,500 = Rs. 5,500$

$\Rightarrow$  Ans - (D)

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**Question 105**

Tushar borrowed a sum of ₹12,000 at 15% per annum from a money-lender on 13th January, 1987 and return the amount on 8th June, 1987 to clear his debt. Then the amount paid by Tushar to the money-lender to clear his debt was

A ₹11,394

- B ₹12,720
- C ₹13,650
- D ₹15,330

**Answer: B**

**Explanation:**

Sum borrowed = Rs. 12,000 at rate of interest = 15%

Time period = 18 + 28 + 31 + 30 + 31 + 8 = 146 days

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

$$= \frac{12,000 \times 15 \times 146}{365 \times 100}$$

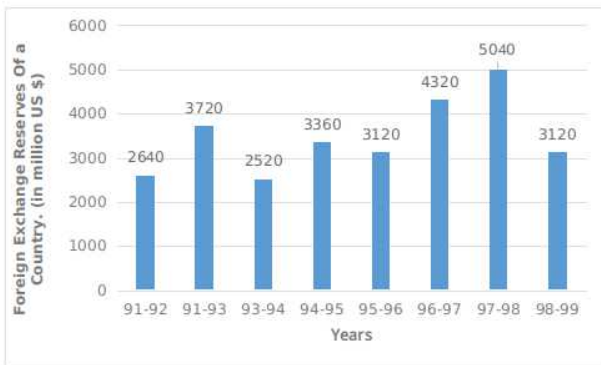
$$= \frac{120 \times 15}{2.5} = 120 \times 6 = \text{Rs. } 720$$

∴ Amount paid by Tushar to the money-lender to clear his debt = 12,000 + 720 = Rs. 12,720

=> Ans - (B)

**Instructions**

The bar graph shows the foreign exchange reserve of a country (in million US \$) from 1991-92 to 1998-99. Based on the bar graph answer the 5 questions.



**Question 106**

For which year, the percent increase of foreign exchange reserves over the previous year is the highest ?

- A 1995-96
- B 1998-99
- C 1994-95
- D 1992-93

**Answer: D**

**Explanation:**

Percent increase of foreign exchange reserves over the previous year :

(A) : 1995-96 = It decreased as compared to previous year.

(B) : 1998-99 = It decreased as compared to previous year.

(C) : 1994-95 =  $\frac{(3360 - 2520)}{2520} \times 100 = 33.33\%$

(D) : 1992-93 =  $\frac{(3720 - 2640)}{2640} \times 100 = 40.9\%$  [MAX]

=> Ans - (D)



**Question 107**

What was the percentage increase in the foreign exchange reserves in 1997-98 over 1993-94 ?

- A 100%
- B 90%
- C 110%
- D 80%

**Answer:** A

**Explanation:**

Foreign exchange reserves in 1997-98 (in million US \$) = 5040

Foreign exchange reserves in 1993-94 (in million US \$) = 2520

$$\Rightarrow \text{Required \% increase} = \frac{(5040 - 2520)}{2520} \times 100$$

$$= \frac{2520}{2520} \times 100 = 100\%$$

$\Rightarrow$  Ans - (A)

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**Question 108**

The ratio of the number of years, in which the foreign exchange reserves are above the average reserves, to those in which the reserves are below the average is

- A 3 : 7
- B 4 : 7
- C 5 : 3
- D 3 : 5

**Answer:** D

**Explanation:**

Total number of foreign exchange reserves (in million US \$) in the given years

$$= 2640 + 3720 + 2520 + 3360 + 3120 + 4320 + 5040 + 3120 = 27,840$$

$$\Rightarrow \text{Average foreign exchange reserves (in million US \$)} = \frac{27,840}{8} = 3480$$

Number of years in which the foreign exchange reserves are above the average reserves = 3 (92-93, 96-97, 97-98)

Number of years in which the foreign exchange reserves are below the average reserves = 5

$$\Rightarrow \text{Required ratio} = 3 : 5$$

$\Rightarrow$  Ans - (D)

**Question 109**

The foreign exchange reserves in 1997-98 was how many times that in 1994-95 ?

- A 1.5
- B 2.6
- C 2

D 3.5

**Answer: A**

**Explanation:**

Foreign exchange reserves in 1997-98 (in million US \$) = 5040

Foreign exchange reserves in 1994-95 (in million US \$) = 3360

$$\Rightarrow \text{Required ratio} = \frac{5040}{3360} = 1.5$$

$\Rightarrow$  Ans - (A)

**Question 110**

The foreign exchange reserves in 1996-97 were approximately what percent of the average foreign exchange reserves over the period under review ?

A 80%

B 125%

C 120%

D 100%

**Answer: B**

**Explanation:**

Total number of foreign exchange reserves (in million US \$) in the given years

$$= 2640 + 3720 + 2520 + 3360 + 3120 + 4320 + 5040 + 3120 = 27,840$$

$$\Rightarrow \text{Average foreign exchange reserves (in million US \$)} = \frac{27,840}{8} = 3480$$

Foreign exchange reserves in 1996-97 (in million US \$) = 4320

$$\Rightarrow \text{Required \%} = \frac{4320}{3480} \times 100 \approx 125\%$$

$\Rightarrow$  Ans - (B)

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**Instructions**

For the following questions answer them individually

**Question 111**

A solid cuboid of dimensions 8 cm x 4 cm x 2 cm is melted and cast into identical cubes of edge 2 cm. Number of such identical cubes is

A 8

B 4

C 10

D 16

**Answer: A**

**Explanation:**

Length, breadth and height of cuboid respectively are = 8 cm, 4 cm and 2 cm

Side of cube = 2 cm

$$\Rightarrow \text{Number of cubes formed} = \frac{\text{Volume of cuboid}}{\text{Volume of cube}}$$

$$= \frac{l \times b \times h}{a^3}$$

$$= \frac{8 \times 4 \times 2}{2^3}$$

$$= 4 \times 2 = 8$$

=> Ans - (A)

**Question 112**

A man walks a certain distance in certain time, if he had gone 3 km an hour faster, he would have taken 1 hour less than the schedule time. If he had gone 2 km an hour slower, he would have been one hour longer on the road. The distance (in km) is

- A 45
- B 65
- C 80
- D 60

Answer: D

**Explanation:**

Let ideal speed of man =  $s$  km/hr and ideal time =  $t$  hours

=> Distance =  $d = st$  -----(i)

