



## SSC CPO 9th Dec 2019 Shift-2

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# General Intelligence and Reasoning

## Instructions

For the following questions answer them individually

### Question 1

Select the option that is related to the third term in the same way as the second term is related to the first term.

SPORTS : 214 :: SOCIAL : ?

A 118

B 116

C 60

D 120

Answer: A

### Explanation:

Given that SPORTS: 214:: SOCIAL:?

the pattern is followed *total of alphabet position*  $\times 2$

then SPORTS =  $19 + 16 + 15 + 18 + 20 + 19 = 107 \times 2 = 214$

therefore SOCIAL =  $19 + 15 + 3 + 9 + 1 + 12 = 59 \times 2 = 118$

then ? = 118 Ans

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### Question 2

In a certain code language, 'ULTERIOR' is written as '33259969'. How will 'NAVIGATION' be written as in that language?

A 1412297215

B 5149722965

C 1419712915

D 5149712965

Answer: D

### Explanation:

Given that 'ULTERIOR' is written as '33259969'

We know that alphabet position A=1, B=2, C=3, D=4 ..... Z=26

'ULTERIOR' is written as alphabet position

21 12 20 5 18 9 15 18

the pattern is going on add alphabet position in single-digit

(2+1) (1+2) (2+0) (5) (1+8) (9) (1+5) (1+8)

3 3 2 9 9 8 6 9

Similarly,

'NAVIGATION' is written as alphabet position

14 1 22 9 7 1 20 9 15 14

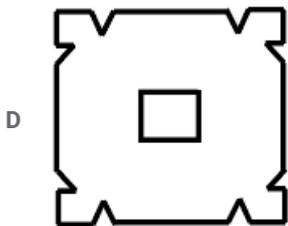
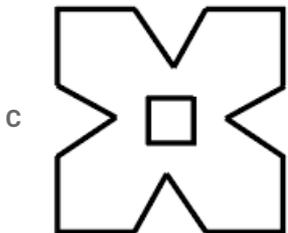
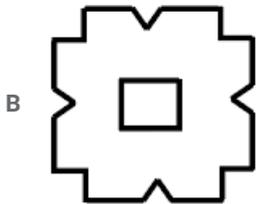
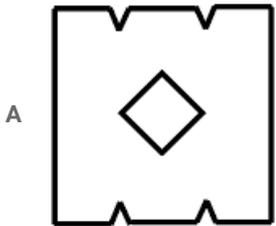
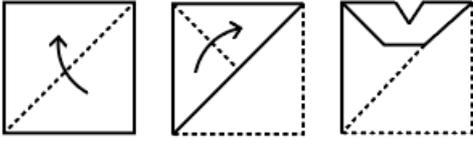
the pattern is going on add alphabet position in single-digit

(1+4) (1) (2+2) (9) (7) (1) (2+0) (9) (1+5) (1+4)

5 1 4 9 7 1 2 9 6 5 Ans

**Question 3**

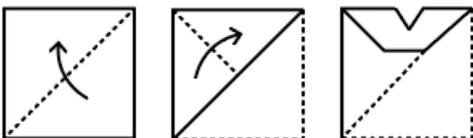
The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?



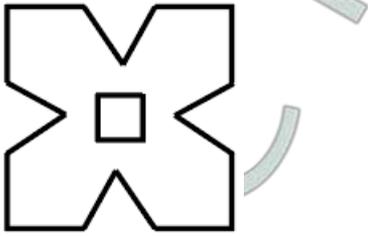
Answer: C

**Explanation:**

Given that The sequence of folding a piece of paper and the manner paper cut given below



from the above figure if we can unfold the figure we can obtain the given below



therefore Option (C) Ans

#### Question 4

Four pairs of numbers have been given, out of which three are alike in some manner, while one is different. Choose out the odd one.

- A 19,39
- B 25,53
- C 68,137
- D 37,75

**Answer: B**

#### Explanation:

From the given option (A),(C), (D) is to follow the same pattern First two digit Multiply by 2 +1 find last two-digit number

(A) 19,39

$$19, 19 \times 2 + 1$$

$$\Rightarrow 19, 39$$

(C) 68, 137

$$68, 68 \times 2 + 1$$

$$\Rightarrow 68, 137$$

(D) 37,75

$$37, 37 \times 2 + 1$$

$$\Rightarrow 37, 75$$

But B is not follow the above Pattern

(B)25, 53

$$25, 25 \times 2 + 1$$

$$\Rightarrow 25, 52 \text{ it is different from the another option}$$

therefore Option (B) 25,53 Ans

## SSC CHSL Prevoius Papers (DOWNLOAD PDF)

#### Question 5

Select the number that can replace the question mark (?) in the following series

1, 1, 2, 3, 7, 22, ?

- A 152
- B 155
- C 157
- D 156

Answer: B

**Explanation:**

Given series 1, 1, 2, 3, 7, 22, ?

the series is going on multiply last two number and adding 1 its provide next number

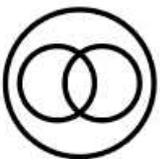
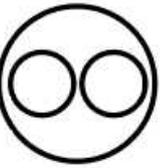
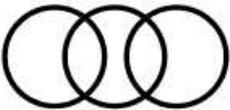
, therefore,  $22 \times 7 + 1$

$\Rightarrow 154 + 1$

$\Rightarrow 155$ Ans

**Question 6**

Select the venn diagram that best represents the relation ship between the following classes Cow, Wild animals, Fox

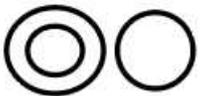
- A 
- B 
- C 
- D 

Answer: B

**Explanation:**

Given that Cow, Wild animals, Fox

we know that Fox is a wild animal that means Fox lives In Wild and Cow is lives in the house then we represent in the Venn diagram is given below



therefore option (B )Ans

**Question 7**

If A indicates >; B indicates <; C indicates =; D indicates +; E indicates -; F indicates x; G indicates /; then which of the following options is true?

- A (27G3)C(75G5)C(6F2)
- B (35E15)C(5F5)A(20G4)
- C (5D6)A(6D12)A(13D6)
- D (5D6)A(4D3)A(3D3)

Answer: D

**Explanation:**

Given Indication A indicates >; B indicates <; C indicates =; D indicates +; E indicates -; F indicates ×; G indicates /;

we check all option A, B, C is not satisfied same as check option (D)

check option (D) (5D6) A(4D3)A(3D3)

we put the given indication

$$(5 + 6) > (4 + 3) > (3 + 3)$$

$$\Rightarrow 11 > 7 > 6$$

then the option(D) is satisfied the given indication

therefore option (D) Ans

## SSC CHSL Free Mock Test (Latest Pattern)

### Question 8

Two statements are given followed by four conclusions I, II, III and IV. You have to consider these statements to be true, even if they seem at variance from commonly known facts. Decide which of the given conclusions logically follow/s from the given statement.

**Statements:**

1. All papers are stationery.
2. Some papers are books.

**Conclusions:**

- I. Some stationery are papers.
- II. No stationery is paper.
- III. No book is stationery.
- IV. Some books are papers

- A Only conclusions I, II and IV follow
- B Only conclusions I and II follow.
- C Only conclusions II and III follow.
- D Only conclusions I and IV follow

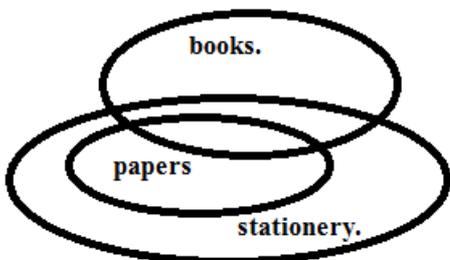
**Answer: D**

**Explanation:**

Given that **Statements:**

1. All papers are stationery.
2. Some papers are books.

From the above Statements, we can draw the figure is given below



From the above figure we check **Conclusions:**

- I. Some stationery are papers. True
- II. No stationery is paper. False
- III. No book is stationery. False
- IV. Some books are papers True

therefore Only Conclusions I and IV follow

Hence Option (D) Ans

**Question 9**

Four letter-cluster have been given out of which three are alike in some manner, while one is different. Choose the odd one.

- A dEefFF
- B mnNoOO
- C uvVwWW
- D pqQrRR

**Answer:** A

**Explanation:**

From the given Option (B), (C), (D) it follows the similarity

first Two alphabets are written in the small letter then Capital letter again 1 small letter then last two capital letters

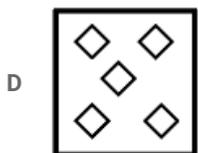
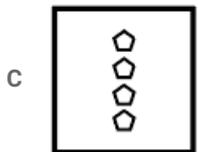
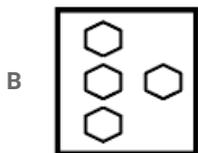
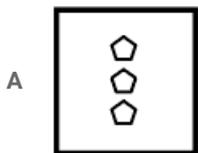
But Option (A) does not follow the above pattern

then A is Different from the given all options.

therefore Option (A)dEefFF Ans

**Question 10**

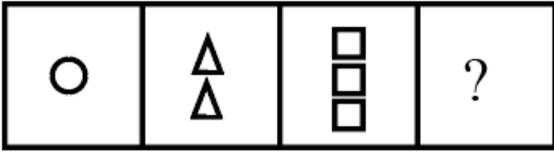
Select the figure that will come next in the following figure series.



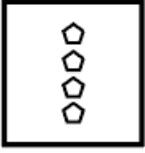
**Answer:** C

**Explanation:**

Given figure



From the above pattern is going on Sybole is increases in each Box upper the symbols then ? =

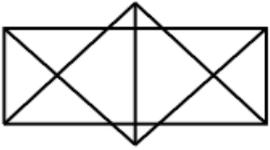


therefore Option (C) Ans

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### Question 11

How many triangles are there in the following figure?

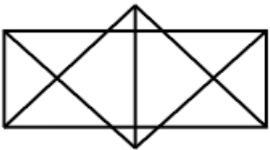


- A 16
- B 24
- C 26
- D 25

Answer: B

### Explanation:

Given that



after counting triangle then

total triangle = 24 Ans

### Question 12

In a certain code language, 'PAYCHECK' is written as 'YHQZFXMV' and 'TEACH' is written as 'NXHZF'. How will 'YACHT' be written as in that language?

- A QHZFN
- B HQZFV
- C QXZFN
- D YHZF

Answer: A

**Explanation:**

Given that 'PAYCHECK' is written as 'YHQZFXMV'

' and 'TEACH' is written as 'NXHZF'

'YACHT' =?

from the above Y is written as Q, A is written as H, C is written as Z, H is written as F, and T is written as N

then YACHT = Q H Z F H

? = QHZFH Ans

**Question 13**

Study the given pattern carefully and select the number that can replace the question mark (?) in it.

3	18	7
28	71	35
48	65	?
60	108	98

A 23

B 72

C 14

D 21

**Answer: D**

**Explanation:**

The pattern follows column Rule

$$(48 - 28) \times 3 = 20 \times 3 = 60$$

$$(71 - 65) \times 18 = 6 \times 18 = 108$$

$$\text{Next } (35 - ?) \times 7 = 98$$

$$\Rightarrow 35 \times 7 - 7? = 98$$

$$\Rightarrow 245 - 7? = 98$$

$$\Rightarrow -7? = 98 - 245$$

$$\Rightarrow 7? = 147$$

$$\Rightarrow ? = 21 \text{ Ans}$$

## SSC CPO Free Mock Test (Latest Pattern)

**Question 14**

Select the option in which the numbers share the same relationship as that shared by the given pair of numbers.

63 : 72

A 112:144

B 188:216

C 161:284

D 152:133

**Answer: C**

**Explanation:**

Given that 63 : 72

the above is pattern follow  $7 \times 9 : 8 \times 9$

$\Rightarrow 7 : 8$

in the given Option that pattern follow Option (C) 161 : 284

follow the same pattern  $7 \times 23 : 8 \times 23$

$\Rightarrow 7 : 8$

therefore Option (c) 161 : 284 Ans

**Question 15**

Which of the given options would be a logical sequence of the following measurement units?

1. Furlong
2. Mile
3. Inch
4. Yard
5. Foot

A 2, 1, 4, 3, 5

B 1, 4, 2, 5, 3

C 2, 1, 4, 5, 3

D 1, 5, 3, 2, 4

**Answer:** C

**Explanation:**

Given Words represent in a logical sequence is given below 3. Inch 5. Foot 4. Yard 1. Furlong 2. Mile

then from the option, we arrange in reverse 2, 1, 4, 5, 3

therefore option (C) 2, 1, 4, 5, 3 Ans

**Question 16**

Four words have been given out of which three are alike in some manner, while one is different. Choose the odd one.

A Steel

B Tin

C Aluminium

D Zinc

**Answer:** A

**Explanation:**

From the given option Tin, Aluminium, Zinc is of Single metal and steel is a mixture of metal.

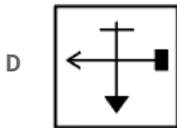
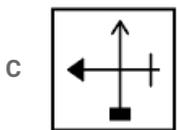
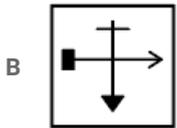
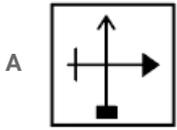
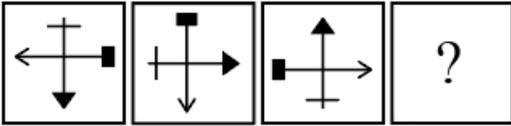
steel is a mixture of Iron and Carbon.

therefore Steel is different from to another option

then (A) Steel Ans

Question 17

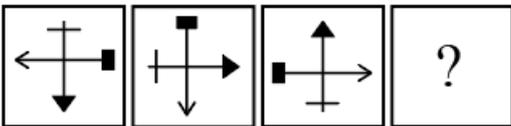
Select the figure that will come next in the following figure series.



Answer: C

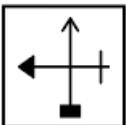
Explanation:

Given that figure



from the above figure is rotated antilock wise change position one place each rotation then next

? =



therefore Option (C) Ans

Question 18

Select the number that can replace the question mark (?) in the following series.

14, 17, 23, 32, 44, 59, ?

A 78

B 77

C 74

D 67

Answer: B

Explanation:

Given that series 14, 17, 23, 32, 44, 59,?

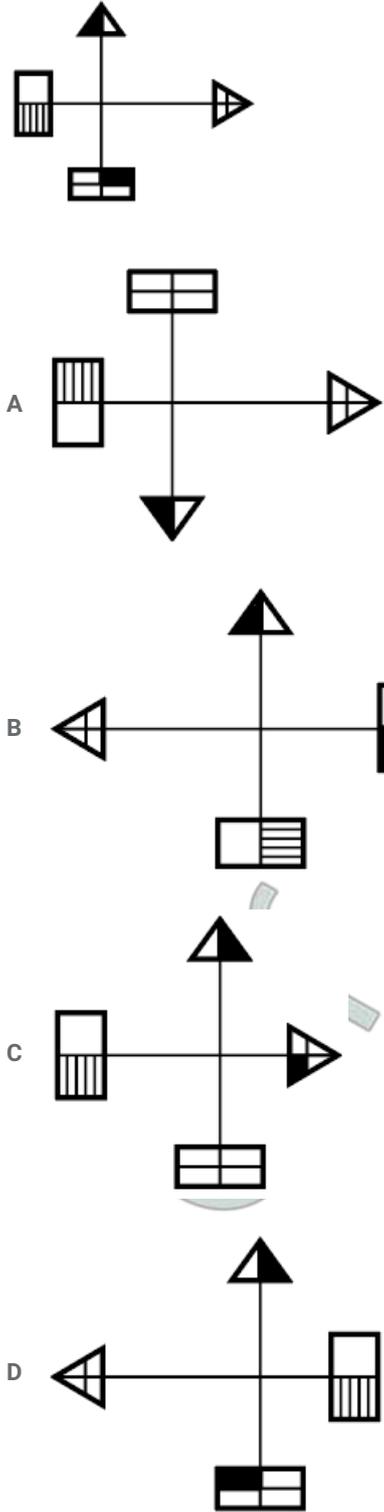
Difference of series  $17-14 = 3$ ,  $23-17 = 6$ ,  $32-23 = 9$ ,  $44 - 32 = 12$ ,  $59 - 44 = 15$

difference of series going on 3, 6, 9, 12, 15, 18, ..... and so on

therefore  $59 + 18 = 77$  Ans

**Question 19**

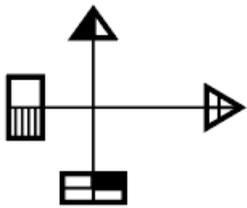
Select the option that most closely resembles the mirror image of the given figure, when the mirror is placed to right side of the figure.



