



## SSC CHSL 26 March 2018 Evening Shift

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# General Awareness

## Instructions

For the following questions answer them individually

### Question 1

Which of the following is NOT included in general methodology while assessing the national income?

- A Pension
- B Investment Expenditure
- C Value added
- D Consumption Expenditure

Answer: A

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### Question 2

In India, the Black Revolution is associated with self dependence in the production of \_\_\_\_\_.

- A oil seeds production
- B crude petroleum
- C black box
- D No option is correct.

Answer: B

### Question 3

Hiuen Tsang visited Kanchipuram, the capital of Pallavas, during the reign which of the following rulers?

- A Mahendra Varman I
- B Mahendra Varman II
- C Narasimha Varman I
- D Parmeshwar Varman II

Answer: A

### Question 4

E.P. Ramaswamy Naicker is associated with which of the following movements?

- A Self-respect movement
- B Viacom movement
- C Justice movement
- D Ezhava movement

Answer: A

## SSC CHSL Free Mock Test

### Question 5

World famous Kaieteur Falls is situated on which river?

- A Potaro
- B Mississippi
- C St. Lawrence
- D Zambezi

Answer: A

### Question 6

Which of the following is NOT correctly matched?

- A Shivasamudram Falls - Kaveri
- B Dhuandhar Falls - Narmada
- C Sahastra dhara Falls - Baldy
- D Gerosoppa Falls - Kaveri

Answer: D

### Question 7

In which year did Vivekananda participate in the Parliament of the World's Religions?

- A 1893 AD
- B 1895 AD
- C 1897 AD
- D 1899 AD

Answer: A

## SSC CHSL Previous Papers (DOWNLOAD PDF)

### Question 8

What was the theme of the Global Entrepreneurship Summit, 2017 organised in Hyderabad?

- A Development for All
- B Women First, Prosperity for All
- C Run for Development
- D Women's World

Answer: B

**Question 9**

Which of the following films won the best film award in the 48<sup>th</sup> International Film Festival of India (IFFI), organized from November 20 to 28, 2017 in Panji, Goa?

- A 120 Beats Per Minute
- B Take Off
- C Angels Wear White
- D Dark Skull

**Answer: A**

**Question 10**

How much area of Bhutan is approximately covered with forest?

- A 45%
- B 61%
- C 72%
- D 84%

**Answer: C**

## SSC CGL Previous Papers (DOWNLOAD PDF)

**Question 11**

The atoms of the elements having same difference between mass number and atomic number are called \_\_\_\_\_.

- A Isobar
- B Isotopes
- C Isotones
- D No option is correct.

**Answer: C**

**Question 12**

Heavy water is mostly used in which of the following?

- A In fire extinguisher
- B In nuclear reactors
- C In washing cloth
- D In both Nuclear reactors and Fire extinguisher

**Answer: B**

**Question 13**

\_\_\_\_\_ prevents the Panchayat from doing wrong things like misusing money or favouring certain people.

- A Gram Sabha
- B District Collector
- C Sarpanch
- D Secretary

Answer: A

## SSC CGL Free Mock Test (Latest Pattern)

### Question 14

\_\_\_\_\_ is a particular area from which all the voters living there choose their representatives.

- A Constituency
- B Voting Area
- C Election Area
- D Legislative Area

Answer: A

### Question 15

Match the following

Organism	Reproduction Process
I. Leishmania	1. Bud formation
II. Yeast	2. Fragmentation
III. Spirogyra	3. Binary fission

- A I - 2, II - 3, III - 1
- B I - 1, II - 3, III - 2
- C I - 3, II - 1, III - 2
- D I - 3, II - 2, III - 1

Answer: C

### Explanation:

Fragmentation is a common method of multiplication in Spirogyra, budding in yeast, and binary fission in Leishmania.

Thus, correct order is = I - 3, II - 1, III - 2

=> Ans - (C)

### Question 16

What is the shape of the two guard cells which enclose stomata?