According to ques, =>  $d = (s + 3)(t - 1)$

=>  $d = st - s + 3t - 3$

Thus, using equation (i), =>  $3t - s = 3$  -----(ii)

Also,  $d = (s - 2)(t + 1)$

=>  $d = st + s - 2t - 2$

=>  $-2t + s = 2$  -----(iii)

Adding equations (ii) and (iii), we get :

=>  $3t - 2t = 3 + 2$

=>  $t = 5$

Substituting above value in equation (ii), =>  $s = 3(5) - 3 = 15 - 3 = 12$

∴ Distance =  $12 \times 5 = 60$  km

=> Ans - (D)

**Question 113**

The length of a rectangle is twice the breadth. If area of the rectangle be 417.605 sq.m., then length is

- A 29.08 m
- B 29.80 m
- C 28.90 m
- D 28.09 m

Answer: C

**Explanation:**

Let breadth =  $x$  m and length =  $2x$  m

=> Area of rectangle =  $l \times b = 417.605$

$$\Rightarrow 2x^2 = 417.605$$

$$\Rightarrow x^2 = \frac{417.605}{2} = 208.8025$$

$$\Rightarrow x = \sqrt{208.8025} = 14.45$$

$\therefore$  Length =  $2 \times 14.45 = 28.90$  m

$\Rightarrow$  Ans - (C)

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**Question 114**

If a chair sold for ₹600 at the profit of 20% then the original price of the chair is

- A ₹580
- B ₹480
- C ₹540
- D ₹500

**Answer: D**

**Explanation:**

Selling price = Rs. 600

Profit % = 20%

$$\Rightarrow \text{Cost price} = \frac{600}{100+20} \times 100$$

$$= 5 \times 100 = \text{Rs. } 500$$

$\Rightarrow$  Ans - (D)

**Question 115**

The centres of three circles of equal radii, touching each other externally form a/an

- A Right angle triangle
- B Isosceles triangle
- C Equilateral triangle
- D Scalene triangle

**Answer: C**

**Explanation:**

The centres of three circles of equal radii, touching each other externally form an **Equilateral triangle**.

$\Rightarrow$  Ans - (C)

**Question 116**

The value of  $\frac{3\sqrt{7}}{\sqrt{5}+\sqrt{2}} - \frac{5\sqrt{5}}{\sqrt{2}+\sqrt{7}} + \frac{2\sqrt{2}}{\sqrt{7}+\sqrt{5}}$  is

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

D  $\sqrt{7}$

Answer: B

Explanation:

$$\text{Expression: } \frac{3\sqrt{7}}{\sqrt{5}+\sqrt{2}} - \frac{5\sqrt{5}}{\sqrt{2}+\sqrt{7}} + \frac{2\sqrt{2}}{\sqrt{7}+\sqrt{5}}$$

$$= \left( \frac{3\sqrt{7}}{\sqrt{5}+\sqrt{2}} \times \frac{\sqrt{5}-\sqrt{2}}{\sqrt{5}-\sqrt{2}} \right) - \left( \frac{5\sqrt{5}}{\sqrt{7}+\sqrt{2}} \times \frac{\sqrt{7}-\sqrt{2}}{\sqrt{7}-\sqrt{2}} \right) + \left( \frac{2\sqrt{2}}{\sqrt{7}+\sqrt{5}} \times \frac{\sqrt{7}-\sqrt{5}}{\sqrt{7}-\sqrt{5}} \right)$$

Using,  $(a + b)(a - b) = a^2 - b^2$

$$= \frac{3\sqrt{7}(\sqrt{5}-\sqrt{2})}{5-2} - \frac{5\sqrt{5}(\sqrt{7}-\sqrt{2})}{7-2} + \frac{2\sqrt{2}(\sqrt{7}-\sqrt{5})}{7-5}$$

$$= \frac{3\sqrt{7}(\sqrt{5}-\sqrt{2})}{3} - \frac{5\sqrt{5}(\sqrt{7}-\sqrt{2})}{5} + \frac{2\sqrt{2}(\sqrt{7}-\sqrt{5})}{2}$$

$$= \sqrt{7}(\sqrt{5} - \sqrt{2}) - \sqrt{5}(\sqrt{7} - \sqrt{2}) + \sqrt{2}(\sqrt{7} - \sqrt{5})$$

$$= \sqrt{35} - \sqrt{14} - \sqrt{35} + \sqrt{10} + \sqrt{14} - \sqrt{10} = 0$$

=> Ans - (B)

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Question 117

How much percentage above the cost price should a shopkeeper mark his good so that after allowing a discount of 10% he should gain 26% ?

A 25%

B 140%

C 40%

D 16%

Answer: C

Explanation:

Let Cost price = Rs. 100

Profit % = 26%

$$\Rightarrow \text{Selling price} = 100 + \left( \frac{26}{100} \times 100 \right)$$

$$= 100 + 26 = \text{Rs. } 126$$

Discount % = 10%

$$\Rightarrow \text{Marked price} = \frac{126}{(100-10)} \times 100$$

$$= 14 \times 10 = \text{Rs. } 140$$

$$\therefore \text{Markup \%} = \frac{(140-100)}{100} \times 100 = 40\%$$

=> Ans - (C)

Question 118

30% of the students in a class has mobile phones, 10% of the students who have mobile phones has a bluetooth facility. If the class has 200 students, how many have bluetooth facility ?

A 2

B 6

C 8

D 7

Answer: B

Explanation:

Total students = 200

Students who have mobile phones =  $\frac{30}{100} \times 200 = 60$

=> Students who have bluetooth facility =  $\frac{10}{100} \times 60 = 6$

=> Ans - (B)

Question 119

In  $\triangle ABC$ , O is the orthocentre and  $\angle BOC = 80^\circ$ , the measure of  $\angle BAC$  is

A  $120^\circ$

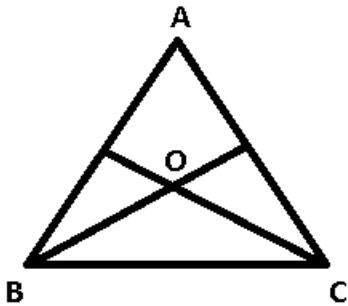
B  $90^\circ$

C  $100^\circ$

D  $80^\circ$

Answer: C

Explanation:



Given :  $\angle BOC = 80^\circ$

To find :  $\angle BAC = ?$

Solution : In case of orthocentre, we have :