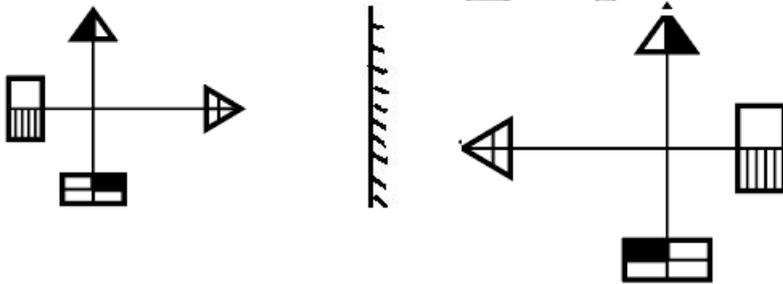
Answer: D

Explanation:

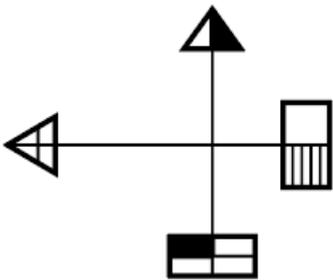
Given figure



From the above figure, the mirror image is given below placed to the right side of the figure



then mirror image is

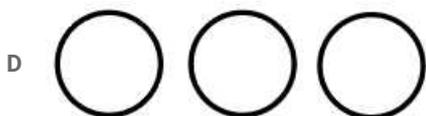
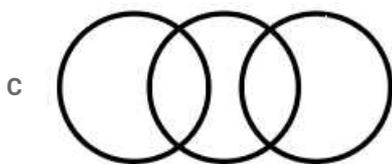
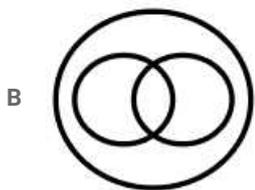
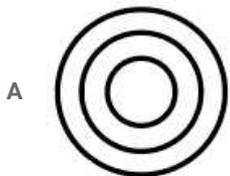


therefore Option (D) Ans

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

Question 20

Select the Venn diagram that best represents the relationship between the following classes  
Days, Hours, Weeks



Answer: A

**Explanation:**

Given that Days, Hours, Weeks

we know that Hours makes a day and a day makes weeks then we represent the Venn diagram given below



therefore option (A) Ans

**Question 21**

Two statements are given followed by two conclusions I and II. You have to consider these statements to be true, even if they seem at variance from commonly known facts. Decide which of the given conclusions logically follow/s from the given statement.

**Statements:**

1. All petunias are flowers.
2. No flower is black.

**Conclusions:**

- I. Some petunias are black.
- II. No petunia is black.

- A Both the conclusion I and II follow
- B Only conclusion II follows.
- C Only conclusion I follows.
- D Neither conclusion I nor II follows

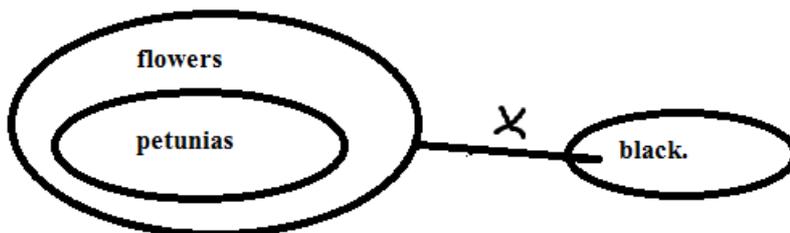
**Answer: B**

**Explanation:**

Given that **Statements:**

1. All petunias are flowers.
2. No flower is black.

from the above Statements, We can draw the figure is given below



the above figure we check **Conclusions:**

- |                            |       |
|----------------------------|-------|
| I. Some petunias are black | False |
| II. No petunia is black.   | True  |

therefore Only Conclusions II follow

Hence Option (B) Ans

**Question 22**

Among the following words, which one will come fifth if they are arranged as per their order in an English dictionary?

1. Wink
2. Whip
3. Weary
4. Wing
5. Weigh
6. Weather

- A Wink
- B Weather
- C Whip
- D Wing

**Answer: D**

**Explanation:**

Given Words, we are arranged as per their order in an English dictionary given below represent in the English dictionary 3. Weary 6. Weather 5. Weigh 2. Whip 4. Wing 1. Wink then the fifth position arrange words in an English Dictionary 4. Wing , therefore, option (D) Wing Ans

## SSC CGL Free Mock Test (Latest Pattern)

**Question 23**

In a certain code language, 'KITE' is written as '9' and 'MAGIC' is written as '11'. How will 'FELICITATION' be written as in that language?

- A 25
- B 22
- C 24
- D 12

**Answer: A**

**Explanation:**

Given Code 'KITE' is written as '9' and 'MAGIC' is written as '11'

both Codes follow the Pattern =  $2 \times \text{number of alphabet used in the words} + 1$

then KITE =  $2 \times 4 + 1 = 9$

and MAGIC =  $2 \times 5 + 1 = 11$

therefore FELICITATION =  $2 \times 12 + 1 = 25$  Ans

**Question 24**

In a certain code language, 'dee duc tic' is written as 'roses are red', 'bil doe' is written as 'yellow carnations' and 'tic dur doe' is written as 'carnations are pink'. What is the code for 'pink' in that language?

- A doe
- B dee
- C tic
- D dur

**Answer: D**

**Explanation:**

Given that language Code 'dee duc tic' is written as 'roses are red',

'bil doe' is written as 'yellow carnations' and

'tic dur doe' is written as 'carnations are pink.

from the above carnations is code "doe" and tic is used code for "are" extra code only "dur"

then Pink Code is dur (from the differentiating to the code)

therefore option (D) Ans

**Question 25**

Select the option that most closely resembles the mirror image of the given figure, when mirror is placed to right side of the figure.

S	U	N
3	2	7
Z	E	B

A

N	U	2
7	2	3
B	E	N

B

N	E	B
3	2	7
2	U	N

C

2	U	N
3	2	7
N	E	B

D

N	U	S
7	2	3
B	E	N

Answer: A

**Explanation:**

Given figure

S	U	N
3	2	7
Z	E	B

the above figure mirror image is given below placed to the right side of the figure

S	U	N
3	2	7
Z	E	B



N	U	2
7	2	3
B	E	N

then mirror image is

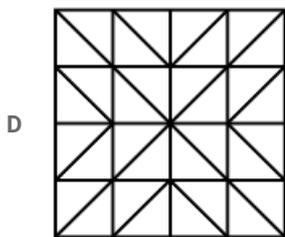
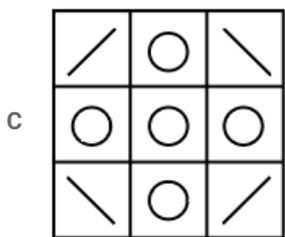
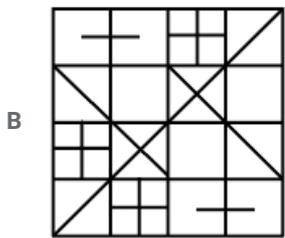
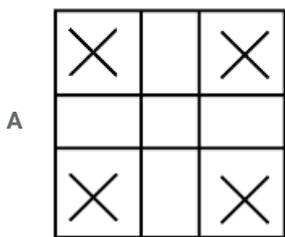
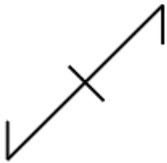


therefore Option (A) Ans

## SSC CGL Previous Papers (DOWNLOAD PDF)

Question 26

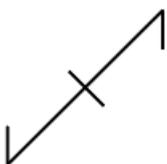
Select the option in which the given figure is embedded. (Rotation is NOT allowed)



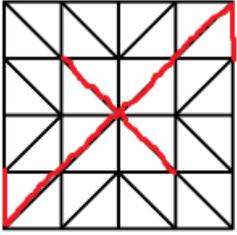
Answer: D

Explanation:

Given Figure



the above figure is embedded in the given Option is given below



then Option (D) Ans

### Question 27

If ' $\times$ ' stands for '+', '+' stands for ' $\div$ ', '-' stands for ' $\times$ ' and ' $\div$ ' stands for '-', then find the value of the given equation.

$$76 \div 5 - 6 + 3 \times 4 = ?$$

- A 62
- B 46
- C 65
- D 70

Answer: D

### Explanation:

Given expression  $76 \div 5 - 6 + 3 \times 4 = ?$

$76 - 5 \times 6 \div 3 + 4 = ?$  (we change sign according to given in question )

$$\Rightarrow 76 - 5 \times 2 + 4 = ?$$

$$\Rightarrow 76 - 10 + 4 = ?$$

$$\Rightarrow 80 - 10 = ?$$

$$\Rightarrow 70 = ?$$

$$\Rightarrow ? = 70 \text{Ans}$$

### Question 28

Select the option that is related to the third number in the same way as the second number is related to the first number.

$$289 : 324 :: 441 : ?$$

- A 529
- B 484
- C 401
- D 483

Answer: B

### Explanation:

Given that  $289 : 324 :: 441 : ?$

The pattern follows

$$(17)^2 : (18)^2 :: (21)^2 : ?$$

therefore the next  $? = (22)^2$

$$\Rightarrow 484 \text{ Ans}$$

## Daily Free SSC Practice Set

### Question 29

Select the word from the given options that is similar to the given words and hence belong to the same group.  
Eagle, Ostrich, Kiwi

- A Unicorn
- B Bat
- C Sparrow
- D Shark

**Answer:** C

### Explanation:

Given that Eagle, Ostrich, Kiwi

the above Similar to each other other

hence from the given Similar to Eagle, Ostrich, Kiwi, Sparrow

therefore Option (C) Sparrow Ans

### Question 30

Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number

10 : 142 :: 17 : 359 :: 21 : ?

- A 525
- B 576
- C 529
- D 527

**Answer:** D

### Explanation:

Given that 10 : 142 :: 17 : 359 :: 21 : ?

The Pattern follows  $x : (x + 2)^2 - 2$

$$10 : (10 + 2)^2 - 2$$

$$\Rightarrow (12)^2 - 2 = 144 - 2 = 142$$

therefore 10: 142

$$17 : (17 + 2)^2 - 2$$

$$\Rightarrow (19)^2 - 2 = 361 - 2 = 359$$

therefore 17: 359

$$\text{Next } ? = (21 + 2)^2 - 2$$

$$\Rightarrow ? = (23)^2 - 2 = 529 - 2 = 527$$

therefore 21 : 527

? = 527 Ans

**Question 31**

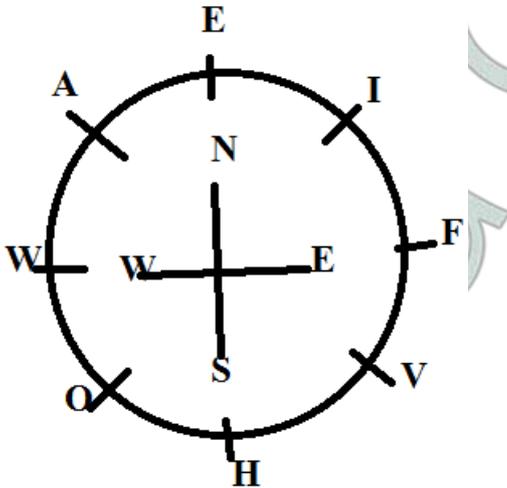
A, E, I, O, U, H, F and W are sitting around a circular table in clockwise manner in the same sequence at equal distances from each other. Then O and F interchange their positions. If H is facing the north, then which direction will O be facing?

- A East
- B South-west
- C West
- D North-east

**Answer:** D

**Explanation:**

Given that A, E, I, O, U, H, F, and W are sitting around a circular table in a clockwise manner given below diagram



from the above diagram direction will O be facing = North-East direction  
therefore Option (D) North East Ans

## General Science Notes (Download PDF)

**Question 32**

Four words have been given out of which three are alike in some manner, while one is different. Choose the odd one.

- A Steam
- B Grill
- C Fire
- D Roast

**Answer:** C

**Explanation:**

From the Given Option Steam, Grill and Roast are Similar But Fire are different of three Option

therefore Option (C) Fire Ans

**Question 33**

Select the option that is related to the third term in the same way as the second term is related to the first term.

SUNDAY : RWKHVE :: ANNUAL : ?

- A AOKXWR
- B ZPLXVN
- C ZPKYVR
- D BPKYVQ

**Answer: C**

**Explanation:**

Given that SUNDAY : RWKHVE :: ANNUAL : ?

We know that alphabet position A=1, B=2, C=3, D=4 ..... Z=26

then we represent above in the form of alphabet position

19 21 14 4 1 25 : 18 23 11 8 22 5 :: 1 14 14 21 1 12 : ?

from the above, the pattern is going on decreasing and increasing alphabet position sequentially -1, +2,-3,+4,-5,+6

then? = (27-1) (14+2) (14-3) (21+4) (27-5) (12+6)

then ? = 26 16 11 25 22 18

therefore ? = Z P K Y V R (represent in the form alphabet )

Hence ? = ZPKYVR Ans

**Question 34**

**In the following number series, two numbers have been put within brackets. Select the most appropriate option for these numbers in relation to their inclusion in the series.**

**1, 5, 17, (39), 65, 101, (145), 197**

- A The first bracketed number from the left is correct and the second bracketed number from the left is incorrect
- B Both the bracketed numbers are incorrect.
- C Both the bracketed numbers are correct
- D The first bracketed number from the left is incorrect and the second bracketed number from the left is correct.

**Answer: D**

**Explanation:**

Given that series 1, 5, 17, (39), 65, 101, (145), 197

the above is the pattern followed by given Below

$$0^2 + 1, 2^2 + 1, 4^2 + 1, (6^2 + 1), 8^2 + 1, 10^2 + 1, (12^2 + 1), 14^2 + 1$$

$$\Rightarrow 1, 5, 17, (37), 65, 101, (145), 197$$

from the above, we can say First Bracket number is incorrect and the second bracket number is correct.

therefore Option (D) The First Bracketed number from the left is incorrect and the second bracketed number from the left is correct.

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

**Question 35**

**Four numbers have been given out of which three are alike in some manner, while one is different. Choose the odd one.**

- A 133
- B 195

C 171

D 209

Answer: B

**Explanation:**

From the given option (B)195 is prime numbers which are divide from 5

but another option 133,171,209, not a prime number

therefore due to prime number( B), 195 is different Ans

**Question 36**

Four letter-cluster have been given out of which three are alike in some manner, while one is different. Choose the odd one

A QUAIL

B PIOUS

C AEONS

D PENAL

Answer: D

**Explanation:**

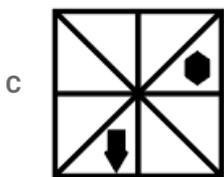
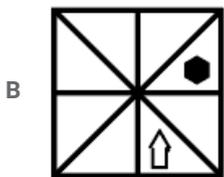
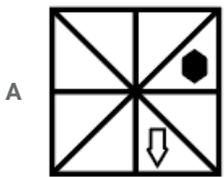
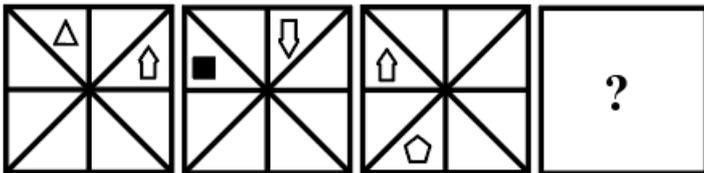
From the Above Option (A), (B), (C) follows the same pattern it used to Three vowel

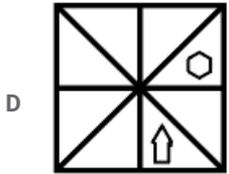
but (D) is different from another option because it used only Two Vowel

therefore (D) PENAL Ans

**Question 37**

Select the figure that will come next in the following figure Series

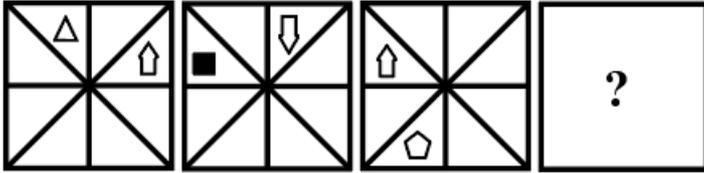




Answer: A

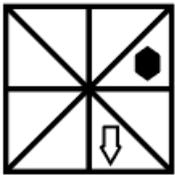
Explanation:

Given that



From the above symbols rotated to anticlockwise But hollow symbol shift one box each rotation But if symbols filled then shift two boxes each rotation and change the one symbols each rotation

then? =



therefore Option (A) Ans

## SSC Stenographer Previous Papers (Latest Pattern)

Question 38

Select the letter that can replace the question mark (?) in the following series.

B, C, E, ?, Q, G

A H

B I

C E

D F

Answer: B

Explanation:

Given series B, C, E, ?, Q, G

We know that alphabet position A=1, B=2, C=3, D=4 ..... Z=26

then the series

2, 3, 5, ?, 17, 7

then the pattern is going on 1, 2, 4, 8, 16

then? = 5+4 = 9

therefore ? = I Ans

Question 39

Select the option that will fill in the blank and complete the given series.

CYB, FUG, IQL, LMQ, OIV, \_\_\_\_\_

- A PFZ
- B REA
- C REZ
- D PEA

**Answer: B**

**Explanation:**

Given that alphabet series CYB, FUG, IQL, LMQ, OIV, \_\_\_\_

We know that alphabet position A = 1, B=2, C=3..... Z=26

then C=3, y= 25, B= 2, F=6, U= 21, G=7, I=9, Q=17, L=12, M=13, O=15,V=22

so series 3 25 2, 6 21 17, 9 17 12, 12 13 17, ?