- A Oval
- B Triangular
- C Rectangular

D Kidney shaped

Answer: D

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

### Question 17

Under the 'National Electric Mobility Mission Plan', the government wants to see 6-7 million electric and hybrid vehicles on Indian roads from year \_\_\_\_\_ on wards.

A 2022

B 2020

C 2025

D 2019

Answer: B

### Question 18

Which research laboratory has developed an Artificial Intelligent robot named Shelley that writes horror stories?

A IBM - Media research lab

B MIT - Media Lab

C Almaden's Visual Media

D Wal-mart Media Lab

Answer: B

### Question 19

On 9 November 2017, House Building Advance (HBA) rules were revised. Now, under the new rules, the central government employee can borrow a maximum of how much amount from government?

A Rs 50 lakh

B Rs 25 lakh

C Rs 75 lakh

D Rs 15 lakh

Answer: B

## SSC CHSL Study Material

### Question 20

The Government of India has approved year 2018 as National year of which nutrient rich crop to boost its production?

A Millet

B Wheat

C Rice

D Maize

Answer: A

Question 21

Find the acceleration ( $\text{in } \frac{\text{m}}{\text{s}^2}$ ) of a body which accelerates from 10 m/s to 20 m/s in 4 seconds.

A 7.5

B 5

C 15

D 2.5

Answer: D

Question 22

Propagation of sound can be visualised as propagation of \_\_\_\_\_ variations in the medium.

A energy

B power

C force

D pressure

Answer: D

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Question 23

During the night, the direction of the wind would be from the \_\_\_\_\_.

A valleys to the mountains

B mountains to the valleys

C land to the sea

D sea to the land

Answer: C

Question 24

Which of the statements given below are correct?

A) Julio Granda won the Chess 2017 Women's World Chess Championship.

B) Australia hosted the Tennis 2017 Hopman Cup.

C) Max Verstappen won the Formula One 2017 Malaysian Grand Prix.

A Only A

B Only C

C Both B and C

D A, B and C

Answer: C

**Question 25**

In HTML, \_\_\_\_\_ attribute specifies a set of controls that are linked so that only one radio button among each set is selected at a time.

- A TYPE="TEXT"
- B TYPE="PASSWORD"
- C TYPE="RADIO"
- D TYPE="CHECKBOX"

Answer: C

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### English

**Instructions**

In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'.

**Question 26**

Evolutionary processes give rise to biodiversity in every (1) level of biological organisation, including the level of (2) species, individual organisms, and molecules.(3) No error (4)

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

Answer: D

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**Question 27**

Population decline, counter-urbanisation, invasion, and (1) movement of people, which had begun in Late (2)Antiquity, continued in the Early Middle Ages. (3) No error (4)

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

Answer: D

**Instructions**

In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.



**Question 28**

The architect was unable to \_\_\_\_\_ those designs.

- A made
- B sketch
- C scatter
- D built

**Answer: B**

**Question 29**

Life is short but it has a \_\_\_\_\_ meaning.

- A rare
- B sharp
- C deep
- D blur

**Answer: C**

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**Instructions**

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

**Question 30**

**Pert**

- A Humble
- B Lively
- C Meek
- D Timid

**Answer: B**

**Question 31**

**Copious**

- A Counterfeit
- B Plentiful
- C Commendable
- D Deficient

**Answer: B**

**Question 32**

**Egregious**

- A Noticeable
- B Gross
- C Mild
- D Obvious

**Answer: C**

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**Question 33**

**Rectitude**

- A Goodness
- B Infamy
- C Honesty
- D Character

**Answer: C**

**Instructions**

For the following questions answer them individually

**Question 34**

**Rearrange the parts of the sentence in correct order.**

**The elusive**

**P : status in the Red List of the International**

**Q : snow leopard has lost its endangered**

**R : Union for Conservation of Nature**

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

**Answer: A**

**Question 35**

**A sentence has been given in Active/Passive Voice. Out of the four given alternatives, select the one which best expresses the same sentence in Passive/Active Voice.**

**He gave her promotion happily.**

- A She was given promotion happily by him.
- B She had been given promotion by him happily.