$\angle BOC + \angle BAC = 180^\circ$

=>  $80^\circ + \angle BAC = 180^\circ$

=>  $\angle BAC = 180 - 80 = 100^\circ$

=> Ans - (C)

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

Question 120

If  $x : y = 3 : 5$  and  $x - y = -2$ , then the value of  $x + y$  is

A 2

B 5

C 8

D 3

Answer: C

Explanation:

Given =  $x : y = 3 : 5$  and  $x - y = -2$

Let  $x = 3a$  and  $y = 5a$

$$\Rightarrow 3a - 5a = -2a = -2$$

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

$$\therefore x + y = 3a + 5a = 8a = 8 \times 1 = 8$$

$\Rightarrow$  Ans - (C)

Question 121

Successive discount of 10%, 20% and 25% on the price of an article will reduce the price by

A 55%

B 45%

C 46%

D 54%

Answer: C

Explanation:

Let marked price = Rs. 100

$$\text{After 1st discount of 10\%, price} = 100 - \left(\frac{10}{100} \times 100\right)$$

$$= 100 - 10 = 90$$

$$\text{After 2nd discount of 20\% (on changed price), selling price} = 90 - \left(\frac{20}{100} \times 90\right)$$

$$= 90 - 18 = \text{Rs. } 72$$

$$\text{After 3rd discount of 25\%, net selling price} = 72 - \left(\frac{25}{100} \times 72\right)$$

$$= 72 - 18 = \text{Rs. } 54$$

$$\therefore \text{Price is reduced by} = \frac{(100 - 54)}{100} \times 100 = 46\%$$

$\Rightarrow$  Ans - (C)

Question 122

A is a point on the x-axis with abscissa - 8 and B is the point on the y-axis with ordinate 15. The length of AB is

A 19 units

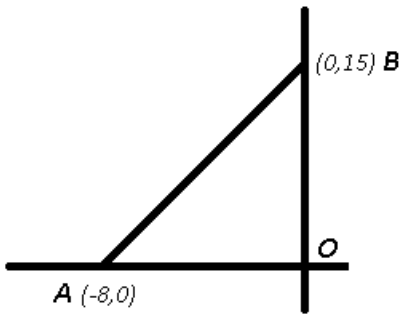
B 21 units

C 17 units

D 23 units

Answer: C

Explanation:



Now,  $OA = 8$  units and  $OB = 15$  units

$$\Rightarrow (AB)^2 = (OA)^2 + (OB)^2$$

$$\Rightarrow (AB)^2 = (8)^2 + (15)^2$$

$$\Rightarrow (AB)^2 = 64 + 225 = 289$$

$$\Rightarrow AB = \sqrt{289} = 17 \text{ units}$$

$\Rightarrow$  Ans - (C)

## SSC CHSL Free Mock Test

### Question 123

If  $\frac{a}{b} = \frac{7}{9}$ ,  $\frac{b}{c} = \frac{3}{5}$ , then the value of  $a : b : c$  is

A 7 : 9 : 5

B 21 : 35 : 45

C 7 : 9 : 15

D 7 : 3 : 15

Answer: C

### Explanation:

$$\text{Given } \frac{a}{b} = \frac{7}{9}, \frac{b}{c} = \frac{3}{5}$$

$$\Rightarrow \frac{a}{b} = \frac{7}{9} \text{ -----(i)}$$

$$\text{and } \frac{b}{c} = \frac{3}{5} \text{ -----(ii)}$$

Multiplying equation (ii) by '3', we get :  $\frac{b}{c} = \frac{9}{15}$

Now, the value of  $b$  is same in both equation,  $\Rightarrow a : b : c = 7 : 9 : 15$

$\Rightarrow$  Ans - (C)

### Question 124

If  $\sin \theta = \frac{a}{b}$ , then the value of  $\sec \theta - \cos \theta$  is (where  $0^\circ < \theta < 90^\circ$ )

A  $\frac{b^2}{a\sqrt{b^2-a^2}}$

B  $\frac{\sqrt{b^2+a^2}}{\sqrt{b^2-a^2}}$

C  $\frac{a^2}{b\sqrt{b^2-a^2}}$



D  $\frac{a}{b\sqrt{b^2-a^2}}$

Answer: D

Explanation:

Given :  $\sin \theta = \frac{a}{b}$

Thus, using  $\cos \theta = \sqrt{1 - \sin^2 \theta}$

$\Rightarrow \cos \theta = \sqrt{1 - \left(\frac{a}{b}\right)^2}$

$\Rightarrow \cos \theta = \frac{\sqrt{b^2-a^2}}{b}$

To find :  $\sec \theta - \cos \theta$

$= \frac{1}{\cos \theta} - \cos \theta$

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

$= \left(\frac{a^2}{b^2}\right) \div \left(\frac{\sqrt{b^2-a^2}}{b}\right)$

$= \left(\frac{a^2}{b^2}\right) \times \left(\frac{b}{\sqrt{b^2-a^2}}\right)$

$= \frac{a^2}{b\sqrt{b^2-a^2}}$

$\Rightarrow$  Ans - (D)

Question 125

The expression  $\sqrt{\frac{1+\sin \theta}{1-\sin \theta}} + \sqrt{\frac{1-\sin \theta}{1+\sin \theta}}$  is equal to

A  $2 \sec \theta$

B  $2 \tan \theta$

C  $\frac{2(1-\sin \theta)}{\cos \theta}$

D  $2 \sin \theta$

Answer: A

Explanation:

Expression :  $\sqrt{\frac{1+\sin \theta}{1-\sin \theta}} + \sqrt{\frac{1-\sin \theta}{1+\sin \theta}}$

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

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

$= \frac{2}{\cos \theta} = 2 \sec \theta$

$\Rightarrow$  Ans - (A)

## SSC CHSL Previous Papers (DOWNLOAD PDF)

Question 126

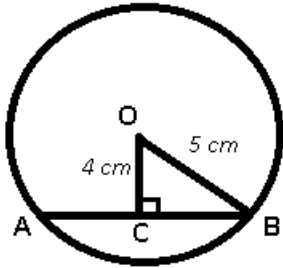
The diameter of a circle is 10 cm. If the distance of a chord from the centre of the circle be 4 cm, then the length of the chord is

A 6 cm

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

Answer: A

Explanation:



Given : OB is the radius of circle = 5 cm and OC = 4 cm

To find : AB = ?