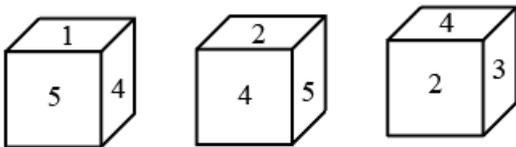
we can say that first alphabet position ascending order in 3 positions to next, second alphabet position descending order 4 position to next and third alphabet position ascending order in 5 position place

therefore next place of series? = 18 5 1

? = R E A (18 5 1) Ans

**Question 40**

Which number will appear on the bottom face in the last cube?

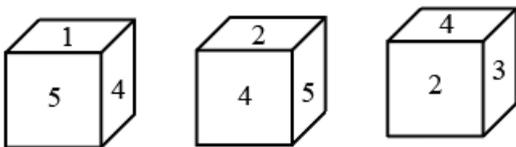


- A 3
- B 4
- C 1
- D 6

**Answer: D**

**Explanation:**

Given



From the above cube bottom face in the last = 6

therefore Option (D)6 Ans

**SSC CGL Tier-2 Previous Papers PDF**

**Question 41**

Select the option in which the numbers share the same relationship as that shared by the given set of numbers. (9, 28, 85)

- A (7, 22, 67)

- B (11, 34, 67)
- C (14, 52, 156)
- D (3, 12, 37)

**Answer: A**

**Explanation:**

Given that (9, 28, 85)

from the above is pattern follow

$$9, 9 \times 3 + 1, 28 \times 3 + 1$$

9, 28, 85

in the same pattern follow the given option (A)(7,22,67)

in the same pattern

$$7, 7 \times 3 + 1, 22 \times 3 + 1$$

7, 22, 67

Hence same relationship show Option (A)(7,22,67)

therefore Option (A) (7,22,67) Ans

**Question 42**

Select the option in which the words share the same relationship as that shared by the given pair of words.

**Food : Chef**

- A Painter : Painting
- B Farmer : Field
- C Film : Producer
- D Hospital : Doctor

**Answer: C**

**Explanation:**

Given that Food: Chef

from the above Food prepared by the chef in the option the same as Film produce by producer

therefore (C) Film: Producer Ans

**Question 43**

Select the correct equation after interchanging the operators '-' and '×' and the numbers '4' and '3'.

- A  $9 - 4 \times 3 = 21$
- B  $4 - 3 \times 9 = 3$
- C  $3 \times 4 - 9 = 9$
- D  $3 \times 9 - 4 = 4$

**Answer: B**

**Explanation:**

We check to interchange the operators '-' and '×' and the numbers '4' and '3'

we check (A)  $9 - 4 \times 3 = 21$

interchange '-' and '×' and the numbers '4' and '3'

$$9 \times 3 - 4 = 21$$

From LHS  $9 \times 3 - 4$

$$\Rightarrow 27 - 4$$

$\Rightarrow 23$  RHS it is not satisfied.

we check option (B)  $4 - 3 \times 9 = 3$

Interchange '-' and '×' and the numbers '4' and '3'

$$3 \times 4 - 9 = 3$$

From LHS  $3 \times 4 - 9$

$$\Rightarrow 12 - 9$$

$\Rightarrow 3$  RHS it is satisfied .

therefore (B) Ans

## SSC Exam Free Videos (Youtube)

### Question 44

Four pairs of numbers have been given, out of which three are alike in some manner, while one is different. Choose out the odd one

A 42, 72

B 132, 182

C 20, 42

D 56, 63

**Answer:** D

### Explanation:

From the above Option we check

Option (A) 42, 72

then  $72 - 42 = 30$  it is even

Option (B) 132, 182

then  $182 - 132 = 50$  it is even

Option (C) 20, 42

then  $42 - 20 = 22$  it is even

Option (D) 56, 63

then  $63 - 56 = 7$  it is Odd

therefore Option (D) 56, 63 is different Ans

### Question 45

Select the option that is related to the third term in the same way as the second term is related to the first term.

Wall : Brick :: Fabric : ?

A Mill

B Skirt

C Design

D Yarn

Answer: D

**Explanation:**

Given that Wall: Brick:: Fabric:?

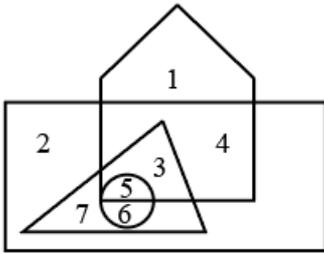
from the above Wall used to Brick the same as Fabric is used yarn.

then? = Yarn

therefore option (D) Yarn Ans

**Question 46**

In the following figure, Circle represents Surgeons, Triangle represents Doctors, Rectangles represents Professionals and Pentagon represents Indians. which number represents Indian Doctors who are also surgeons?



A 6

B 7

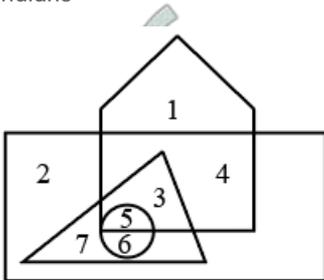
C 5

D 3

Answer: C

**Explanation:**

Given that Circle represents Surgeons, Triangle represents Doctors, Rectangles represents Professionals and Pentagon represents Indians



then from the above Venn Diagram Indian Doctors who are also surgeons = 5 ( Triangle, pentagon, and circle used to Indian doctors and Surgeons )

therefore option (C) 5 Ans

## SSC Study Material

**Question 47**

Select the option that is related to the third term in the same way as the second term is related to the first term.

A Hoof

B Saddle

C Chariot

D Seat

Answer: B

Explanation:

From the above Hoof, Chariot, Seat is similarly used by horse But Saddle is a different meaning therefore Option (B) Saddle Ans

Question 48

Four pairs of numbers have been given, out of which three are alike in some manner, while one is different. Choose out the odd one.

A 6, 12

B 24, 4

C 6, 16

D 12, 8

Answer: A

Explanation:

From the given Option (A) is different given below

(A) 6, 12

$6, 6 \times 2$

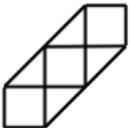
$6, 12$

in the given Option the above pattern is not follow any option

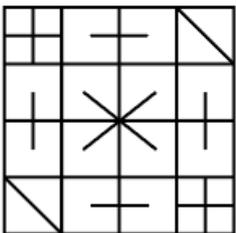
hence Option (B) 6, 12 Ans

Question 49

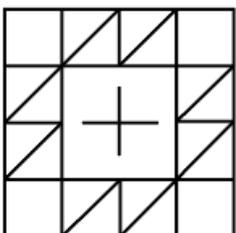
Select the option in which the given figure is embedded. (Rotation is NOT allowed)

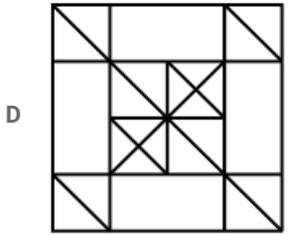
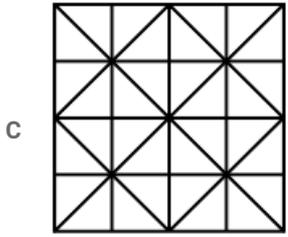


A



B





Answer: C

## SSC Daily Practice Set

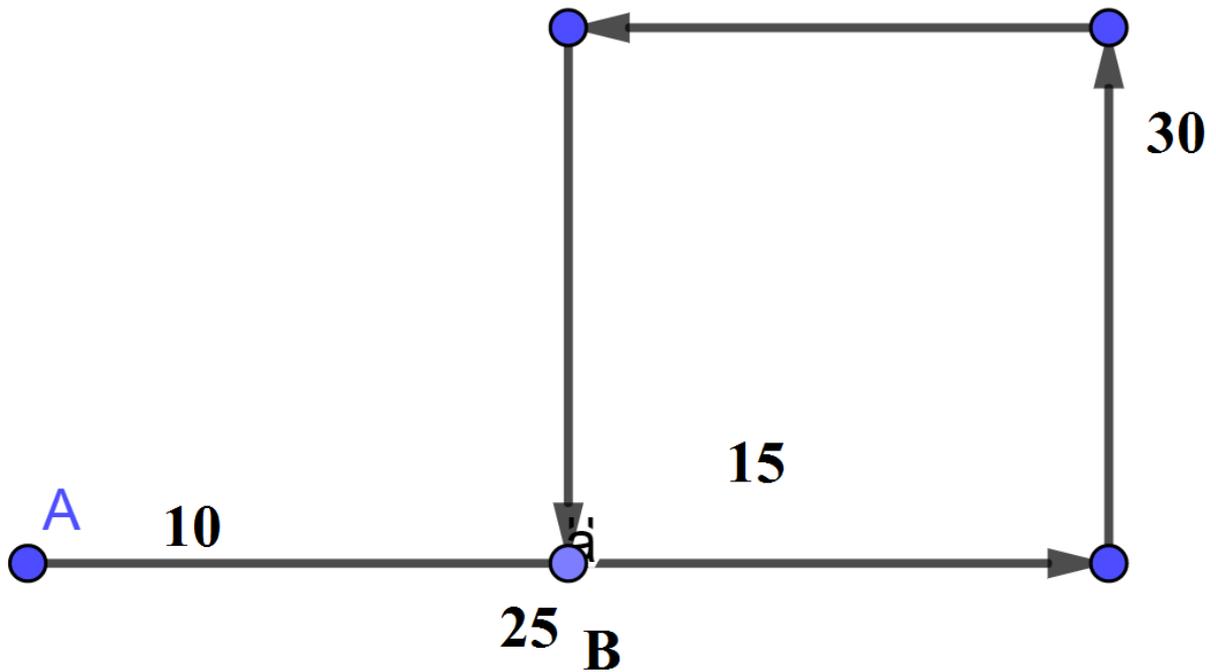
### Question 50

A bus driver started from a point 'A' and drove 25 km towards the east. He turned left and drove 30 km. He then turned left and drove 15 km. He again turned left and drove 30 km and reached a point 'B'. How far and in which direction is the point 'B' from the point 'A'?

- A 40 km, East
- B 40 km, West
- C 10 km, West
- D 10 km, East

Answer: D

Explanation:



The path of the driver is shown above so point B is from A =  $25 - 10 = 15$  km so the driver is 15 km east of A therefore Option (D) Ans

## SSC GK Free Tests

### General Knowledge and General Awareness

#### Instructions

For the following questions answer them individually

#### Question 51

In which of the following sectors, 100% FDI in equity in India is NOT permitted as per India's FDI policy?

- A Wholesale trading
- B Single-brand product retail trading
- C E-commerce activities
- D Multi-brand product retail trading

Answer: D

## Current Affairs Question and Answers (Download PDF)

#### Question 52

Identify the organ which is located on both sides in the human body?

- A Spleen
- B Liver



- C Kidney
- D Bladder

**Answer: C**

**Question 53**

**Who was the founder of the Satyashodhak Samaj in the 19th century?**

- A Swami Vivekananda
- B Ishwar Chandra Vidyasagar
- C BR Ambedkar
- D Jyotiba Phule

**Answer: D**

**Question 54**

**During the occurrence of thunder and lightning:**

- A whether lightning is seen first or thunder is heard first will depend upon the distance and angle of the clouds vis-a-vis earth
- B lightning is seen at the same time as thunder is heard
- C thunder is heard before lightning is seen
- D lightning is seen before thunder is heard

**Answer: D**

## Daily and Monthly Current Affairs (Download PDF)

**Question 55**

**Colour of the plants is green due to the presence of:**

- A Chlorophyll
- B Urea
- C Carbon dioxide
- D Oxygen

**Answer: A**

**Question 56**

**In which city are the summer Olympic Games 2024 to be held?**

- A Beijing
- B Los Angeles
- C London
- D Paris

**Answer: D**

**Question 57**

**What is Jaduguda known for?**

- A Sandalwood forests
- B Handloom industry
- C One-horned rhinoceros
- D Uranium deposits

**Answer: D**

**SSC Free Preparation App**

**Question 58**

**Which film director was given the Kalamaharshi Baburao Painter Award in the seventh Kolhapur International Film Festival in febraury 2019.**

- A Rajkumar Hirani
- B Govind Nihalani
- C Mani Ratnam
- D Ashutosh Gowariker

**Answer: B**

**Question 59**

**During whose reign did the Moroccan traveller Ibn Battuta visit India in the 14th century?**

- A Feroz Shah Tughlaq
- B Jalaluddin Khalji
- C Alauddin Khalji
- D Mohammad Bin Tughlaq

**Answer: D**

**Question 60**

**The power to enquire into and decide all doubts and disputes arising out of the**

- A Chairman of the Rajya Sabha
- B Lokpal
- C High Court of Delhi
- D Supreme Court

**Answer: D**

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### Question 61

Which Indian scientist has been chosen for the first Sheikh Saud International Prize for Materials Research by the Centre for Advanced Materials of the UAE?

- A Ashok Sen
- B CNR Rao
- C Jayant Narlikar
- D Raghunath Anant Mashelka

Answer: B

### Question 62

As per the Constitution of India, the National Capital Territory of Delhi shall have a Council of Ministers consisting of not more than \_\_\_\_\_ of the total number of members in the Legislative Assembly.

- A 0.05
- B 0.15
- C 0.2
- D 0.1

Answer: D

### Question 63

What is the maximum number of Starred Questions for oral answers admitted for discussion on a particular day in the Lok Sabha?

- A 20
- B 10
- C 15
- D 12

Answer: A

## SSC CHSL Previous Papers (DOWNLOAD PDF)

### Question 64

Which of the following tribes belongs to Sikkim?

- A Angami
- B Bhutia
- C Gond
- D Chenchu

Answer: B

**Question 65**

The Governor-General of India was given the title of Viceroy for the first time in:

- A 1859
- B 1858
- C 1856
- D 1857

**Answer: B**

**Question 66**

What is the amount of insurance cover available for accidental death under the Pradhan Mantri Suraksha Bima Yojana (PMSBY)?

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

**Answer: C**

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

**Question 67**

Name the famous Indian painter who was honoured with the Kaisar-i-Hind gold medal by the British Viceroy of India, Lord Curzon.

- A Jamini Roy
- B Abanindranath Tagore
- C Raja Ravi Varma
- D Nandalal Bose

**Answer: C**

**Question 68**

A wound stops bleeding due to the process of clot formation called:

- A fermentation
- B coagulation
- C transfusion
- D incubation

**Answer: B**

**Question 69**

As per the Constitution of India, Panchayats at the intermediate level may not be constituted in a state having a population not exceeding:

- A twenty-five lakh
- B twelve lakh
- C twenty lakh
- D fifteen lakh

**Answer: C**

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

### Question 70

Which Indian personality was given knighthood by the British monarch but he returned it after the Jallianwala massacre?

- A Rabindranath Tagore
- B Motilal Nehru
- C Gopal Krishna Gokhale
- D Aurobindo Ghosh

**Answer: A**

### Question 71

The term 'Askaryan effect' is associated with which functional area of science?

- A Physics
- B Geology
- C Chemistry
- D Biology

**Answer: A**

### Question 72

Which athlete won a Gold Medal for India in Men's triple jump event after a gap of 48 years in the Asian Games?

- A Amarjeet Singh
- B Renjith Maheshwary
- C Rakesh Babu
- D Arpinder Singh

**Answer: D**

## SSC CPO Free Mock Test (Latest Pattern)

### Question 73

What was India's rank in the Commonwealth Games 2018 in terms of number of gold medals won?

- A Fourth
- B First
- C Third
- D Second

**Answer: C**

**Question 74**

**In which state is the Ponung folk dance practised?**

- A Manipur
- B Arunachal Pradesh
- C Sikkim
- D Assam

**Answer: B**

**Question 75**

**With which sport is Dattu Bhokanal associated?**

- A Kabaddi
- B Archery
- C Equestrian
- D Rowing

**Answer: D**

## SSC CPO Previous Papers

**Question 76**

**The function of the retina is to :**

- A close the eyes through the eyelids to prevent damage to the lens from excessive light
- B process the information gathered by photoreceptor cells and send it to the brain to decide what the picture is
- C lubricate the eye by releasing tears in a controlled way
- D adjust the focus of the lens for formation of a clear image

**Answer: B**

**Question 77**

**The solar eclipse occurs when:**

- A an asteroid comes between the sun and the moon
- B the moon moves too far away from the sun

C the sun comes between the moon and the earth

D the moon comes between the earth and the sun

Answer: D

Question 78

As per the data released by the Sample Registration System for the year 2016, what is the infant mortality rate in India?

A 34 per 1000 live births

B 23 per 1000 live births

C 47 per 1000 live births

D 43 per 1000 live births

Answer: A

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

Question 79

Which among the following is NOT one of the three parallel ranges of Himalayas in its longitudinal extent?

A Himadri

B Himshikha

C Shiwaliks

D Himachal

Answer: B

Question 80

Who has become India's first woman IPS officer to successfully complete the South Pole expedition?

A Malavath Purna

B Chhanda Gayen

C Aparna Kumar

D Kalpana Dash

Answer: C

Question 81

The 10 per cent reservation in central government jobs under economically weaker sections (EWS) category is available to the persons whose family income is below:

A ₹7 lakh

B ₹8 lakh

C ₹5 lakh

D ₹6 lakh

Answer: B

## SSC CGL Free Mock Test (Latest Pattern)

Question 82

To which state does the Bagh style of textile art printing belong?