C Her promotion was given happily by him.

D Her promotion was given.

Answer: A

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### Question 36

A sentence has been given in Direct/Indirect Speech. Out of the four given alternatives, select the one which best expresses the same sentence in Indirect/Direct Speech.

Anuj said, "I need your help now."

A Anju needed my help then.

B Anuj said that he needed my help then.

C Anuj said he needed my help now.

D Anuj says he needed my help now.

Answer: B

### Question 37

In the following question, a word has been written in four different ways out of which only one is correctly spelt. Select the correctly spelt word.

A Hygiene

B Hygine

C Higine

D Hygeine

Answer: A

### Instructions

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

The reason is a fear that we will not \_\_\_\_\_ find ourselves in that higher echelon of posts and achievements that get so many likes and reports, a sign of success and \_\_\_\_\_ in our binary outlook. A darker worry also exists at the back \_\_\_\_\_ our mind. What if we end \_\_\_\_\_ in the other group, an object of ridicule, derided as another in a long list of failures \_\_\_\_\_ embarrassments that go viral for all the wrong reasons?

### Question 38

we will not \_\_\_\_\_ find ourselves in that

A automatically

B automatic

C automatical

D automation

Answer: A

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Question 39

a sign of success and \_\_\_\_\_ in our binary outlook.

- A appreciate
- B appreciative
- C appreciation
- D appreciatively

Answer: C

Question 40

at the back \_\_\_\_\_ our mind.

- A for
- B from
- C off
- D of

Answer: D

Question 41

What if we end \_\_\_\_\_ in the other group

- A upon
- B on
- C up
- D above

Answer: C

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Question 42

list of failures \_\_\_\_\_ embarrassments that go viral

- A but
- B nor
- C also
- D and

Answer: D

**Instructions**

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

**Question 43**

**Stab someone in the back**

- A Praise someone.
- B Like someone secretly.
- C Betray someone.
- D Meet someone after a long time.

**Answer: C**

**Question 44**

**Over my dead body**

- A Used to emphasize that one completely opposes something.
- B Be dead sure of something.
- C Feel afraid of something or someone.
- D Feel unhealthy and very weak.

**Answer: A**

## SSC CHSL Free Mock Test

**Instructions**

In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.

**Question 45**

**Farmland ploughed and harrowed but left for a period without being sown in order to restore its fertility**

- A Fallow
- B Urbane
- C Sophisticated
- D Genteel

**Answer: A**

**Question 46**

**Showing or feeling no interest, enthusiasm, or concern**

- A Ardent
- B Fervent
- C Apathetic
- D Melancholic

Answer: C

**Instructions**

In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select "no improvement".

**Question 47**

Over the last few weeks I (has been) on a whirlwind series of travel for work and vacation.

- A have been
- B was been
- C have being
- D no improvement

Answer: A

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**Question 48**

I closed the window just in time and (return) to my room with relief.

- A returns
- B returned
- C will return
- D no improvement

Answer: B

**Instructions**

For the following questions answer them individually

**Question 49**

The question below consists of a set of labelled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph.

In order to

- A-regulate the technology and boost
- B-the rankings, we need our
- C-teachers to do exponential thinking

- A CBA
- B CAB
- C BCA
- D ABC

Answer: D

**Question 50**

In the following question, four words are given out of which one word is correctly spelt. Select the correctly spelt word.

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

Answer: C

## SSC CGL Previous Papers (DOWNLOAD PDF)

### Reasoning

#### Instructions

For the following questions answer them individually

#### Question 51

In the following question, select the related word pair from the given alternatives.

Ohm : Resistance :: ? : ?