Solution : The line from the centre of the circle to the chord bisects it at right angle.

$$\Rightarrow AC = BC = \frac{1}{2} AB$$

In  $\triangle OBC$ ,

$$\Rightarrow (BC)^2 = (OB)^2 - (OC)^2$$

$$\Rightarrow (BC)^2 = (5)^2 - (4)^2$$

$$\Rightarrow (BC)^2 = 25 - 16 = 9$$

$$\Rightarrow BC = \sqrt{9} = 3 \text{ cm}$$

$$\therefore AB = 2 \times BC$$

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

$\Rightarrow$  Ans - (A)

#### Question 127

The rate percent of compound interest on ₹10,000 amounts to become ₹13,310 in 3 years is

- A 13%
- B 11%
- C 12%
- D 10%

Answer: D

Explanation:

Principal sum = Rs. 10,000 and let rate of interest =  $r\%$

$\Rightarrow$  Amount after 3 years = Rs. 13,310

$$\text{Amount under compound interest} = P\left(1 + \frac{R}{100}\right)^T$$

$$\Rightarrow 10,000\left(1 + \frac{r}{100}\right)^3 = 13,310$$

$$\Rightarrow \left(1 + \frac{r}{100}\right)^3 = \frac{13,310}{10,000} = 1.331$$

$$\Rightarrow 1 + \frac{r}{100} = \sqrt[3]{1.331}$$

$$\Rightarrow \frac{r}{100} = 1.1 - 1 = 0.1$$

$$\Rightarrow r = 0.1 \times 100 = 10\%$$

$\Rightarrow$  Ans - (D)

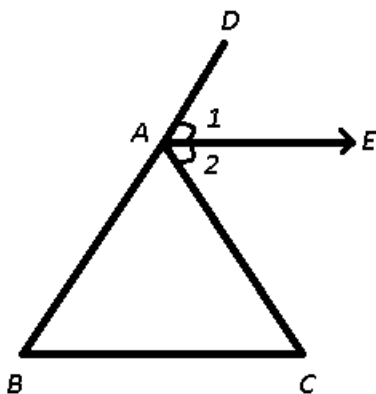
#### Question 128

If the external bisector of the vertical angle  $\angle A$  of the  $\triangle ABC$  is parallel to the base BC, then the  $\triangle ABC$  is a/an

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

Answer: B

Explanation:



AE is the bisector of the exterior  $\angle DAC$  of the  $\triangle ABC$  and  $AE \parallel BC$

Now,  $\angle 1 = \angle 2$  (given)

Also,  $\angle B = \angle 1$  (Corresponding angle)

and  $\angle C = \angle 2$  (Alternate angle)

$$\Rightarrow \angle B = \angle C$$

$$\Rightarrow AB = AC$$

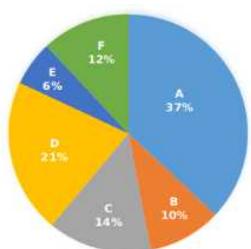
So,  $\triangle ABC$  is an isosceles triangle.

$\Rightarrow$  Ans - (B)

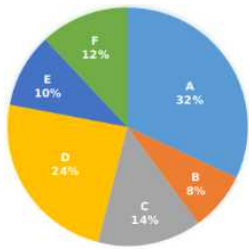
## SSC CGL Previous Papers (DOWNLOAD PDF)

#### Instructions

Study the following pie-charts carefully and answer the 4 questions.



Pie-chart-1



Pie-chart-2

- A = Science  
 B = Management  
 C = Arts  
 D = Commerce  
 E = Catering  
 F = Engineering

- (i) Percentage distribution of candidates studying in various discipline of a college. Total number of students = 5000  
 (ii) Percentage distribution of girls in each discipline of the same college Total number of girls = 2000

**Question 129**

The number of girls studying in Engineering discipline is

- A 180  
 B 220  
 C 240  
 D 260

**Answer: C**

**Explanation:**

Total number of girls = 2000

% of girls in Engineering discipline = 12%

$$\Rightarrow \text{Number of girls studying in Engineering discipline} = \frac{12}{100} \times 2000$$

$$= 12 \times 200 = 240$$

$\Rightarrow$  Ans - (C)

**Question 130**

The percentage of the number of girls studying in Catering discipline comparing to the total number of students in the college is

- A 2  
 B 8  
 C 4  
 D 3

**Answer: C**

**Explanation:**

Total number of students in the college = 5000

Total number of girls = 2000

% of girls in Catering discipline = 10%

$$\Rightarrow \text{Number of girls studying in Catering discipline} = \frac{10}{100} \times 2000 = 200$$

$$\therefore \text{Require \%} = \frac{200}{5000} \times 100$$

$$= \frac{200}{50} = 4\%$$

=> Ans - (C)

#### Question 131

The discipline which has the highest number of boys studying in it, is

- A Management
- B Arts
- C Commerce
- D Science

**Answer: D**

#### Explanation:

Number of boys in :

$$(A) : \text{Management} = \left(\frac{10}{100} \times 5000\right) - \left(\frac{8}{100} \times 2000\right)$$
$$= 500 - 160 = 340$$

$$(B) : \text{Arts} = \left(\frac{14}{100} \times 5000\right) - \left(\frac{14}{100} \times 2000\right)$$
$$= \frac{14}{100} \times 3000 = 420$$

$$(C) : \text{Commerce} = \left(\frac{21}{100} \times 5000\right) - \left(\frac{24}{100} \times 2000\right)$$
$$= 1050 - 480 = 570$$

$$(D) : \text{Science} = \left(\frac{37}{100} \times 5000\right) - \left(\frac{32}{100} \times 2000\right)$$
$$= 1850 - 640 = 1210 \quad \text{[MAX]}$$

=> Ans - (D)

## SSC CGL Free Mock Test (Latest Pattern)

#### Question 132

The percentage of the boys studying in Management discipline comparing to the total number of students studying in that discipline is

- A 48
- B 58
- C 64
- D 68

**Answer: D**

#### Explanation:

Total number of students in the college = 5000

$$\text{Number of students in Management discipline} = \frac{10}{100} \times 5000 = 500$$

Total number of girls = 2000

% of girls in Management discipline = 8%

$$\Rightarrow \text{Number of girls studying in Management discipline} = \frac{8}{100} \times 2000 = 160$$

=> Number of boys studying in Management discipline =  $500 - 160 = 340$

∴ Require % =  $\frac{340}{500} \times 100$

=  $\frac{340}{5} = 68\%$

=> Ans - (D)

### Instructions

For the following questions answer them individually

### Question 133

If the length of a diagonal of a square is  $6\sqrt{2}$  cm, then its area will be