- A Telangana
- B Gujarat
- C Rajasthan
- D Madhya Pradesh

Answer: D

Question 83

Which organisation is operating the Pradhan Mantri Vaya Vandana Yojana of the Government of India?

- A Unit Trust of India
- B Post Office
- C LIC of India
- D State Bank of India

Answer: C

Question 84

Every Panchayat, unless sooner dissolved under any law for the time being in force, shall continue for \_\_\_\_\_ year/s from the date appointed for its first meeting and no longer.

- A three
- B two
- C five
- D one

Answer: C

## SSC CGL Previous Papers (DOWNLOAD PDF)

Question 85

The sun heats the earth through:

- A convection
- B radiation
- C conduction
- D fission

Answer: B

**Question 86**

The process of transformation of a substance in a gaseous state into a liquid state due to change in pressure or temperature of the substance is called:

- A evaporation
- B saturation
- C condensation
- D transformation

Answer: C

**Question 87**

7 Which of the following styles of painting belongs to Maharashtra?

- A Kalam
- B Madhubani
- C Miniature
- D Warli

Answer: D

## Daily Free SSC Practice Set

**Question 88**

What is the maximum age for joining Atal Pension Yojana?

- A 45 years
- B 35 years
- C 50 years
- D 40 years

Answer: D

**Question 89**

Which of the following personalities was NOT a recipient of the Bharat Ratna Award in 2019?

- A Nanaji Deshmukh
- B Bhupen Hazarika
- C Shyama Prasad Mukherjee
- D Pranab Mukherjee

Answer: C

**Question 90**

**Who has been elected as the new king of Malaysia in January 2019?**

- A Sultan Abdullah
- B Sultan Nazrin Shah
- C Sultan Abdul Halim
- D Sultan Mohammad V

**Answer: A**

**General Science Notes (Download PDF)**

**Question 91**

**Which protein protects the epithelial cells from damage?**

- A Collagen
- B Elastin
- C Actin
- D Keratin

**Answer: D**

**Question 92**

**What will happen if a glass bottle is completely filled with water, sealed with a lid and put into a freezer?**

- A The glass bottle will be deformed due to atmospheric pressure on the bottle after the water freezes
- B Eventually, the ice will burst the glass bottle
- C Nothing will happen
- D Weight of the glass bottle will increase after water freezes into ice

**Answer: B**

**Question 93**

**Home to the snow leopard, the Hemis National Park is located in:**

- A Lakshadweep
- B Himachal Pradesh
- C Arunachal Pradesh
- D Ladakh

**Answer: D**

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

Question 94

Which king inscribed the Hathigumpha (Elephant Cave) inscription in Udayagiri Hills, Odisha?

- A Galaveya
- B Sobhanaraja
- C Kharavela
- D Vaduka

Answer: C

Question 95

In which state is the Madai festival celebrated?

- A Chhattisgarh
- B Jharkhand
- C Odisha
- D Jammu and Kashmir

Answer: A

Question 96

In which field has Balwant Moreswar Purandare been conferred the Padma Vibhushan Award in 2019?

- A Music-Flute
- B Folk dance
- C Painting
- D Art-Acting-Theatre

Answer: D

## SSC Stenographer Previous Papers (Latest Pattern)

Question 97

Sweating or perspiration is nature's way of:

- A releasing excess salt from the body
- B warding off harmful insects through the bad odour of the sweat
- C releasing excess water from the body
- D lowering the internal temperature of the body

Answer: D

Question 98

In which state is the archaeological site of Surkotada situated?

- A Rajasthan
- B Karnataka
- C Haryana
- D Gujarat

Answer: D

**Question 99**

The President may resign from his office by writing under his hand addressed to the:

- A Prime Minister of India
- B Chief Election Commissioner
- C Vice President
- D Speaker of the Lok Sabha

Answer: C

## SSC CGL Tier-2 Previous Papers PDF

**Question 100**

As per the 2011 census, Hindi has retained its position as a predominant language spoken by about \_\_\_\_\_ of the population.

- A 0.3936
- B 0.4625
- C 0.37
- D 0.4363

Answer: D

## SSC Exam Free Videos (Youtube)

### Quantitative Aptitude

**Instructions**

For the following questions answer them individually

**Question 101**

If  $x^4 + x^2 y^2 + y^4 = 21$ , and  $x^2 + xy + y^2 = 3$ , then what is the value of  $4xy$ ?

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

Answer: C

**Explanation:**

Given that  $x^4 + x^2y^2 + y^4 = 21$

$$x^2 + xy + y^2 = 3 \quad \text{Equation (1)}$$

$$\Rightarrow (x^2 + xy + y^2)^2 = (3)^2 \quad (\text{Squaring both side (1)})$$

$$\Rightarrow x^4 + x^2y^2 + y^4 + 2x^3y + 2xy^3 + 2x^2y^2 = 9$$

(From the formula  $(a+b+c)^2 = a^2 + b^2 + c^2 + 2ab + 2bc + 2ca$ )

$$\Rightarrow 21 + 2x^3y + 2xy^3 + 2x^2y^2 = 9 \quad (\text{put the value from given question})$$

$$\Rightarrow 2x^3y + 2xy^3 + 2x^2y^2 = 9 - 21$$

$$\Rightarrow 2x^3y + 2xy^3 + 2x^2y^2 = -12$$

$$\Rightarrow 2xy(x^2 + y^2 + xy) = -12 \quad (\text{taken a common } 2xy)$$

$$\Rightarrow 2xy(3) = -12 \quad (\text{put the value from equation (1)})$$

$$\Rightarrow 2xy = \frac{-12}{3} = -4$$

$$\Rightarrow 4xy = -8 \quad \text{Ans (multiply by 2 both side)}$$

## SSC Study Material

### Question 102

If  $x$  is subtracted from each of the numbers 20, 37, 54 and 105, then the numbers so obtained in this order are in proportion. What is the mean proportional between  $(7x - 5)$  and  $(x + 1)$ ?

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

**Answer:** A

**Explanation:**

As per question  $\frac{20-x}{37-x} = \frac{54-x}{105-x}$

$$\Rightarrow 2100 - 20x - 105x + x^2 = 1998 - 37x - 54x + x^2$$

$$\Rightarrow 125x - 91x = 2100 - 1998$$

$$\Rightarrow 34x = 102$$

$$\Rightarrow x = 3$$

mean proportional between  $(7x - 5)$  and  $(x + 1) = \sqrt{(7x - 5)(x + 1)}$

$$\Rightarrow \sqrt{(7 \times 3 - 5)(3 + 1)}$$
 put the value  $x = 3$

$$\Rightarrow \sqrt{16 \times 4}$$

$$\Rightarrow \sqrt{64}$$

$$\Rightarrow 8 \quad \text{Ans}$$

### Question 103

If  $60\%$  of  $(x - y) = 45\%$  of  $(x + y)$  and  $y = k\%$  of  $x$ , then  $21\%$  of  $k$  is equal to

- A 7
- B 6
- C 3

D 1

Answer: C

Explanation:

Given that  $\frac{60}{100} \times (x-y) = \frac{45}{100} \times (x+y)$

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

$$\Rightarrow 4x - 4y = 3x + 3y$$

$$\Rightarrow x = 7y$$

$$\Rightarrow \frac{y}{x} = \frac{1}{7}$$

and  $y = \frac{k}{100} \times x$

$$\Rightarrow k = \frac{100}{x} y$$

$$\Rightarrow k = \frac{100}{7}$$

hence 21 % of K =  $\frac{21}{100} \times \frac{100}{7}$

$$\Rightarrow 3 \text{ Ans}$$

Question 104

By selling an article for ₹1,134, Anu suffers as much loss as she would have gained by selling it at 10% profit. If she sells it for ₹1,354.50, then her profit percentage is

A 9

B 8

C 8.4

D 7.5

Answer: D

Explanation:

Let the cost price =  $x$

So as per question  $x - 1134 = \frac{10}{100}x$

$$\Rightarrow 0.9x = 1134$$

$$\Rightarrow x = 1260$$

Now selling it Rs 1354.5

then % gain =  $\frac{1354.5 - 1260}{1260} \times 100$

$$\Rightarrow 7.5 \text{ Ans}$$

## SSC Daily Practice Set

Question 105

A can do  $\frac{2}{5}$  of a work in 6 days and B can do  $\frac{2}{3}$  of the same work in 12 days. A and B worked together for 6 days. C alone completed the remaining work in 8 days. A and C, working together, will complete the same work in:

A 12 days

B 9 days

C 10 days

D 8 days

Answer: C

**Explanation:**

A can do  $\frac{2}{3}$  work in days

A complete work in  $\frac{6}{2} \times 5 = 15$  days

B can do  $\frac{2}{3}$  work in 12 days

B complete work in  $\frac{12}{2} \times 3 = 18$  days

1 day work of A and B =  $\frac{1}{15} + \frac{1}{18}$

$\Rightarrow \frac{6+5}{90} = \frac{11}{90}$  units

Remaining work =  $1 - \frac{11}{90} \times 6 = \frac{24}{90} = \frac{4}{15}$

This work is completed by C in 8 days

1 day work of C =  $\frac{4}{15} \times 8 = \frac{1}{30}$  units

1 day work of A and C =  $\frac{1}{15} + \frac{1}{30} = \frac{2+1}{30} = \frac{1}{10}$  units

Time taken by A and C to complete work = 10 days

**Question 106**

If  $x^2 - \sqrt{7}x + 1 = 0$ , then  $(x^3 + x^{-3}) = ?$

A  $10\sqrt{7}$

B  $4\sqrt{7}$

C  $7\sqrt{7}$

D  $3\sqrt{7}$

**Answer: B**

**Explanation:**

$x^2 - \sqrt{7}x + 1 = 0$

$\Rightarrow x^2 + 1 = \sqrt{7}x$

$\Rightarrow \frac{x^2 + 1}{x} = \sqrt{7}$

$\Rightarrow x + \frac{1}{x} = \sqrt{7}$

so  $x^3 + x^{-3} = x^3 + \frac{1}{x^3}$

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

$\Rightarrow (\sqrt{7})^3 - 3\sqrt{7}$

$\Rightarrow 7\sqrt{7} - 2\sqrt{7}$

$\Rightarrow 4\sqrt{7}$  Ans

**Question 107**

A, B and C can do piece of work in 30 days, 45 days and 90 days, respectively. A starts the work and he is assisted by B and C together on every third day. In how many days will the work be completed?

A 23

B 24

C  $22\frac{1}{2}$

D 30

**Answer: A**

**Explanation:**

A work = 30 days

B = 45 days

C = 90 days

then total work 90 (taken LCM A, B and C work)

Efficiency of A = 3, B = 2 and C = 1

then Day 1 only A work = 3

Day 2 only A work = 3

Day 3 A, B, C work together = 6

12 work every 3 days

then it repeat

12 work = 3 days

84 work = 21 days

remaining work  $90 - 84 = 6$  work

Another 2 days complete work by A

so total day  $21 + 2 = 23$  days Ans

## SSC GK Free Tests

### Question 108

The value of  $\frac{1}{\sqrt{7-4\sqrt{3}}}$  is closest to

A 4.1

B 4.2

C 1.2

D 3.7

Answer: D

### Explanation:

$$\frac{1}{\sqrt{7-4\sqrt{3}}}$$

$$\rightarrow \frac{1}{(2)^2 + (\sqrt{3})^2 - 2 \times 2 \times \sqrt{3}}$$
 factor of given expression

$$\rightarrow \frac{1}{(\sqrt{2-\sqrt{3}})^2}$$
 used formula

$$\rightarrow \frac{1}{(2-\sqrt{3})}$$
 (Remove Root)

$$\rightarrow \frac{1}{2-\sqrt{3}} \times \frac{2+\sqrt{3}}{2+\sqrt{3}}$$

$$\rightarrow \frac{2+\sqrt{3}}{4-3}$$

$$\rightarrow 2 + \sqrt{3}$$

$$\rightarrow 2 + 1.73$$

$$\rightarrow 3.73$$

$$\rightarrow 3.7$$
 Ans

### Question 109

A, B and C started a business with their capitals in the ratio 4 : 2 : 9. At the end of every quarter, A halves his capital, whereas B doubles his capital and C leaves his capital unchanged. If at the end of a year, A's profit was ₹24,000, then what is the total profit (in ₹) is

A ₹2,16,000

B ₹2,30,400

C ₹2,35,200

D ₹2,25,600

**Answer: C**

**Explanation:**

A, B, and C started the business with their capital in ratio = 4: 2: 9

lets A's initial capital =  $4x$

B's initial capital =  $2x$

C's initial capital =  $9x$

Haves his capital quarterly, B doubles his capital quarterly and C keeps his capital unchanged.

so total capital of A =  $4x \times 3 + 2x \times 3 + x \times 3 + \frac{x}{2} \times 3$

$\rightarrow (4x + 2x + x + \frac{x}{2}) \times 3$

$\rightarrow \frac{15x}{2} \times 3$

total capital of B =  $2x \times 3 + 4x \times 3 + 8x \times 3 + 16x \times 3$

$\rightarrow (2x + 4x + 8x + 16x) \times 3$

$\rightarrow 30x \times 3$

total capital of C =  $9x \times 12$

then capital Ratio =  $\frac{15}{2} \times 3 : 30x \times 3 : 9x \times 12$

$\rightarrow \frac{15}{2} : 30 : 9 \times 4$

$\rightarrow 15 : 60 : 72$

Let total profit = P As profit share = Rs 24000

Capital ratio = profit ratio = 15:60 : 72

$P \times \frac{15}{15+60+72} = 24000$

$\rightarrow P \times \frac{15}{147} = 24000$

$\rightarrow P = \frac{24000 \times 147}{15}$

$\rightarrow P = 235200$

$\rightarrow$  total profit (P) = 235200 Ans

**Question 110**

A circle touches the side BC of a  $\triangle ABC$  at P and also touches AB and AC produced at Q and R, respectively. If the perimeter of  $\triangle ABC = 26.4$  cm, then the length of AQ is:

A 8.8 cm

B 13.2 cm

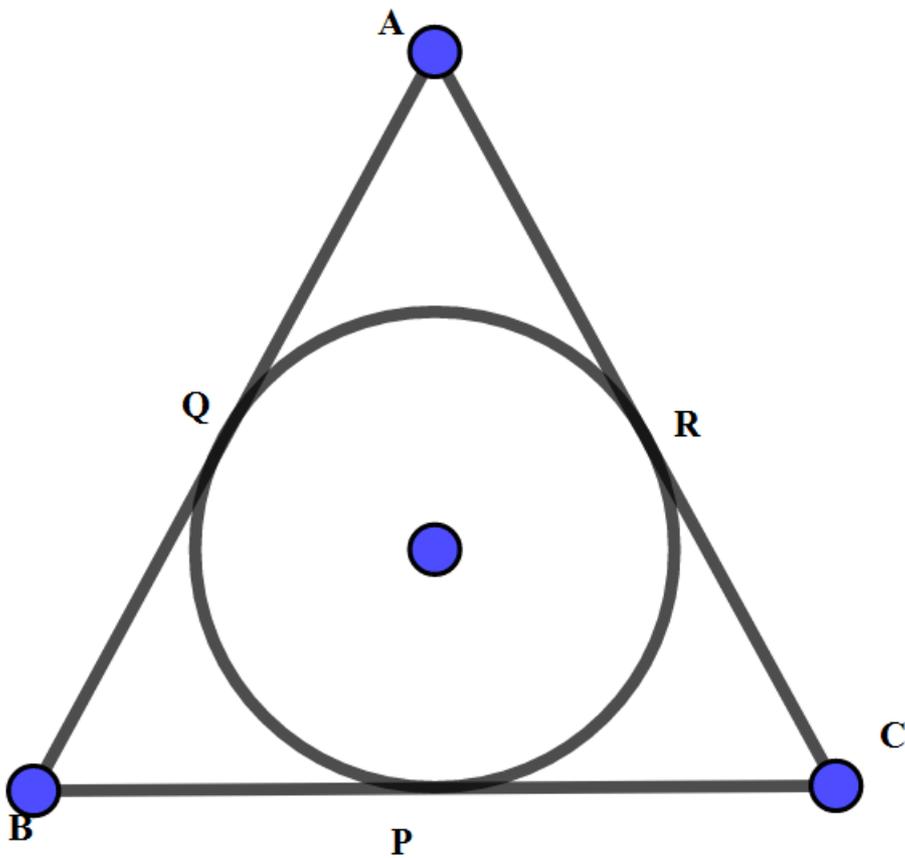
C 15.4 cm

D 17.6 cm

**Answer: B**

**Explanation:**

From the given question we draw the diagram is given below



From the above diagram

$AQ = AR$  (from A) (Length down from external tangent in equal)

$BQ = BP$  (from B)

$CP = CR$  (from C)

$$\begin{aligned} \text{Perimeter of } \triangle ABC &= AB + BC + CA \\ &= AB + (BP + PC) + (AR + CR) \end{aligned}$$

$$\text{Perimeter of } \triangle ABC = (AB + BQ) + (PC) + (AQ + PC)$$

(Using the value  $AQ = AR$ ,  $BQ = BP$ ,  $CP = CR$ )

$$\text{Perimeter of } \triangle ABC = 2AQ$$

$$\Rightarrow AQ = \frac{1}{2} \times \text{perimeter of } \triangle ABC$$

$$\begin{aligned} \Rightarrow AQ &= \frac{1}{2} \times 26.4 \\ &= 13.2 \text{ cm} \end{aligned} \text{Ans}$$