- A Temperature : Degree
- B Hectare : Area
- C Energy : Watt
- D Current : Ampere

Answer: B

#### Explanation:

Expression = Ohm : Resistance :: ? : ?

The first is the S.I. unit of the second, i.e. Ohm is the S.I. unit to measure resistance, similarly hectare is the unit of Area.

=> Ans - (B)

## SSC CGL Free Mock Test (Latest Pattern)

#### Question 52

In the following question, select the related number from the given alternatives.

16 : 23 :: 22 : ?

- A 34
- B 29
- C 23
- D 31

Answer: B

#### Explanation:

Expression = 16 : 23 :: 22 : ?

The numbers are of the form =  $n : n + 7$

Eg :-  $16 + 7 = 23$

Similarly,  $22 + 7 = 29$

=> Ans - (B)

**Question 53**

In the following question, select the related letter/letters from the given alternatives.

GOI : RZT :: FMD : ?

A PWN

B QXP

C PWO

D QXO

**Answer: D**

**Explanation:**

Expression = GOI : RZT :: FMD : ?

The pattern followed is :

G	O	I
(+11)	(+11)	(+11)
R	Z	T

Similarly, for FMD : **QXO**

F	M	D
(+11)	(+11)	(+11)
Q	X	O

=> Ans - (D)

**Question 54**

In the following question, select the odd word pair from the given alternatives.

A Figure - Rectangle

B Ornament - Ring

C Vehicle - Scooter

D Necklace - Ornament

**Answer: D**

**Explanation:**

Second is one of the types of first, rectangle is a figure, ring is an ornament, scooter comes under types of vehicle, hence **Necklace - Ornament** is the odd one out, since its order is reversed.

=> Ans - (D)

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

**Question 55**

In the following question, four number pairs are given. The number on left side of (-) is related to the number on the right side of (-) with some Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.



A 17 - 34

B 37 - 74

C 43 - 86

D 29 - 59

**Answer: D**

**Explanation:**

The second number is double of the first number.

$$17 \times 2 = 34$$

$$37 \times 2 = 74$$

$$43 \times 2 = 86$$

$$29 \times 2 = 58 \neq 59$$

=> Ans - (D)

**Question 56**

In the following question, select the odd letter/letters from the given alternatives.

A SKC

B ZRJ

C ZSK

D VNF

**Answer: C**

**Explanation:**

(A) : S (-8 letters) = K (-8 letters) = C

(B) : Z (-8 letters) = R (-8 letters) = J

(C) : Z (-7 letters) = S (-8 letters) = K

(D) : V (-8 letters) = N (-8 letters) = F

=> Ans - (C)

**Question 57**

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

1. Pinnacle
2. Pigment
3. Pierce
4. Phony
5. Pick

A 52431

B 45321

C 12453

D 23514

**Answer: B**

**Explanation:**

As per the order of dictionary :

= Phony -> Pick -> Pierce -> Pigment -> Pinnacle

≡ 45321

=> Ans - (B)

## SSC CHSL Study Material

**Question 58**

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

13, 19, 32, 51, 83, ?

A 142

B 134

C 156

D 140

**Answer: B**

**Explanation:**

The given series is a type of Fibonacci series where the previous two numbers are added to get the next one.

$$13 + 19 = 32$$

$$19 + 32 = 51$$

$$32 + 51 = 83$$

$$51 + 83 = 134$$

=> Ans - (B)

**Question 59**

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

CLG, GPK, KTO, OXS, ?

A TBW

B SZW

C SWA

D SBW

**Answer: D**

**Explanation:**

Series : CLG, GPK, KTO, OXS, ?

The pattern followed in each letter of the terms is :

1st letter : C (+4 letters) = G (+4 letters) = K (+4 letters) = O (+4 letters) = S

2nd letter : L (+4 letters) = P (+4 letters) = T (+4 letters) = X (+4 letters) = B

3rd letter : G (+4 letters) = K (+4 letters) = O (+4 letters) = S (+4 letters) = W

Thus, missing term = **SBW**

=> Ans - (D)

Question 60

Suraj is shorter than Gopal but taller than Tarun. Rajan is the tallest and Shivam is shorter than Suraj but not the shortest. Who is the third shortest?