A  $24\sqrt{2} \text{ cm}^2$

B  $24 \text{ cm}^2$

C  $72 \text{ cm}^2$

D  $36 \text{ cm}^2$

Answer: D

### Explanation:

Let side of the square =  $s$  cm and length of diagonal =  $6\sqrt{2}$  cm

=>  $(s)^2 + (s)^2 = (6\sqrt{2})^2$

=>  $2s^2 = 72$

=>  $s^2 = \frac{72}{2} = 36$  -----(i)

∴ Area of square =  $s^2 = 36 \text{ cm}^2$

=> Ans - (D)

### Question 134

The length of tangent drawn from an external point P to a circle of radius 5 cm is 12 cm. The distance of P from the centre of the circle is

A 7 cm

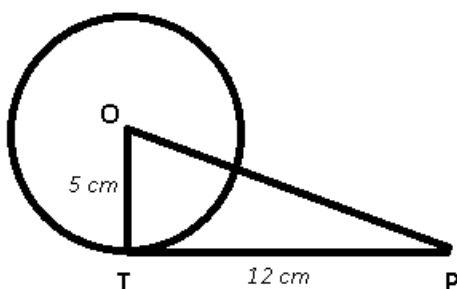
B 9 cm

C 13 cm

D 12 cm

Answer: C

### Explanation:



Given : OT is radius of circle = 5 cm and tangent PT = 12 cm

To find : OP = ?

Solution : The radius of a circle intersects the tangent at right angle,  $\Rightarrow \angle OTP = 90^\circ$

Thus in  $\triangle OPT$ ,

$$\Rightarrow (OP)^2 = (PT)^2 + (OT)^2$$

$$\Rightarrow (OP)^2 = (12)^2 + (5)^2$$

$$\Rightarrow (OP)^2 = 144 + 25 = 169$$

$$\Rightarrow OP = \sqrt{169} = 13 \text{ cm}$$

$\Rightarrow$  Ans - (C)

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

### Question 135

In two days A, B and C together can finish  $\frac{1}{2}$  of a work and in another 2 days B and C together can finish  $\frac{3}{10}$  part of the work. Then A alone can complete the whole work in

- A 15 days
- B 12 days
- C 14 days
- D 10 days

Answer: D

#### Explanation:

Let the total work to be done = L.C.M. (2,10) = 10 units

Let efficiencies of A, B and C be  $a$ ,  $b$  and  $c$  units/day respectively.

A, B and C together can finish  $\frac{1}{2}$  of a work (i.e. 5 units) in 2 days,  $\Rightarrow (a + b + c) = \frac{5}{2} = 2.5$  units/day -----(i)

Similarly,  $(b + c) = \frac{3}{2} = 1.5$  units/day -----(ii)

Subtracting equation (ii) from (i), we get :

$$\Rightarrow a = 2.5 - 1.5 = 1 \text{ unit/day}$$

$\therefore$  Time taken by A alone to complete the work =  $\frac{10}{1} = 10$  days

$\Rightarrow$  Ans - (D)

### Question 136

If  $2 \frac{\sec^2 70^\circ - \cot^2 20^\circ}{\csc^2 59^\circ - \tan^2 31^\circ} = \frac{2}{m}$ , then  $m$  is equal to

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

Answer: C

#### Explanation:

Expression :  $2 \frac{\sec^2 70^\circ - \cot^2 20^\circ}{\csc^2 59^\circ - \tan^2 31^\circ} = \frac{m}{2}$

Using,  $\cot(90^\circ - \theta) = \tan \theta$  and vice-versa

$$\frac{\sec^2 70^\circ - \cot^2 (90^\circ - 70^\circ)}{2[\operatorname{cosec}^2 59^\circ - \tan^2 (90^\circ - 59^\circ)]} = \frac{m}{2}$$

$$\frac{\sec^2 70^\circ - \tan^2 70^\circ}{2(\operatorname{cosec}^2 59^\circ - \cot^2 59^\circ)} = \frac{m}{2}$$

Using,  $(\sec^2 \theta - \tan^2 \theta = 1)$  and  $(\operatorname{cosec}^2 \theta - \cot^2 \theta = 1)$

$$= 2 \times 1 = \frac{m}{2}$$

$$\Rightarrow m = 1$$

$\Rightarrow$  Ans - (C)

#### Question 137

If  $\frac{a}{b} = \frac{c}{d} = 5$ , then  $\frac{3a+4c}{3b+4d}$  is equal to

A 60

B 15

C 5

D 20

Answer: C

Explanation:

$$\text{Given : } \frac{a}{b} = \frac{c}{d} = 5$$

$$\text{Let } a = c = 5 \text{ and } b = d = 1$$

$$\text{To find : } \frac{3a+4c}{3b+4d}$$

$$= \frac{3(5)+4(5)}{3(1)+4(1)}$$

$$= \frac{15+20}{3+4}$$

$$= \frac{35}{7} = 5$$

$\Rightarrow$  Ans - (C)

## SSC CHSL Study Material

#### Question 138

A water reservoir has two inlets and one outlet. Through the inlet it can be filled in 3 hour and 3 hours 45 mins respectively. It can be emptied completely in 1 hour by the outlet. If the two inlets are opened at 1 pm and 2 pm respectively and the outlet at 3 pm, then it will be emptied at

A 5:30 pm

B 5 pm

C 5:20 pm

D 5:55 pm

Answer: C

Explanation:

$$\text{Let the capacity of the reservoir} = \text{L.C.M.} (3, \frac{15}{4}, 1) = 15 \text{ units}$$

$$\text{1st inlet pipe can fill in 3 hours, its efficiency} = \frac{15}{3} = 5 \text{ units/hour}$$



2nd inlet pipe can fill in  $3\frac{3}{4} = \frac{15}{4}$  hours, its efficiency =  $\frac{15}{4} = 4$  units/hour

Similarly, efficiency of outlet pipe =  $\frac{15}{1} = -15$  units/hour

Reservoir filled by 1st inlet pipe in 2 hours (1 pm - 3 pm) =  $5 \times 2 = 10$  units

Reservoir filled by 2nd inlet pipe in 1 hour (2 pm - 3 pm) =  $4 \times 1 = 4$  units

=> Reservoir filled =  $10 + 4 = 14$  units

Now, reservoir emptied in 1 hour when all three are opened =  $(5 + 4 - 15) = -6$  units/hour