## Current Affairs Question and Answers (Download PDF)

### Question 111

Two trains running in opposite directions on parallel tracks, at speeds of 42 km/h and 57 km/h, take 18 seconds to cross each other. If the length of one train is 270 m, then the length of the other train is:

A 242 m

B 225 m

C 250 m

D 230 m

**Answer: B**

**Explanation:**

let second train length =  $x$  meter

Both trains relative speed =  $42 + 57 = 99$  km/hr

change into m/s =  $99 \times \frac{5}{18}$  m/s

given  $t$  (time taken) = 18 second

so according to question  $270 + x = 99 \times \frac{5}{18} \times 18$

$\Rightarrow 270 + x = 495$

$\Rightarrow x = 495 - 270 = 225$  meter Ans

**Question 112**

**A sum of money becomes ₹35,680 after 3 years and ₹53,520 after 6 years at a certain rate percentage p.a., interest compounded yearly. What is the compound interest on the same sum in the first case? (Your answer should be nearest to an integer)**

A ₹11,983

B ₹11,893

C ₹10,842

D ₹11,938

**Answer: B**

**Explanation:**

We know that the formula  $A = p \left(1 + \frac{R}{100}\right)^t$

then put the value from the given question  $35680 = p \left(1 + \frac{R}{100}\right)^3$  ..... equation (1)

and again put the value  $53520 = p \left(1 + \frac{R}{100}\right)^6$  ..... equation (2)

so divide equation(1) from equation (2)

$\Rightarrow 1.5 = \left(1 + \frac{R}{100}\right)^3$

$\Rightarrow R = \left[\left(1.5\right)^{\frac{1}{3}} - 1\right] \times 100$

put the value in equation (1) so  $35680 = p \times 1.5$

$\Rightarrow p = \frac{35680}{1.5}$

so compound interest =  $35680 - \frac{35680}{1.5}$

$\Rightarrow CI = 35680 - 23786.66$

$\Rightarrow CI = 11893.34$

$\Rightarrow$  compound interest (CI) = Rs 11,893 Ans

**Question 113**

**Pipes A, B and C together can fill a cistern in 12 hours. All the three pipes are opened together for 4 hours and then C is closed. A and B together take 10 hours to fill the remaining part of the cistern. C alone will fill two-thirds of the cistern in:**

A 40 hours

B 48 hours

C 60 hours

D 50 hours

Answer: A

**Explanation:**

Given that A, B, C together can fill a cistern = 12 hours

then  $(A+B+C)$  can fill the tank =  $\frac{1}{12}$

$A+B+C$  all three pipe opened together for 4 hours =  $\frac{4}{12} = \frac{1}{3}$

Remaining part the cistern =  $1 - \frac{1}{3} = \frac{2}{3}$

Time taken  $(A+B)$  to fill  $\frac{2}{3}$  part 10 hours

To fill empty tank  $(A+B)$  take =  $10 \times \frac{3}{2}$

$\rightarrow$  15 hours

C can tank to fill one hours =  $\frac{1}{12} - \frac{1}{15}$

$\rightarrow \frac{5-4}{60} = \frac{1}{60}$

C alone fill the tank in 60 hours

C alone fill  $\frac{2}{3}$  of the cistern =  $60 \times \frac{2}{3}$

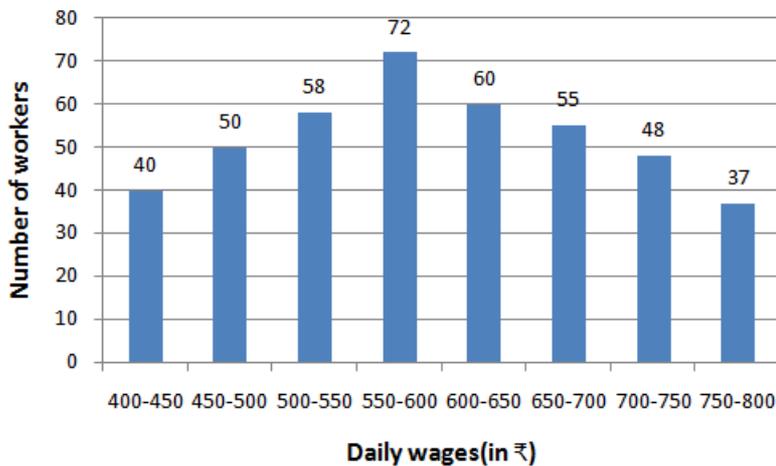
$\rightarrow$  40 hours

## Daily and Monthly Current Affairs (Download PDF)

Question 114

Study the graph and answer the question

**Daily wages (in ₹) of workers in a factory**



The number of workers in the factory whose daily wages are ₹450 or more but less than ₹600 is

A 148

B 180

C 190

D 170

Answer: B

**Explanation:**

The number of workers in the factory whose daily wages are Rs 450 or more but less than Rs600 is

from the given D I =  $50 + 58 + 72 = 180$  Ans

Question 115

If the 7-digit number  $x468y05$  is divisible by 11, then what is the value of  $(x + y)$ ?

- A 8
- B 10
- C 14
- D 12

Answer: D

Explanation:

Given numbers  $x468y05$

For divisibility by 11 difference of the sum of digits at the alternate place is taken and made divisible by 11

then  $(x + 6 + y + 5) - (4 + 8 + 0)$

$\Rightarrow (x + y + 11) - 12$

$\Rightarrow \frac{(x + y - 1)}{11}$

Now  $(x + y)$  should be such number that on subtracting 1 from it we should get a number divisible by 11 so the probable

the answer would be 12 is  $(x + y) = 12$

As  $\frac{(x + y - 1)}{11}$

$\Rightarrow \frac{12 - 1}{11}$

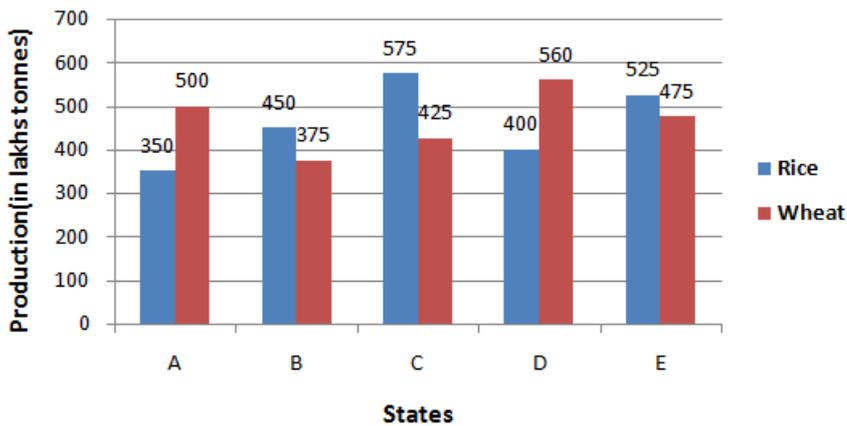
$\Rightarrow \frac{11}{11} = 1$

Ans = 12

Question 116

Study the graph and answer the question.

Production (in lakh tonnes) of rice and wheat in five states of a country in 2018



Total production of wheat in states A, B and E is what percentage less than the total production of rice in states C, D and E?

- A 10
- B 12
- C 12.2
- D 11.1

Answer: A

**Explanation:**

Production of wheat in the state A, B, and E =  $500+375+475 = 1350$

Production of rice in the state C, D, and E =  $575+400+525 = 1500$

In % less of A,B and E from C, D and E =  $\frac{1500-1350}{1500} \times 100$

$\Rightarrow \frac{150}{1500} \times 100$

$\Rightarrow 10$  % Ans

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**Question 117**

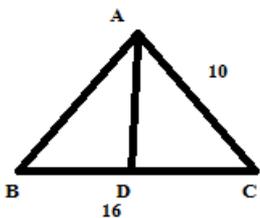
D is a point on the side BC of a  $\triangle ABC$  such that  $\angle ADC = \angle BAC$ . If CA = 10 cm and BC = 16 cm then the length of CD is:

- A 6.25 cm
- B 6.5 cm
- C 7 cm
- D 6 cm

**Answer:** A

**Explanation:**

Given that CA= 10, BC = 16 in the  $\triangle ABC$



from the above triangle,

$\triangle ABC$  and  $\triangle DAC$

$\angle ADC = \angle BAC$  (given that)

$\Rightarrow \angle A = \angle D$

$\angle B = \angle DAC$

then  $\triangle ABC$  and  $\triangle DAC$

$\Rightarrow \frac{AC}{DC} = \frac{BC}{AC}$

$\Rightarrow \frac{10}{CD} = \frac{16}{10}$  (put the value)

$\Rightarrow CD = \frac{100}{16}$

$\Rightarrow CD = 6.25$  CM Ans

**Question 118**

The average weight of some students in a class was 60.5 kg. When 8 students, whose average weight was 65 kg, joined the class, then the average weight of all the students increased by 0.9 kg. The number of students in the class, initially, was:

- A 32
- B 40
- C 37

D 42

Answer: A

**Explanation:**

Let assume initially number of students =  $x$

Sum of their weight =  $60.5 \times x$

New Average =  $60.5 + 0.9 = 61.4$

As per question  $60.5x + 8 \times 65 = 61.4(x + 8)$

$\Rightarrow 60.5x + 520 = 61.4x + 491.2$

$\Rightarrow 60.5x - 61.4x = 491.2 - 520$

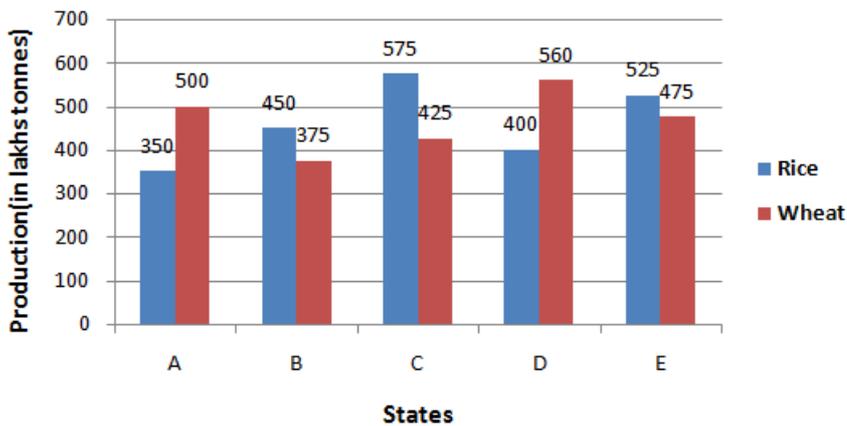
$\Rightarrow -0.9x = -28.8$

$\Rightarrow x = \frac{28.8}{0.9} = 32$  Ans

**Question 119**

Study the graph and answer the question.

**Production (in lakh tonnes) of rice and wheat in five states of a country in 2018**



The ratio of the total production of rice in states C and to the total production of wheat in states B and is .....

A 11:10

B 22:19

C 20:17

D 13:12

Answer: A

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**Question 120**

Pipes A, B and C can fill a tank in 10, 15 and 30 hours, respectively. D is an emptying pipe which alone can empty the full tank in  $x$  hours. A, B and C are opened together for 3 hours and then closed. Now D is opened which alone empties the tank in 30 hours. What is the value of  $x$  ?

A 40

B 50

C 60

D 45

Answer: B

**Explanation:**

Let the D is empty the tank =  $x$  hours

Pipe A, B, and C can fill the tank = 10 hours, 15 hours, and 30 hours

take Lcm A, B, C, and D = 30

so A efficiency =  $3x$ , B efficiency =  $2x$ , C efficiency =  $x$  and D efficiency =  $30$

we know that capacity = efficiency  $\times$  time

According to the question (A+B+C) together work to 3 hours

then capacity of tank fill in 3 hours =  $(A+B+C) \times 3 = 6x \times 3 = 18x$

Now D alone can empty  $18x$  in 30 hours

so  $18x = D \text{ efficiency} \times 30$

$\Rightarrow 18x = 30 \times 30$  (put the value)

$\Rightarrow x = \frac{30 \times 30}{18}$

$\Rightarrow x = \frac{900}{18}$

$\Rightarrow x = 50$  hours Ans

**Question 121**

Let  $x$  be the least 4-digit number which when divided by 2, 3, 4, 5, 6 and 7 leaves a remainder of 1 in each case. If  $x$  lies between 2800 and 3000, then what is the sum of the digits of  $x$ ?

A 15

B 16

C 12

D 13

Answer: B

**Explanation:**

Given numbers (2,3,4,5,6,7)

taken Lcm = 420 from given above numbers

Now, multiply of 420 are  $420 \times 1 = 420$

$\Rightarrow 420 \times 2 = 840$

.....

.....

$420 \times 7 = 2940 + 1 = 2941$  (which is lies between 2800 and 2900)

then sum of digits =  $2+9+4+1 = 16$  Ans

**Question 122**

The average of  $n$  numbers is 42. If 75% of the numbers are increased by 4 each and the remaining numbers are decreased by 8 each, then what is the average of the numbers, so obtained?

A 43.8

B 43

C 42.5

D 44

Answer: B

Explanation:

Total numbers = n

Average of n numbers = 42

A sum of n numbers = 42 n

Now 75% of numbers =  $\frac{75}{100} \times n = \frac{3}{4}n$

sum of  $\frac{3}{4}n$  numbers increased =  $\frac{3}{4} \times n \times 42 \times 4 \times \frac{3}{4}n$

$\Rightarrow \frac{63n}{2} + 3n = \frac{69}{2}n$

sum of left 25% numbers =  $\frac{25}{100} \times n \times 42 - 8 \times \frac{1}{4}n$

$\Rightarrow \frac{21n}{2} - 2n$

$\Rightarrow \frac{17n}{2}$

Now total sum =  $\frac{69n}{2} + \frac{17n}{2}$

$\Rightarrow \frac{86n}{2}$

$\Rightarrow \frac{43n}{1} = 43n$

Now Average =  $\frac{43n}{n} = 43$  Ans

## SSC CHSL Previous Papers (DOWNLOAD PDF)

### Question 123

A certain sum (in ₹) is invested at simple interest at y% per annum for at  $3\frac{1}{2}$  years. Had it been invested at (y + 4) % per annum at simple interest, it would have fetched ₹4,452 more as interest. What is the sum?

A ₹42,400

B ₹31,800

C ₹30,400

D ₹42,800

Answer: B

Explanation:

A sum be = ₹x

Given that, T =  $3\frac{1}{2}$  year =  $\frac{7}{2}$  year

R = y % per annual

formula Simple interest =  $\frac{PRT}{100}$  (where p is principle R = rate, and T = time)

Case (1) Simple interest =  $\frac{x \times y \times \frac{7}{2}}{100}$

$\Rightarrow \frac{7xy}{200}$

case (2) given that P = ₹x, T =  $\frac{7}{2}$ , R = (y + 4) %

so Simple interest =  $\frac{x \times (y+4) \times \frac{7}{2}}{100}$

$\Rightarrow \frac{7x \times (y+4)}{200}$

According to question  $\frac{7x(y+4)}{200} - \frac{7xy}{200} = 4452$

$$\rightarrow \frac{7xy}{200} + \frac{28x}{200} - \frac{7xy}{200} = 4452$$

$$\rightarrow x = \frac{4452 \times 200}{28}$$

$$\rightarrow x = \text{Rs } 31800 \text{ Ans}$$

**Question 124**

When the price of sugar increased by 28%, a family reduced its consumption per month such that the expenditure on sugar was only 12% more than the earlier one. If the family consumed 18.4 kg sugar per month earlier, then what is its new consumption of sugar per month?

- A 16.6 kg
- B 16.1 kg
- C 15.75 kg
- D 15.8 kg

**Answer: B**

**Explanation:**

Assume initial price =  $x$

new price = 128% of  $x$

$$\rightarrow \frac{128}{100}x$$

$$\rightarrow 1.28x$$

Initial expenditure =  $18.4 \times x$

new expenditure = 112% of  $(18.4 \times x)$

$$\rightarrow \frac{112}{100} \times (18.4 \times x)$$

New consumption =  $\frac{112 \times (18.4 \times x)}{100 \times 1.28x}$

$$\rightarrow 16.1 \text{ Kg Ans}$$

**Question 125**

A person travels a distance of 240 km, partly by train and the rest by bus. He takes  $3\frac{1}{2}$  hours if he travels 150 km by the train and the rest by bus. If he travels 140 km by bus and rest by train. He takes  $3\frac{2}{3}$  hours. What is the Speed of the train?

- A 72 km/h
- B 75 km/h
- C 80 km/h
- D 70 km/h

**Answer: B**

**Explanation:**

Let speed of train =  $x$  km/hr

and speed of bus =  $y$  km/hr

according to question  $\frac{150}{x} + \frac{90}{y} = \frac{7}{2}$  ..... equation (1)

(where total distance  $240 - 150 = 90$  km travel by bus, total time taken =  $3\frac{1}{2}$ )

again  $\frac{100}{x} + \frac{140}{y} = \frac{11}{3}$  ..... equation (2)

we multiply by equation (1) by 2 and equation (2) multiply by 3

then subtract equation (2) from (1) we find that

$$\frac{180 - 420}{y} = -4$$

$$\Rightarrow y = \frac{-240}{-4}$$

$$\Rightarrow y = 60$$

put  $y = 60$  in equation (1)

$$\text{then } \frac{150}{x} + \frac{90}{60} = \frac{7}{2}$$

$$\Rightarrow x = \frac{150}{2}$$

$$\Rightarrow x = 75 \text{ km/hr Ans}$$

## SSC CHSL Free Mock Test (Latest Pattern)

### Question 126

P is a point outside a circle with centre O, and it is 14 cm away from the centre. A secant PAB drawn from P intersects the circle at the points A and B such that PA = 10 cm and PB = 16 cm. The diameter of the Circle is:

A 10 cm

B 13 cm

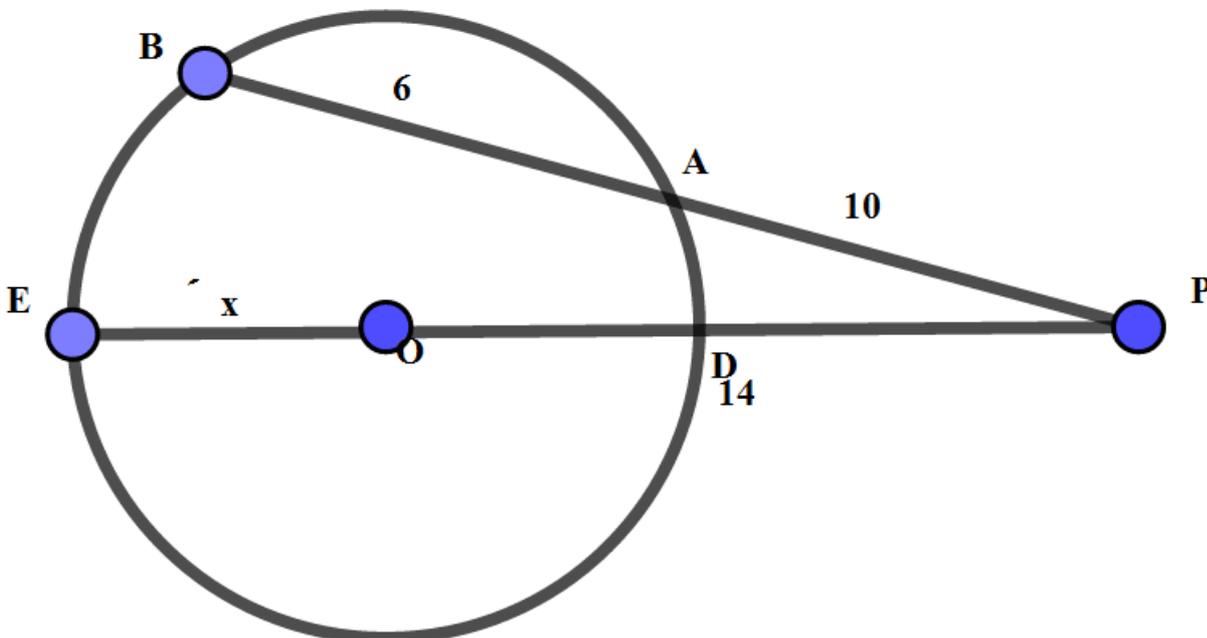
C 12 cm

D 11 cm

Answer: C

### Explanation:

From the above question, we draw the diagram is given below



Let  $x = \text{Radius of circle}$   $OP = 14 \text{ cm}$ ,  $OD = x = OE$

Now, according to Secant theorem,

$$10 \times 16 = (14-x)(14+x)$$

$$\Rightarrow x^2 = 14^2 - 160$$

$$\Rightarrow x^2 = 36$$

$$\Rightarrow x = 6 \text{ cm}$$

so, Diameter =  $2x = 2 \times 6 = 12 \text{ cm Ans}$

Question 127

If  $\frac{1}{\csc \theta + 1} + \frac{1}{\csc \theta - 1} = 2 \sec \theta$ ,  $0^\circ < \theta < 90^\circ$ , then the value of  $\frac{\tan \theta + 2 \sec \theta}{\csc \theta}$  is:

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

Answer: B

Explanation:

Given that  $\frac{1}{\csc \theta + 1} + \frac{1}{\csc \theta - 1} = 2 \sec \theta$

$\Rightarrow \frac{\csc \theta - 1 + \csc \theta + 1}{\csc^2 \theta - 1} = 2 \sec \theta$

$\Rightarrow \frac{2 \csc \theta}{\cot^2 \theta} = 2 \sec \theta$

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

$\Rightarrow \frac{\sin \theta}{\cos \theta} = 1$

$\Rightarrow \tan \theta = 1$

$\Rightarrow \theta = \frac{\pi}{4}$

then value  $\frac{\tan \theta + 2 \sec \theta}{\csc \theta}$

$\Rightarrow \frac{\tan \frac{\pi}{4} + 2 \sec \frac{\pi}{4}}{\csc \frac{\pi}{4}}$  (put the value  $\theta$ )

$\Rightarrow \frac{1 + 2\sqrt{2}}{\sqrt{2}}$  multiply by  $\sqrt{2}$

$\Rightarrow \frac{4 + \sqrt{2}}{2}$  Ans

Question 128

The marked price of an article is ₹530. After two successive discounts, it is sold for ₹396.44. If the first discount is 15%, and the second discount is x%, then what is the value of x?

- A 10.5
- B 10
- C 12.5
- D 12

Answer: D

Explanation:

Given that market price = Rs 530

After 15% discount =  $530 - 530 \times \frac{15}{100}$

$\Rightarrow$  Rs 405.5

After second discount price = 396.44

so second discount =  $405.5 - 396.44 =$ Rs 54.06

so  $\frac{405.5 \times x}{100} = 54.06$

$\Rightarrow \frac{540}{405.5}$

$\Rightarrow 12\%$  Ans

Question 129

If  $x + y + z = 10$ ,  $xy + yz + zx = 25$  and  $xyz = 100$ , then what is the value of  $(x^3 + y^3 + z^3)$ ?

- A 450
- B 540
- C 550
- D 570

Answer: C

Explanation:

Given that  $x + y + z = 10$ ,  $xy + yz + zx = 25$  and  $xyz = 100$

formula,  $x^3 + y^3 + z^3 - 3xyz = (x + y + z)(x^2 + y^2 + z^2 - xy - yz - zx)$  put the value

$$\Rightarrow x^3 + y^3 + z^3 - 3 \times 100 = 10 [x^2 + y^2 + z^2 - (xy + yz + zx)]$$

$$\Rightarrow x^3 + y^3 + z^3 - 300 = 10 [x^2 + y^2 + z^2 - 25] \text{ ..... equation (1)}$$

Further,

$$x + y + z = 10$$

$$\Rightarrow (x + y + z)^2 = 10^2 \text{ (squaring both side)}$$

$$\Rightarrow x^2 + y^2 + z^2 + 2(xy + yz + zx) = 100$$

$$\Rightarrow x^2 + y^2 + z^2 + 2 \times 25 = 100$$

$$\Rightarrow x^2 + y^2 + z^2 = 100 - 50$$

$$\Rightarrow x^2 + y^2 + z^2 = 50$$

put the value  $x^2 + y^2 + z^2 = 50$  in equation (1)

$$\Rightarrow x^3 + y^3 + z^3 - 300 = 10 [50 - 25]$$

$$\Rightarrow x^3 + y^3 + z^3 = 10 \times 25 + 300$$

$$\Rightarrow x^3 + y^3 + z^3 = 550 \text{ Ans}$$

Question 130

After allowing 10% discount on the marked price of an article, a person makes a profit of 16%. If the cost price of the article is ₹648, then its marked price is:

- A ₹826.80
- B ₹835.20
- C ₹751.68
- D ₹910.40

Answer: B

Explanation:

Let the market price = Rs  $x$

given that discount = 10%

so selling price = Rs  $(x - \frac{10}{100} \text{ of } x)$

$$\Rightarrow \text{Rs } \frac{90x}{100}$$

again given that profit = 16% and cost price = Rs 648

so selling price =  $\text{Rs } (648 + \frac{16}{100} \text{ of } 648)$

$$\Rightarrow Rs \frac{116}{100} \times 648$$

$$\text{By the problem } \frac{116}{100} \times 648 = \frac{90x}{100}$$

$$\Rightarrow x = \frac{116 \times 648}{90}$$

$$\Rightarrow x = Rs 835.2 \text{ Ans}$$

#### Question 131

Total surface area of a right circular cylinder is  $1848 \text{ cm}^2$ . The ratio of its total surface area to the curved surface area is 3:1. The volume of the cylinder is: (Take  $\pi = \frac{22}{7}$ )

A  $3696 \text{ cm}^3$

B  $4312 \text{ cm}^3$

C  $4002 \text{ cm}^3$

D  $4851 \text{ cm}^3$

Answer: B

#### Explanation:

$$\text{We know that curved surface area} = 2\pi r h$$

$$\text{total surface area} = 2\pi r (r+h)$$

$$\text{and volume of the cylinder} = \pi r^2 h$$

according to question given ratio

$$\Rightarrow \frac{2\pi r (r+h)}{2\pi r h} = \frac{3}{1}$$

$$\Rightarrow r+h = 3h$$

$$\Rightarrow 2h = r$$

$$\text{then volume of cylinder} = \pi (2r)^2 h = 4\pi h^3$$

$$\text{given that } 2\pi r (r+h) = 1848$$

$$\Rightarrow 2\pi \times 2h \times (3h) = 1848$$

$$\Rightarrow 12\pi h^2 = 1848$$

$$\Rightarrow \pi h^2 = 154$$

$$\Rightarrow h^2 = \frac{154 \times 7}{22} = 49$$

$$\Rightarrow h = 7$$

$$\text{then } V = 4\pi h^3$$

$$\Rightarrow 4 \times \frac{22}{7} \times 343$$

$$\Rightarrow 4312 \text{ cm}^3 \text{ Ans}$$

## SSC CPO Free Mock Test (Latest Pattern)

#### Question 132

The radius of the base of a solid right circular cone is 8 cm and its height is 15 cm. The total surface area of the cone is:

A  $128\pi$

B  $200\pi$

C  $136\pi$

D  $120\pi$

**Answer: B**

**Explanation:**

Given that Radius  $r = 8$  cm

and height = 15 cm

then lateral height  $(l) = \sqrt{(15)^2 + (8)^2}$

$\Rightarrow \sqrt{225 + 64}$

$\Rightarrow 17$

so surface area of cone =  $\pi r (l + r)$

$\Rightarrow \pi \times 8 (17 + 8)$

$\Rightarrow \pi \times 8 \times 25$

$\Rightarrow 200 \pi$  Ans

**Question 133**

If  $(\cos \theta + \sin \theta) : (\cos \theta - \sin \theta) = (\sqrt{3} + 1) : (\sqrt{3} - 1)$ ,  $0^\circ < \theta < 90^\circ$ , then what is the value of  $\sec \theta$ ?

A 1

B 2

C  $\sqrt{2}$

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

**Answer: D**

**Explanation:**

Given that  $(\cos \theta + \sin \theta) : (\cos \theta - \sin \theta) = (\sqrt{3} + 1) : (\sqrt{3} - 1)$

$\Rightarrow \sqrt{3} \cos \theta - \cos \theta + \sqrt{3} \sin \theta - \sin \theta = \sqrt{3} \cos \theta + \cos \theta - \sqrt{3} \sin \theta - \sin \theta$

$\Rightarrow 2\sqrt{3} \sin \theta = 2 \cos \theta$

$\Rightarrow \tan \theta = \frac{1}{\sqrt{3}}$

$\Rightarrow \theta = \tan^{-1} \frac{1}{\sqrt{3}}$

$\Rightarrow \theta = 30^\circ$

then  $\sec \theta = \sec 30^\circ$

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

**Question 134**

When 2388, 4309 and 8151 are divided by a certain 3-digit number, the remainder in each case is the same. The remainder is:

A 39

B 23

C 19

D 15

**Answer: D**

**Explanation:**

Given that the number 2388, 4309, 8151

then  $4309 - 2388 = 1921 = 17 \times 113$

$8151 - 4309 = 3842 = 2 \times 17 \times 113$

Again  $8151 - 2388 = 5766 = 3 \times 17 \times 113$

HCF =  $17 \times 113$

Thus,  $\frac{2388}{113} = (\text{Reminder} = 15)$

$\frac{4309}{113} = (\text{Reminder} = 15)$

$\frac{8151}{113} = (\text{Reminder} = 15)$

Then our Ans = 15

## SSC CPO Previous Papers

### Question 135

From the top of a house A in a street, the angles of elevation and depression of the top and foot of another house B on the opposite side of the street are  $60^\circ$  and  $45^\circ$ , respectively. If the height of house A is 36 m, then what is the height of house B? (Your answer should be nearest to an Integer.)

A 91 m

B 93 m

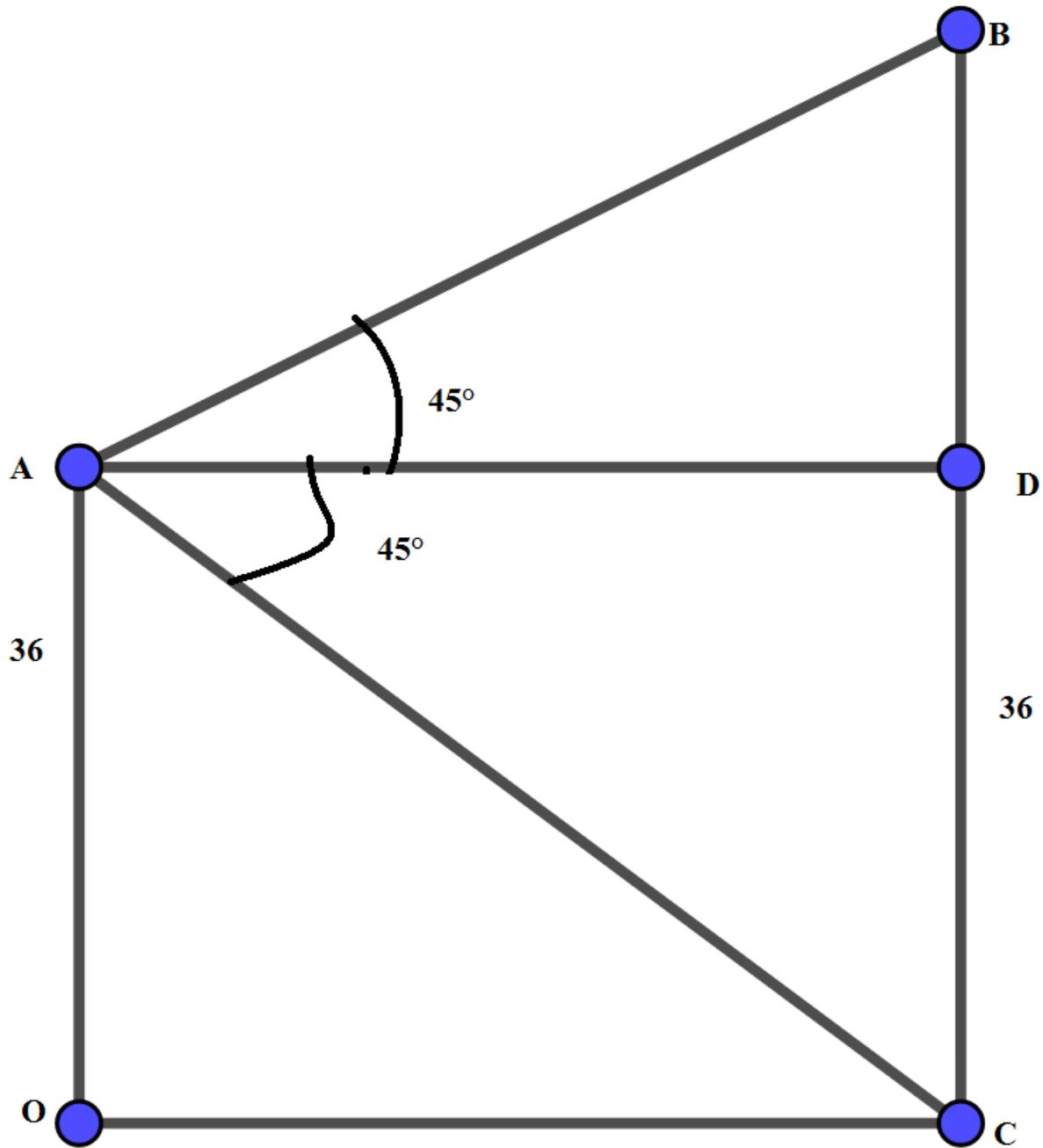
C 94 m

D 98 m

Answer: D

#### Explanation:

From the above question, we draw the diagram is given below



In  $\triangle ADC$

$$\tan 45^\circ = \frac{DC}{AD}$$

$$\Rightarrow 1 = \frac{36}{AD}$$

$$\Rightarrow AD = 36 \text{ m}$$

In  $\triangle ADB$

$$\tan 60^\circ = \frac{BD}{AD}$$

$$\Rightarrow BD = 36 \times \sqrt{3}$$

then Length of Building =  $BD + DC$

$$\Rightarrow 36\sqrt{3} + 36$$

$$\Rightarrow 36(1 + \sqrt{3})$$

$$\Rightarrow 36 \times (1 + 1.73)$$

$$\Rightarrow 36 \times 2.73$$



$\rightarrow 98.28$

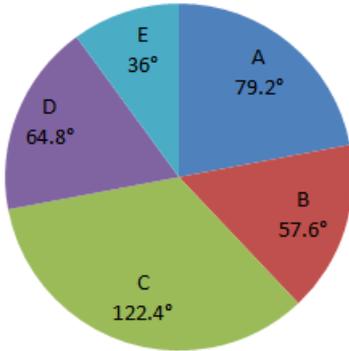
therefore Height of house B = 98 m Ans

### Question 136

Study the pie-chart and answer the question.