=> Time taken to empty 14 units (from 3 pm) =  $\frac{14}{6} = \frac{7}{3}$  hours

=  $\frac{7}{3} \times 60 = 140$  minutes

∴ Reservoir will be emptied at = 3 pm + 140 minutes = 5:20 pm

=> Ans - (C)

### Question 139

The length of a room is 3 m more than its breadth. If the area of the floor of the room is 70 m, then the perimeter of the floor will be

A 28 m

B 17 m

C 14 m

D 34 m

Answer: D

### Explanation:

Let breadth =  $x$  m

=> Length =  $(x + 3)$  m

=> Area =  $x(x + 3) = 70$

=>  $x^2 + 3x - 70 = 0$

=>  $x^2 + 10x - 7x - 70 = 0$

=>  $x(x + 10) - 7(x + 10) = 0$

=>  $(x - 7)(x + 10) = 0$

=>  $x = 7, -10$

∴ Breadth cannot be negative, =>  $x \neq -10$

∴ Perimeter =  $2(l + b)$

=  $2(x + x + 3) = 4x + 6$

=  $4(7) + 6 = 28 + 6 = 34$  m

=> Ans - (D)

### Question 140

A gun is fired from a fort. A man hears the sound 10 seconds later. If the sound travels at the rate of 330 m/sec, find the distance between the fort and the man.

A 3.3 km

B 0.33 km

C 33 km

D 330 km

**Answer: A**

**Explanation:**

Speed = 330 m/sec and time = 10 seconds

Using, distance = speed  $\times$  time

=> Distance between the fort and the man =  $330 \times 10 = 3300$  m

$\frac{3300}{1000} = 3.3$  km

=> Ans - (A)

## SSC CHSL Free App

**Question 141**

The number  $142^2 - 1$  is divisible by

A 19

B 9

C 13

D 7

**Answer: C**

**Explanation:**

Number =  $(142)^2 - (1)^2$

Using,  $a^2 - b^2 = (a - b)(a + b)$

=  $(142 - 1)(142 + 1)$

=  $141 \times 143$

=  $(3 \times 47) \times (11 \times 13)$

Thus, it is divisible by 13.

=> Ans - (C)

**Question 142**

$\sqrt{4032} \times \sqrt{7} =$

A  $24\sqrt{7}$

B 168

C  $36\sqrt{2}$

D 252

**Answer: B**

**Explanation:**

Expression :  $\sqrt{4032} \times \sqrt{7} =$

=  $\sqrt{9 \times 64 \times 7} \times \sqrt{7}$

$$= 3 \times 8 \times 7 = 168$$

=> Ans - (B)

#### Question 143

Two vessels contain mixture of petrol and kerosene in the ratio 4 : 3 and 3 : 5 respectively. The ratio of the volumes of the quantities from the two vessels to be mixed together so that the new mixture may contain same volume of petrol and kerosene is

A 9 : 6

B 8 : 2

C 7 : 8

D 7 : 4

Answer: D

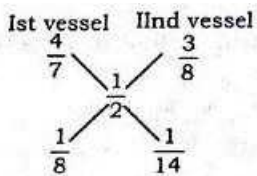
#### Explanation:

Ratio of petrol and whole mixture in 1st vessel =  $\frac{4}{7}$

Ratio of petrol and whole mixture in 2nd vessel =  $\frac{3}{8}$

Also, ratio of petrol and whole mixture in the final mixture =  $\frac{1}{2}$

By alligation method,



=> Petrol : Kerosene =  $\frac{1}{8} : \frac{1}{14} = 14 : 8$

= 7 : 4

=> Ans - (D)

### Daily Free SSC Practice Set

#### Question 144

If  $a : b = 4 : 5$ ,  $b : c = 5 : 6$  and  $c : d = 6 : 7$ , then  $a : c$  is

A 3 : 4

B 2 : 3

C 4 : 5

D 5 : 6

Answer: B

#### Explanation:

Given  $a : b = 4 : 5$  -----(i)

and  $b : c = 5 : 6$  -----(ii)

$\therefore$  Value of  $b$  is same in both equation,  $\Rightarrow \frac{a}{c} = \frac{4}{6}$

= 2 : 3

=> Ans - (B)

Question 145

If  $2 \cos \theta - \sin \theta = \frac{1}{\sqrt{2}}$ , ( $0^\circ \leq \theta \leq 90^\circ$ ) the value of  $2 \sin \theta + \cos \theta$  is

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

Answer: C

Explanation:

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

Squaring both sides, we get :

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

$$\Rightarrow 4 \cos^2 \theta + \sin^2 \theta - 4 \sin \theta \cdot \cos \theta = \frac{1}{2}$$

$$\Rightarrow 4 \cos^2 \theta + (1 - \cos^2 \theta) - 4 \sin \theta \cdot \cos \theta = \frac{1}{2}$$

$$\Rightarrow 3 \cos^2 \theta - 4 \sin \theta \cdot \cos \theta = \frac{-1}{2} \quad \text{---(i)}$$

To find :  $2 \sin \theta + \cos \theta = x$

$$\Rightarrow x^2 = 4 \sin^2 \theta + \cos^2 \theta + 4 \sin \theta \cdot \cos \theta$$

$$\Rightarrow x^2 = 4(1 - \cos^2 \theta) + \cos^2 \theta + 4 \sin \theta \cdot \cos \theta$$

$$\Rightarrow x^2 = 4 - 3 \cos^2 \theta + 4 \sin \theta \cdot \cos \theta$$

$$\Rightarrow x^2 = 4 - (3 \cos^2 \theta - 4 \sin \theta \cdot \cos \theta)$$

$$\Rightarrow x^2 = 4 - \left(\frac{-1}{2}\right) \quad \text{[Using equation (i)]}$$

$$\Rightarrow x^2 = \frac{8+1}{2} = \frac{9}{2}$$

$$\Rightarrow x = \sqrt{\frac{9}{2}} = \frac{3}{\sqrt{2}}$$

$\Rightarrow$  Ans - (C)

Question 146

By selling some goods at ₹31, a salesman loses 7% on his output. Find the percentage profit or loss. When he sells the same at ₹35.