Distribution (degree-wise) of the number of employees of a company working in 5 departments A, B, C, D and E.

**Total number of employees = 3200**



The number of employees working in department C is what percentage more than the total number of employees working in D and E? (Your answer should be correct to one decimal place.)

A 23.2

B 20.6

C 22.8

D 21.4

**Answer: D**

**Explanation:**

Total Degree of Department D and E =  $54.8^\circ + 36^\circ$

$\rightarrow 100.8^\circ$

degree of department C =  $122.8^\circ$

The employee of C more than total degree of Department D and E is =  $122.8^\circ - 100.8^\circ = 22^\circ$

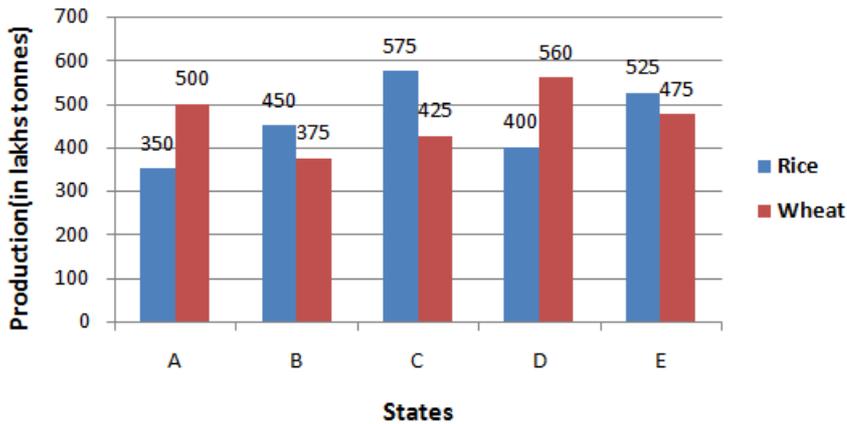
then in a % =  $\frac{22}{100.8} \times 100$

$\rightarrow 21.8$  Ans

Question 137

Study the graph and answer the question.

Production (in lakh tonnes) of rice and wheat in five states of a country in 2018



The number of states in which the production of wheat is more than 20% of the total production of rice in all five states is .....

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

Answer: B

Explanation:

Total production of rice in five states =  $350 + 450 + 575 + 400 + 525 = 2300$

Now 20% of 2300 =  $\frac{20}{100} \times 2300$

$\Rightarrow \frac{1}{5} \times 2300$

$\Rightarrow 460$

We have to find the states in which the production of wheat is more than 460 (in lakh tons)

so states are = state A (500), state D (560) and state E (475)

Total numbers of states = 3 Ans

1500 + Free Must Solved SSC Questions (With Solutions)

Question 138

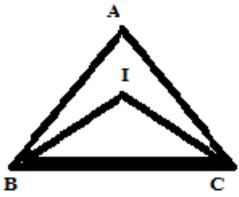
I is the in centre of  $\triangle ABC$ . If  $\angle BIC = 108^\circ$ , then  $\angle A = ?$

- A  $54^\circ$
- B  $72^\circ$
- C  $81^\circ$
- D  $36^\circ$

Answer: D

Explanation:

Given that  $\triangle ABC$  and  $\angle BIC = 108^\circ$  if center point I



In the  $\triangle ABC$

$$\angle BIC = 90^\circ + \frac{\angle A}{2}$$

$$\rightarrow 108^\circ = 90^\circ + \frac{\angle A}{2}$$

$$\rightarrow \frac{\angle A}{2} = 18^\circ$$

$$\rightarrow \angle A = 18^\circ \times 2$$

$$\rightarrow \angle A = 36^\circ \text{ Ans}$$

#### Question 139

The Value of  $\frac{0.325 \times 0.325 + 0.175 \times 0.175 - 25 \times 0.00455}{5 \times 0.0065 \times 3.25 - 7 \times 0.175 \times 0.025}$  lies between

- A 0.25 and 0.35
- B 0.05 and 0.15
- C 0.15 and 0.25
- D 0.35 and 0.45

Answer: A

#### Explanation:

Given that  $\frac{0.325 \times 0.325 + 0.175 \times 0.175 - 25 \times 0.00455}{5 \times 0.0065 \times 3.25 - 7 \times 0.175 \times 0.025}$

$$\rightarrow \frac{(0.325)^2 + (0.175)^2 - 0.11375}{0.10563 - 0.03063}$$

$$\rightarrow \frac{(0.015)^2 + 0.075}{0.075}$$

$$\rightarrow \frac{0.0225}{0.075}$$

$$\rightarrow 0.3$$

then its lies between 0.25 and 0.35

therefore Option (A) 0.25 and 0.35 Ans

#### Question 140

The sides of a triangular park are 60 m, 112 m and 164 m. The cost of levelling the park at the rate of ₹8.50/m<sup>2</sup> is:

- A ₹18,316
- B ₹17,136
- C ₹18,164
- D ₹17,085

Answer: B

#### Explanation:

Let the side of Triangular part be  $a = 60$  m,  $b = 112$  m,  $c = 164$  m

$$\text{then } s = \frac{a+b+c}{2} = \frac{60+112+164}{2}$$

$$\rightarrow s = 168$$

$$\text{Area of Triangle} = \sqrt{s(s-a)(s-b)(s-c)}$$

$$\rightarrow \sqrt{168(168-60)(168-112)(168-164)}$$

$$\rightarrow \sqrt{168(108)(56)(4)}$$

$$\rightarrow \sqrt{2^3 \times 7 \times 3 \times 2^2 \times 3^3 \times 2^3 \times 7 \times 2^2}$$

$$\rightarrow \sqrt{2^{10} \times 7^2 \times 3^4}$$

$$\rightarrow 2^5 \times 7 \times 3^2$$

$$\rightarrow 2016 \text{ m}^2$$

Now the cost of levelling the park =  $2016 \times 8.50$

$$\rightarrow \text{Rs } 17136 \text{ Ans}$$

## SSC CGL Free Mock Test (Latest Pattern)

### Question 141

The value of  $5 \div [5 + 8 - \left\{ 4 + (4 \text{ of } 2 \div 4) - (2 \div 4 \text{ of } 2) \right\}]$  is

A  $\frac{5}{8}$

B  $\frac{5}{7}$

C  $\frac{20}{29}$

D  $\frac{20}{23}$

Answer: C

### Explanation:

$$5 \div [5 + 8 - \left\{ 4 + (4 \text{ of } 2 \div 4) - (2 \div 4 \text{ of } 2) \right\}]$$

$$\rightarrow 5 \div [13 - \left\{ 4 + (4 \times \frac{2}{4}) - (2 \div 4 \times 2) \right\}]$$

$$\rightarrow 5 \div [13 - \left\{ 4 + (2) - (2 \div 8) \right\}]$$

$$\rightarrow 5 \div [13 - \left\{ 6 - (\frac{1}{4}) \right\}]$$

$$\rightarrow 5 \div [13 - \frac{23}{4}]$$

$$\rightarrow 5 \div [\frac{52-23}{4}]$$

$$\rightarrow 5 \div [\frac{29}{4}]$$

$$\rightarrow 5 \times \frac{4}{29}$$

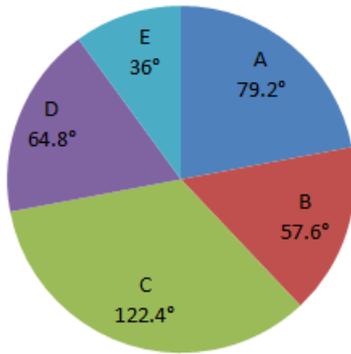
$$\rightarrow \frac{20}{29} \text{ Ans}$$

Question 142

Study the pie-chart and answer the question.

Distribution (degree-wise) of the number of employees of a company working in 5 departments. A, B, C, D and E

Total number of employees = 3200



If the total number of employees working in departments A and B exceeds the number of employees in department C by  $x$ , then  $x$  lies between:

- A 120 and 140
- B 100 and 120
- C 80 and 100
- D 140 and 160

Answer: A

Explanation:

Department A degree =  $79.2^\circ$

B =  $57.6^\circ$

C =  $122.4^\circ$

According to question  $A + B = C + x$

$\Rightarrow 79.2^\circ + 57.6^\circ = 122.4^\circ + x$

$\Rightarrow x = 136.8^\circ - 122.4^\circ$

$\Rightarrow x = 14.4^\circ$

the  $x$  value =  $\frac{14.4}{360} \times 3200$

$\Rightarrow x = 128$

Ans  $x = 128$  lies between 120 and 140

Question 143

The circumference of a circle exceeds its diameter by 60 cm. The area of the circle is: Take ( $\pi = \frac{22}{7}$ )

- A  $536 \text{ cm}^2$
- B  $1078 \text{ cm}^2$
- C  $346.5 \text{ cm}^2$
- D  $616 \text{ cm}^2$

Answer: D

Explanation:

Let radius = r

diameter = 2r

According to question  $2\pi r = 2r + 60$

$\Rightarrow 2\pi r - 2r = 60$

$\Rightarrow 2r(\pi - 1) = 60$

$\Rightarrow 2r \left(\frac{22}{7} - 1\right) = 60$

$\Rightarrow 2r \times \frac{15}{7} = 60$

$\Rightarrow r = \frac{60 \times 7}{30}$

$\Rightarrow r = 14 \text{ cm}$

Area =  $\pi r^2$

$\Rightarrow \frac{22}{7} \times 14 \times 14$

$\Rightarrow 22 \times 28$

$\Rightarrow 616 \text{ cm}^2$  Ans

## SSC CGL Previous Papers (DOWNLOAD PDF)

### Question 144

The value of  $\left(\frac{5}{4} \div \frac{3}{7}\right) \div \left(\frac{1}{2}\right) \div \left(5\frac{1}{9} - 7\frac{7}{8}\right) \div 9\frac{9}{20} \times \frac{11}{21} + (2 \div 2 \text{ of } \frac{1}{2})$  is :

A  $\frac{9}{4}$

B 5

C 3

D  $\frac{7}{2}$

**Answer: B**

### Explanation:

Given that  $\left(\frac{5}{4} \div \frac{3}{7}\right) \div \left(\frac{1}{2}\right) \div \left(5\frac{1}{9} - 7\frac{7}{8}\right) \div 9\frac{9}{20} \times \frac{11}{21} + (2 \div 2 \text{ of } \frac{1}{2})$

According to Bod mass Rule

$\Rightarrow \left(\frac{21}{4} \div \frac{3}{7}\right) \times \frac{1}{2} \div \left(\frac{46}{9} - \frac{63}{8}\right) \div \frac{189}{20} \times \frac{11}{21} + (2 \div 2 \times \frac{1}{2})$

$\Rightarrow \left(\frac{21}{4} \times \frac{14}{3}\right) \div \left(\frac{46}{9} - \frac{63}{8}\right) \times \frac{20}{189} \times \frac{11}{21} + (2 \div 1)$

$\Rightarrow \left(\frac{21}{4} \times \frac{14}{3}\right) \div \left(\frac{46}{9} - \frac{5}{6}\right) \times \frac{11}{21} + 2$

$\Rightarrow \left(\frac{49}{2}\right) \div \left(\frac{92-15}{18}\right) \times \frac{11}{21} + 2$

$\Rightarrow \left(\frac{49}{2}\right) \div \left(\frac{92-15}{18}\right) \times \frac{11}{21} + 2$

$\Rightarrow 3 + 2$

$\Rightarrow 5$  Ans

### Question 145

The angles of elevation of the top of a tower from two points on the ground at distances 32 m and 18 m from its base and in the same straight line with it are complementary. The height(in m) of the tower is .....

A 24

B 20

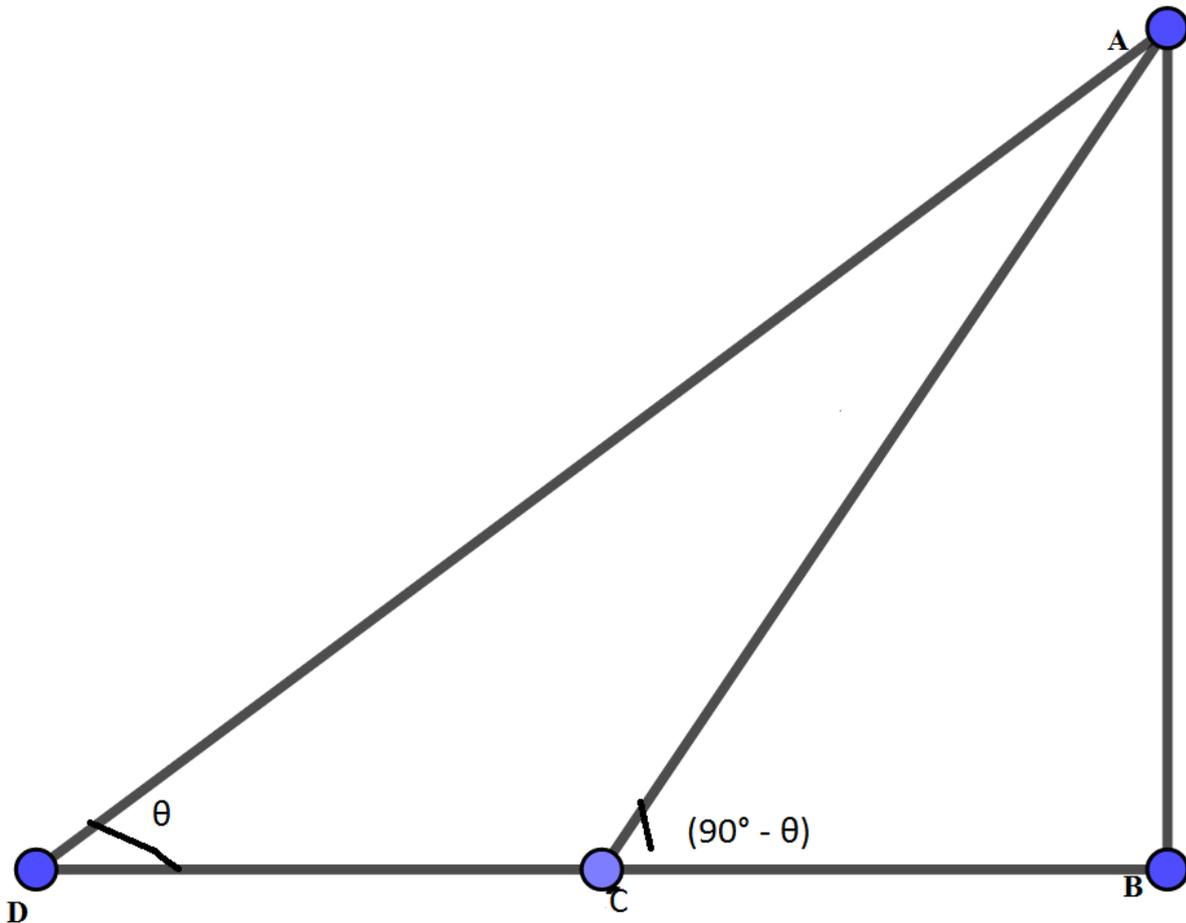
C 28

D 16

Answer: A

Explanation:

Let  $\angle ADB = \theta$



then  $\angle ACD = (90^\circ - \theta)$

In right triangle  $\triangle ABD$

$$\tan \theta = \frac{AB}{BD}$$

$$\tan \theta = \frac{AB}{32} \dots\dots(1)$$

In  $\triangle ABC$

$$\tan(90^\circ - \theta) = \frac{AB}{BC}$$

$$\cot \theta = \frac{AB}{18} \dots\dots(2)$$

Multiplying Equation (1) and Equation (2)

$$\tan \theta \times \frac{1}{\tan \theta} = \frac{AB}{32} \times \frac{AB}{18}$$

$$1 = \frac{(AB)^2}{32 \times 18}$$

$$AB = \sqrt{18 \times 32}$$

$$\Rightarrow AB = 2 \times 2 \times 2 \times 3$$

$$\Rightarrow AB = 24$$

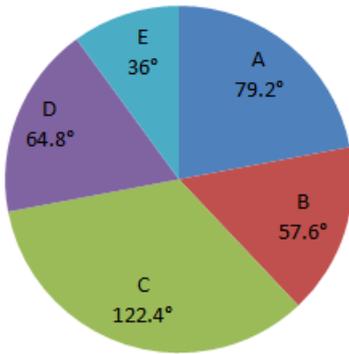
The height of tower = 24 m Ans

Question 146

Study the pie-chart and answer the question.