- A Profit 5%
- B Loss 5%
- C Loss 7%
- D Profit 7%

Answer: A

Explanation:

Selling price = Rs. 31 and loss % = 7%

$$\Rightarrow \text{Cost price} = \frac{31}{(100-7)} \times 100$$

$$= \frac{3100}{93} = \text{Rs. } \frac{100}{3}$$

If selling price = Rs. 35

$$\Rightarrow \text{Profit \%} = \frac{35 - \frac{100}{3}}{\frac{100}{3}} \times 100$$

$$= \frac{(105 - 100)}{100} \times 100 = 5\%$$

\(\Rightarrow\) Ans - (A)

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### Question 147

If  $11\sqrt{n} = \sqrt{112} + \sqrt{343}$ , then the value of n is

A 13

B 7

C 11

D 3

Answer: B

### Explanation:

$$\text{Expression : } 11\sqrt{n} = \sqrt{112} + \sqrt{343}$$

$$\Rightarrow 11\sqrt{n} = \sqrt{16 \times 7} + \sqrt{7 \times 7 \times 7}$$

$$\Rightarrow 11\sqrt{n} = 4\sqrt{7} + 7\sqrt{7}$$

$$\Rightarrow 11\sqrt{n} = 11\sqrt{7}$$

$$\Rightarrow \sqrt{n} = \sqrt{7}$$

$$\Rightarrow n = 7$$

\(\Rightarrow\) Ans - (B)

### Question 148

If  $\frac{1}{a+b} = \frac{1}{a} + \frac{1}{b}$ , then the value of  $a^3 - b^3$  is

A 2

B 1

C 0

D 3

Answer: C

### Explanation:

$$\text{Given : } \frac{1}{a+b} = \frac{1}{a} + \frac{1}{b}$$

$$\Rightarrow \frac{1}{a+b} = \frac{a+b}{ab}$$

$$\Rightarrow (a+b)^2 = ab$$

$$\Rightarrow (a^2 + b^2 + 2ab) - ab = 0$$

$$\Rightarrow a^2 + b^2 + ab = 0 \text{ -----(i)}$$

To find :  $a^3 - b^3$

$$= (a - b)(a^2 + b^2 + ab)$$

Using equation (i), we get :

$$\Rightarrow (a - b) \times 0 = 0$$

$\Rightarrow$  Ans - (C)

#### Question 149

Each wheel of a car is making 5 revolutions per second. If the diameter of a wheel is 84 cm, then the speed of the car in cm/sec. would be

- A 264 cm/sec
- B 1320 cm/sec
- C 1000 cm/sec
- D 420 cm/sec

**Answer:** B

#### Explanation:

$$\text{Radius of wheel} = \frac{84}{2} = 42 \text{ cm}$$

$$\text{Distance covered in 1 revolution} = \text{Circumference of wheel} = 2\pi r$$

$$= 2 \times \frac{22}{7} \times 42$$

$$= 44 \times 6 = 264 \text{ cm}$$

$$\Rightarrow \text{Distance covered in 1 second} = 264 \times 5 = 1320 \text{ cm}$$

$$\therefore \text{Speed of car} = 1320 \text{ cm/sec}$$

$\Rightarrow$  Ans - (B)

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#### Question 150

The average monthly salary of 15 workers in a factory is ₹285. If the salary of the manager is included, the average becomes ₹355. What is the manager's salary ?

- A ₹1,450
- B ₹1,430
- C ₹1,405
- D ₹1,400

**Answer:** C

#### Explanation:

$$\text{Average monthly salary of 15 workers in a factory} = \text{Rs. } 285$$

$$\Rightarrow \text{Total monthly salary of 15 workers} = 285 \times 15 = \text{Rs. } 4275$$

$$\text{Let manager's salary} = \text{Rs. } x$$

$$\text{According to ques, } \Rightarrow \frac{4275+x}{16} = 355$$

$$\Rightarrow 4275 + x = 355 \times 16 = 5680$$

$$\Rightarrow x = 5680 - 4275 = \text{Rs. } 1405$$

=> Ans - (C)

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### General Awareness

#### Instructions

For the following questions answer them individually

#### Question 151

How many languages are there in the Eighth Schedule of the Constitution of India ?

- A 19
- B 22
- C 18
- D 16

Answer: B

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#### Question 152

Who was the first speaker of free India ?

- A Smt. Sarojini Naidu
- B Frank Anthony
- C K.M.Munshi
- D G.V. Mavalankar

Answer: D

#### Question 153

The chemical name of Baking soda is

- A Sodium hydroxide
- B Sodium acetate
- C Sodium bicarbonate
- D Sodium carbonate

Answer: C

#### Question 154

Which one of the following gases has colour ?

- A Oxygen
- B Nitrogen

- C Chlorine
- D Hydrogen

Answer: C

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#### Question 155

Which of the following is used as raw material for the manufacture of rayon ?

- A Cellulose
- B Petroleum
- C Coal
- D Plastic

Answer: A

#### Question 156

Which of the following command deletes the data in the entire table and makes the delete permanent in the database ?

- A Truncate
- B Rollback
- C Commit
- D Delete

Answer: A

#### Question 157

The point on the Earth surface directly above the origin of an earthquake is known as

- A Medi Centre
- B Prime Centre
- C Epicentre
- D Hypo Centre

Answer: C

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#### Question 158

Heterothallism was discovered by

- A E.J. Butler
- B A.F. Blakeslee



- C J.H. Graigie
- D B.B. Mundkar

**Answer: B**

**Question 159**

**Which famous scientist was the first to look at the night sky through a telescope ?**

- A Galileo
- B Copernicus
- C Michael Faraday
- D Newton

**Answer: A**

**Question 160**

**State with highest percentage of forests is**

- A Uttar Pradesh
- B Mizoram
- C Arunachal Pradesh
- D Assam

**Answer: B**

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**Question 161**

**May 8 is observed as**

- A World Red Cross Day
- B Commonwealth Day
- C World Telecommunication Day
- D World Standard Day

**Answer: A**

**Question 162**

**The conductivity of a super-conductor is**

- A Zero
- B Infinite
- C Small
- D Large

Answer: B

Question 163

Thillana is a format of

- A Kathak
- B Kuchipudi
- C Odissi
- D Bharatanatyam

Answer: D

## SSC CHSL Previous Papers (DOWNLOAD PDF)

Question 164

The number of days for a year in Mercury is

- A 56
- B 88
- C 300
- D 36

Answer: B

Question 165

The vice President of India may be impeached by

- A Vidhana Parishad
- B Vidhana Sabha
- C Rajya Sabha
- D Lok Sabha

Answer: C

Question 166

The part of a transistor which is heavily doped to produce a large number of majority carriers is

- A Emitter
- B Gate
- C Collector
- D Base

Answer: A

## SSC CGL Previous Papers (DOWNLOAD PDF)

Question 167

Sodium chloride or table salt occurs in nature as the mineral

- A Sphalerite
- B Halite
- C Tale
- D Sylvite

Answer: B

Question 168

Lichens developing on rocky substrates are called

- A Lignicolous
- B Terricolous
- C Corticolous
- D Saxicolous

Answer: D

Question 169

CENVAT is related to

- A Service Tax
- B Custom Duty
- C Excise Duty
- D Sales Tax

Answer: C

## SSC CGL Free Mock Test (Latest Pattern)

Question 170

Which of the following is the right expansion of TRIMS ?