Distribution(Degree-wise)of the number of the employees of a company working in 5 departments A,B,C,D and E

Total number of employees = 3200



If the ratio of male employees and female employees working in department D is 4 : 5 and that in department E is 9: 11, then what is the ratio of the total male employees in D and E to the number of employees in B?

- A 31:32
- B 25:32
- C 7:8
- D 15:16

Answer: B

Explanation:

Total employee = 3200

so employee in B =  $3200 \times \frac{57.8}{360} = 512$

now, employee in D =  $3200 \times \frac{36}{360} = 576$

employee in E =  $3200 \times \frac{36}{360} = 320$

Now male Employee in D and E =  $576 \times \frac{4}{9} + 320 \times \frac{9}{20}$  ( from ratio method)

$\Rightarrow 256 + 144$

$\Rightarrow 400$

then required ratio = 400: 512

$\Rightarrow 25:32$  Ans

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Question 147

If A's income is 40% of B's income and B's income is 24% more than C's income, then by what percentage is C's income more than A's income? (Your answer should be correct to one decimal place.)

- A 75.6
- B 101.6
- C 104.2
- D 50.4

Answer: B

**Explanation:**

Let C income = 100

B's income is 24% more than C

then B = 124

now A's income is 40% of B income

so A income =  $124 \times \frac{40}{100}$

$\rightarrow 49.6$

so C's income is  $100 - 49.6 = 50.4$  (more than A)

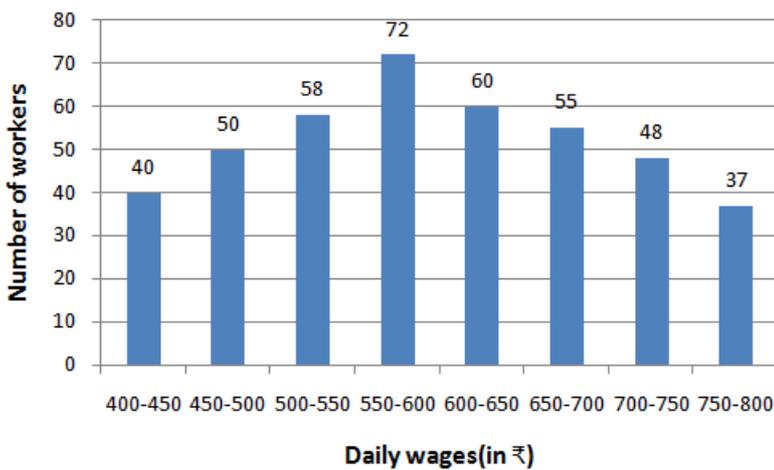
then according to question  $\frac{50.4}{49.6} \times 100$

$\rightarrow 101.6$  Ans

**Question 148**

Study the graph and answer the question.

**Daily wages (in ₹) of workers in a factory**



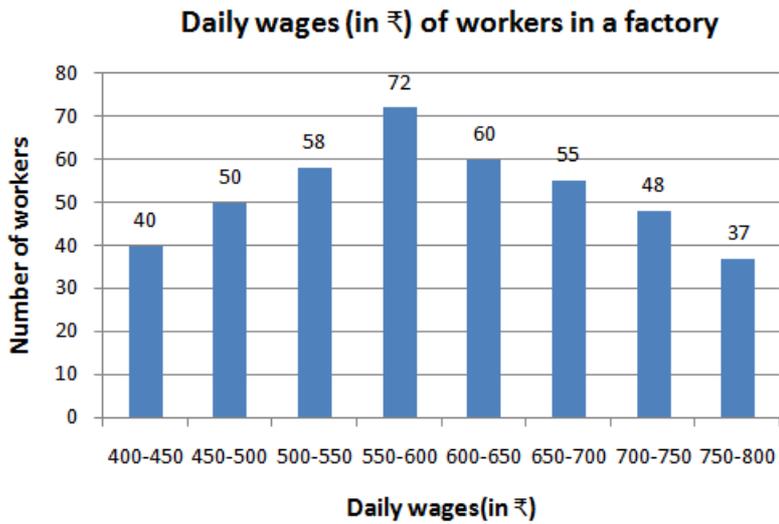
The number of workers in the factory whose daily wages are ₹500 or more but less than ₹650 is what percentage more than the number of workers whose daily wages are ₹650 or more but less than ₹750? (Your answer should be correct to one decimal place.)

- A 84.5
- B 45.8
- C 75.4
- D 76.6

Answer: A

Question 149

Study the graph and answer the question.



The ratio of the number of workers in the factory whose daily wages are below ₹600 to the number of workers whose daily wages are more than ₹650 but less than ₹800 is .....

- A 2:1
- B 11:10
- C 17:14
- D 11:7

Answer: D

**General Science Notes (Download PDF)**

Question 150

A solid metallic sphere of radius 8.4 cm is melted and recast into a right circular cylinder of radius 12 cm. What is the height of the cylinder? (Your answer should be correct to one decimal place.)

- A 7.0 cm
- B 6.0 cm
- C 6.5 cm
- D 5.5 cm

Answer: D

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

**English Comprehension**

**Instructions**

For the following questions answer them individually

Question 151

Identify the segment in the sentence which contains the grammatical error.

My mother speaks in so a low voice that it is difficult to understand what she is saying.

- A that it is difficult to understand
- B what she is saying
- C My mother speaks
- D in so a low voice

Answer: D

SSC Stenographer Previous Papers (Latest Pattern)

Question 152

Select the most appropriate antonym of the given word.

CONTIGUOUS

- A contactual
- B separated
- C neighbouring
- D adjoining

Answer: B

Question 153

Select the most appropriate word to fill in the blank.

Do not Meddle ..... the affairs of others.

- A from
- B in
- C to
- D at

Answer: B

Question 154

Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

This is place where Krishna was born.

- A No substitution required
- B This is the place
- C This is a place
- D This be the place

Answer: B

## SSC CGL Tier-2 Previous Papers PDF

### Instructions

Read the following passage and answer the questions given after it.

India generates at least 25,940 tonnes of plastic waste daily, equivalent to the weight of around 4,300 elephants. Of this, about 60% gets recycled, according to the Union environment ministry. The rest gets dumped in landfills, clogs drains, goes into the ocean as micro-plastics, or is burnt, leading to air pollution.

In the absence of a proper waste management system, the plastics that get recycled are often dirty, which makes the re-cycling process water-intensive and expensive.

"It is the process of cleaning the plastics before recycling that makes it resource intensive. A lot of water is required to wash the collected plastics, especially if it is oily or greasy as it has to be cleaned with a solvent," said Dr Suneel Pandey, director of environment and waste management, The Energy and Resources Institute (TERI).

Experts say proper waste collection and management is at the core of ensuring more plastics get recycled instead of ending up in landfills and oceans.

Researchers from various institutes have come up with innovative ways to utilise the plastic waste that cannot be recycled further or are unrecyclable.

At IIT Delhi, a group of chemical engineers are working on chemically breaking down plastics to its smaller hydrocarbon molecules and then synthesising diesel out of it. The process uses packaging material, Polyethylene terephthalate (PET) bottles, polystyrene, and multi-layer packaging.

The fuel produced can currently be used as a blend in stationary diesel machines like generators and needs further testing and standardisation to be used as commercial diesel in vehicles.

A mix of plastic and stone has been used to create a block that can be used in flooring. A CSIR laboratory also used shredded plastics, chemically treated it and mixed with fillers to make tiles.

A German chemical producer called BASF is also breaking down waste plastic and using it as raw material for chemicals, instead of using material derived from fossil fuels.

One cost-effective solution was developed by Dr Rajagopalan Vasudevan, professor at Thiagarajar College of Engineering in Madurai. The National Highways Authority of India is currently scaling up his technology to use plastic waste in making roads.

He came up with the idea of mixing plastic waste with Bitumen used for constructing roads in 2001. "That year the Tamil Nadu government had planned to ban plastic and my concern began with the more than 1 lakh people employed by the industry. Since plastic is derived from petroleum just like Bitumen, I thought of using it for road construction. The result, not only plastic waste was getting utilised, the roads were cheaper and steadier," he said. The plastic waste does not have to be segregated and even multi-layered plastics can be used in the mix. "All we need to do is collect the waste, dry it out and use it," he said. The construction of every kilometre of road required nine tonnes of Bitumen and one tonne of plastic waste. This means for every kilometre of road, one-tonne Bitumen is saved, which costs about ₹30,000.

### Question 155

What has been developed by Dr Rajagopalan Vasudevan, professor at Thiagarajar College of Engineering in Madurai?

- A method for using plastic for road construction
- B method for using plastic to make tiles and blocks
- C method for extracting raw material for chemicals
- D method for making diesel from plastic waste

Answer: D

### Question 156

Which organization makes blocks and tiles from the plastic waste?

- A IIT, Delhi

- B CSIR
- C TERI
- D BASF

Answer: B

**Question 157**

What has been developed by Dr Rajagopalan Vasudevan, professor at Thiagarajar College of Engineering in Madurai?

- A method for using plastic for road construction
- B method for using plastic to make tiles and blocks
- C method for extracting raw material for chemicals
- D method for making diesel from plastic waste

Answer: A

## SSC Exam Free Videos (Youtube)

**Question 158**

The above passage mainly talks about

- A the problems of recycling plastic waste.
- B putting the plastic waste to use by recycling.
- C the need of research to manage plastic waste.
- D the plastic waste generated in India.

Answer: B

**Question 159**

What makes the recycling of plastic resource-intensive?

- A the collection of plastic waste
- B the breaking down of plastic in molecules
- C the cleaning of the plastic waste
- D the research required for recycling

Answer: C

**Instructions**

For the following questions answer them individually

**Question 160**

Select the most appropriate word which means the same as the group of words given

**A word formed from the initial letters of other words**

- A homonym

- B pseudonym
- C acronym
- D toponym

Answer: C

## SSC Study Material

Question 161

Select the wrongly spelt word.

- A effigy
- B effect
- C effort
- D effecient

Answer: D

Question 162

Select the most appropriate synonym of the given word.

CONDEMN

- A commend
- B denounce
- C compliment
- D approve

Answer: B

Question 163

Select the wrongly spelt word.

- A capritious
- B fictitious
- C nutritious
- D Ambitious

Answer: A

## SSC Daily Practice Set

Question 164

Identify the segment in the sentence which contains the grammatical error. If there is no error, then select option 'No error'.  
The prices of tomatoes has soared up to Rs. 65-70 per kg in many parts of the country.

- A in many parts of the country

- B soared up
- C The prices of tomatoes has
- D No error

Answer: C

**Question 165**

Select the most appropriate word to fill in the blank.

\_\_\_\_\_ the train was late by six hours, it made up three hours before reaching its destination.

- A Because
- B In case
- C In spite of
- D Although

Answer: D

**Question 166**

Identify the segment in the sentence which contains the grammatical error. If there is no error, then select option 'No error'.

The J&K Administration has withdrew the advisory asking tourists to cut short their visit to Kashmir.

- A their visit to Kashmir.
- B asking tourists to cut short
- C has withdrew the advisory
- D No error

Answer: C

## SSC GK Free Tests

**Question 167**

Select the most appropriate synonym of the given word.

**ENGULF**

- A uncover
- B dry
- C inundate
- D neglect

Answer: C

**Question 168**

Select the most appropriate meaning of the given idiom.

**Up in arms**

- A to be nervous

- B to be rude
- C to be angry
- D to be defensive

**Answer: C**

**Question 169**

Select the most appropriate meaning of the given Idiom.

**Left out in cold**

- A to stand out
- B to be criticised
- C to be ignored
- D to be indecisive

**Answer: C**

## Current Affairs Question and Answers (Download PDF)

**Question 170**

Select the most appropriate word which means the same as the group of words given.

**A government run by a king or a queen**

- A plutocracy
- B aristocracy
- C monarchy
- D oligarchy

**Answer: C**

**Question 171**

Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

No sooner did it begin to rain that all the guests ran inside.

- A No substitution required
- B so that all the guests
- C than all the guests
- D when all the guests

**Answer: C**

**Question 172**

Select the most appropriate synonym of the given word.

**OFFEND**

- A annoy

- B assuage
- C aid
- D assist

Answer: A

## Daily and Monthly Current Affairs (Download PDF)

### Question 173

Select the most appropriate antonym of the given word.  
Subscribe

- A ease
- B deny
- C diminish
- D abate

Answer: B

### Question 174

Select the most appropriate meaning of the given idiom.  
Handle with kid gloves

- A to treat someone with extreme care
- B to accomplish something too ambitious
- C to show someone your creativity
- D to remove all hurdles to start something

Answer: A

### Question 175

Select the most appropriate word which means the same as the group of words given.  
One who is easily deceived

- A delible
- B gullible
- C incorrigible
- D infallible

Answer: B

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### Question 176

Select the most appropriate word which means the same as the group of words given.  
One who holds a post without any salary

- A highbrow
- B volunteer
- C samaritan
- D honorary

Answer: D

**Question 177**

Select the most appropriate synonym of the given word.

**PARSIMONY**

- A generosity
- B frugality
- C readiness
- D bounty

Answer: B

**Question 178**

Select the most appropriate meaning of the given idiom

**Run around in circles**

- A to keep running to set a record
- B to keep doing something without achieving much
- C to work excessively hard by keeping two jobs
- D to remain busy with your work

Answer: B

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**Question 179**

Select the most appropriate word to fill in the blank.

Please don't disturb me. I \_\_\_\_\_ to solve a sum.

- A am trying
- B try
- C have tried
- D tried

Answer: A

**Question 180**

Select the most appropriate word which means the same as the group of words given.

That cannot be approached easily

- A inevitable
- B invincible
- C inaccessible
- D inaudible

Answer: C

**Question 181**

Identify the segment in the sentence which contains the grammatical error.  
Note down my phone number in case you needs to ring me up.

- A in case you needs
- B my phone number
- C to ring me up
- D Note down

Answer: A

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

**Question 182**

Select the wrongly spelt word.

- A desert
- B descent
- C describe
- D discern

Answer: D

**Question 183**

Identify the segment in the sentence which contains the grammatical error.  
The Government is setting up a special surveillance cell for epidemic-prone diseases at flood-ravaged Bihar.

- A The Government is setting up
- B a special surveillance cell
- C for epidemic-prone diseases
- D at flood-ravaged Bihar

Answer: D

**Question 184**

Select the most appropriate meaning of the given idiom  
Work against the clock

- A work against all problems
- B work late in the night
- C work with concentration
- D work in great hurry

Answer: D

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Question 185

Select the wrongly spelt word.

- A behold
- B benethe
- C bench
- D begin

Answer: B

Question 186

Select the most appropriate word/s to fill in the blank.

Only \_\_\_\_\_ girls were present in the class today.

- A a few
- B several of
- C many
- D a lot of

Answer: A

Question 187

Select the most appropriate word to fill in the blank.

You must apologize \_\_\_\_\_ the punishment.

- A to escape
- B escaping
- C escape
- D escapes

Answer: A

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**Question 188**

Select the most appropriate antonym of the given word.

- A begin
- B finish
- C trigger
- D commence

**Answer: B**

**Question 189**

Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

Tomatoes sown around July in the southern states are harvested in October.

- A Tomatoes sow around July
- B Tomatoes sowing around July
- C Tomatoes sown under July
- D No substitution required

**Answer: D**

**Instructions**

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

**Comprehension:**

After coffee had been served in different-sized cups and mugs, the chief rose (1)\_\_\_\_\_ his place at the head of the table (2)\_\_\_\_\_ a speech of welcome, (3)\_\_\_\_\_ Aziz translated. Scott made a short (4)\_\_\_\_\_, which was applauded even before Aziz had been given the (5)\_\_\_\_\_ to interpret what he had said.

**Question 190**

Select the most appropriate option to fill in blank No.1.

- A in to
- B on
- C from
- D to

**Answer: C**

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

**Question 191**

Select the most appropriate option to fill in blank No.2

- A make

B to make

C makes

D made

**Answer: B**

**Question 192**

Select the most appropriate option to fill in blank No.3

A whom

B who

C which

D what

**Answer: C**

**Question 193**

Select the most appropriate option to fill in blank No.4.

A rejoin

B reply

C respond

D retort

**Answer: B**

## SSC CPO Previous Papers

**Question 194**

Select the most appropriate option to fill in blank No.5

A probability

B moment

C chance

D turning

**Answer: C**

**Instructions**

For the following questions answer them individually

**Question 195**

Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

I made them cleaning the room thoroughly.

A I made them clean

- B No Substitution required
- C I make them cleansing
- D I make them Clean

**Answer: A**

**Question 196**

Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

When the PMC Bank failed many people's lives were ruining.

- A No substitution required
- B were ruined
- C was ruined
- D has ruined

**Answer: B**

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**Question 197**

Select the most appropriate antonym of the given word.

**STABLE**

- A even
- B shaky
- C reliable tough
- D tough

**Answer: B**

**Question 198**

Select the most appropriate synonym of the given word.

**APPARENT**

- A obvious
- B doubtful
- C dubious
- D obscure

**Answer: A**

**Question 199**

Select the wrongly spelt word.

- A dive

- B devine
  - C divide
  - D deviate
- Answer: B

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Question 200

Select the most appropriate antonym of the given word.  
CONSUME

- A save
- B absorb
- C devour
- D exhaust

Answer: A

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