- A Trade Related Industrial Measures
- B Trade related Innovation Measures
- C Trade Related Investment Measures
- D Trade Related Information Measures

Answer: C

**Question 171**

When an explosive shell, travelling in a parabolic path under the effect of gravity explodes, the centre of mass of the fragments will move.

- A First horizontally and then along a parabolic path
- B Vertically downwards
- C Along the original parabolic
- D First vertically upwards and then vertically downwards

**Answer: C**

**Question 172**

Ornithology is the study of

- A Birds
- B Bees
- C Crustaceans
- D Insects

**Answer: A**

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

**Question 173**

Dengue fever is transmitted by the vector

- A Aedes aegypti
- B Culex fatigans
- C Anopheles culicifacies
- D Mansonia uniformis

**Answer: A**

**Question 174**

Breaking logical memory into blocks of the same size called as

- A Frames
- B Packets
- C Pages
- D Segments

**Answer: A**

**Question 175**

The foundation of modern cartography was laid by

- A Aristotle
- B Plato
- C Homer
- D Socrates

Answer: C

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Question 176

The state which has the highest yield per hectare of potatoes in India is

- A West Bengal
- B Punjab
- C Tamil Nadu
- D Rajasthan

Answer: B

Question 177

Which treaty concluded the First World War ?

- A Treaty of Tashkent
- B Treaty of Versailles
- C Treaty of Tilsit
- D Treaty of Berlin

Answer: B

Question 178

The Lakshadweep Islands are situated in the

- A None of these
- B Bay of Bengal
- C Arabian Sea
- D Indian Ocean

Answer: C

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Question 179

Taj Mahal is said to be suffering from |Marble Cancer" What is Marble Cancer ?

- A Acidic rain which corrodes marble.
- B Smokes filling the Taj Mahal from adjoining industries.
- C Yellowing of marble on a/c. Of soot particles.
- D Large no. of fungus in Taj Mahal marbles.

**Answer: A**

**Question 180**

**Which of the following classical economists gave a systematic theory of Economic growth ?**

- A T.R. Malthus
- B David Ricardo
- C Adam Smith
- D J.S. Mill

**Answer: B**

**Question 181**

**Nagarjun Sagar project is on the river**

- A Sutlej
- B Krishna
- C Narmada
- D Kaveri

**Answer: B**

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**Question 182**

**The recapitulation theory was proposed by**

- A Weissmann
- B Ernst Haeckel
- C Morgan
- D Muller

**Answer: B**

**Question 183**

**Which State Legislative Assembly has the maximum strength (number of members)?**

- A Uttar Pradesh
- B Maharashtra

- C West Bengal
- D Andhra Pradesh

**Answer: A**

**Question 184**

**Mohiniattam dance form developed originally in which of the following states ?**

- A Karnataka
- B Kerala
- C Odisha
- D Tamil Nadu

**Answer: B**

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**Question 185**

**Reactions of automobile exhausts in the presence of sunlight leads to the formation of**

- A Photochemical fog
- B Photodynamic reactions
- C Photochemical smog
- D Photosynthesis

**Answer: C**

**Question 186**

**Vardhamana Mahaveera attained Parinirvana at**

- A Pava
- B Saranath
- C Vaishali
- D Shravanabelagola

**Answer: A**

**Question 187**

**Indian banks have the maximum foreign branches in**

- A Bangladesh
- B Sri Lanka
- C U.K.
- D U.S.A

Answer: C

## 1500+ Very Important Free SSC Solved Questions

Question 188

What is the number of players on each side in Baseball ?

- A 9
- B 15
- C 11
- D 7

Answer: A

Question 189

Name the person who started 'Young Italy'

- A Garibaldi
- B Victor Emanuel
- C Count Cavour
- D Giuseppe Mazzini

Answer: D

Question 190

The first Indian woman to reach Olympic final in individual track events was

- A P.T. Usha
- B M.D. Valsamma
- C Shiny Abraham
- D Arti Saha

Answer: A

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Question 191

Cement factory workers are prone to

- A Leukemia
- B Cytosilicosis
- C Bone marrow disease
- D Asbestosis

Answer: B



**Question 192**

**When the money supply rises, then LM curve**

- A Parallel to the horizontal axis
- B Shifts to the left
- C Shifts to the right
- D Does not change at all

**Answer: C**

**Question 193**

**A south Rajasthan tribe earning its living by song and dance is**

- A Mayas
- B Khasis
- C Moors
- D Garasia

**Answer: D**

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**Question 194**

**The power of Supreme Court of India to decide the dispute between the Centre and States falls under its**

- A Original Jurisdictions
- B Constitutional Jurisdiction
- C Advisory Jurisdiction
- D Appellate Jurisdiction

**Answer: A**

**Question 195**

**In the Sun, heat and light are produced by**

- A Nuclear reactions
- B Lonic reactions
- C Biological reactions
- D Chemical reactions

**Answer: A**

**Question 196**

**In which language did babur write his memories called 'Tuzuk-i-Baburi' ?**

- A Mongol
- B Persian
- C Turkish
- D Arabic

**Answer: C**

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### Question 197

The twin planet of the earth which resembles in size, density and mass is

- A Venus
- B Mercury
- C Mars
- D Jupiter

**Answer: A**

### Question 198

Who is called the 'Grand Old Man' of India ?

- A Jawaharlal Nehru
- B Mahatma Gandhi
- C Gopal Krishna Gokhale
- D Dadabhai Naoroji

**Answer: D**

### Question 199

Dwarf plants can be made taller by applying

- A Cytokinins
- B Dormin
- C Auxins
- D Gibberellins

**Answer: C**

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### Question 200

A.P.J. Abdul Kalam, the former President of India. Is the author of the book

- A The Wings of Fire and ignited Minds
- B None of these
- C The algebra of Infinite Justice
- D Four Fires and Death of Fire

Answer: A

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