- A Gopal
- B Suraj
- C Rajan
- D Shivam

Answer: B

Explanation:

Suraj is shorter than Gopal but taller than Tarun, => Gopal > Suraj > Tarun

Shivam is shorter than Suraj but not the shortest, => Gopal > Suraj > Shivam > Tarun

Also, Rajan is the tallest. Thus the heights in decreasing order is :

**Rajan > Gopal > Suraj > Shivam > Tarun**

∴ Suraj is the third shortest.

=> Ans - (B)

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Question 61

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

Endeavors

- A Vote
- B Rose
- C End
- D Done

Answer: A

Explanation:

The word ENDEAVORS does not contain any 'T', thus the term **Vote** cannot be formed.

=> Ans - (A)

Question 62

In a certain code language, "LINKS" is written as "93210" and "CROMA" is written as "84576". How is "ROCKS" written in that code language?

- A 81054
- B 83106
- C 45810
- D 10486

Answer: C

Explanation:

Codes for each letter is given :

R -> 4  
O -> 5  
C -> 8  
K -> 1  
S -> 0

Thus, ROCKS : 45810

=> Ans - (C)

### Question 63

In a certain code language, '-' represents '+', '+' represents 'x', 'x' represents '÷' and '÷' represents '-'. Find out the answer to the following question.

$$7 - 8 + 20 \times 10 \div 9 = ?$$

- A 18
- B 20
- C 22
- D 14

Answer: D

#### Explanation:

$$\text{Expression : } 7 - 8 + 20 \times 10 \div 9 = ?$$

$$\equiv 7 + 8 \times 20 \div 10 - 9$$

$$= 7 + (8 \times 2) - 9$$

$$= 16 - 2 = 14$$

=> Ans - (D)

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### Question 64

The following equation is incorrect. Which two signs should be interchanged to correct the equation?

$$16 \times 4 - 10 + 2 \div 12 = 18$$

- A x and ÷
- B ÷ and -
- C - and +
- D - and x

Answer: A

#### Explanation:

$$\text{Expression : } 16 \times 4 - 10 + 2 \div 12 = 18$$

(A) : x and ÷

$$\equiv 16 \div 4 - 10 + 2 \times 12 = 18$$

$$\text{L.H.S.} = \left(\frac{16}{4}\right) - 10 + (2 \times 12)$$

$$= 4 - 10 + 24 = 18 = \text{R.H.S.}$$

=> Ans - (A)

**Question 65**

If  $4!4 = 80$ ,  $3!8 = 110$  and  $6!2 = 80$ , then find the value of  $7!9 = ?$

- A 70
- B 100
- C 60
- D 160

**Answer:** D

**Explanation:**

Given :  $4!4 = 80$ ,  $3!8 = 110$  and  $6!2 = 80$

If we replace '!' with '+', and multiply the sum by 10, we get the desired result.

Eg :-  $(4 + 4) \times 10 = 80$

and  $(3 + 8) \times 10 = 110$  and  $(6 + 2) \times 10 = 80$

Similarly,  $(7 + 9) \times 10 = 160$

=> Ans - (D)

**Question 66**

Which of the following terms follows the trend of the given list?

ABABCDAB, ABADCBAB, ABCDABAB, ADCBABAB, CDABABAB, \_\_\_\_\_.

- A ABABADCB
- B ABABCDAB
- C ABADCBAB
- D CBABABAD

**Answer:** D

**Explanation:**

Expression : ABABCDAB, ABADCBAB, ABCDABAB, ADCBABAB, CDABABAB, \_\_\_\_\_.

The above series is a combination of 4 'AB', but in each alternative term starting from the 5th position, 1 set of AB is replaced by CD and in the even number of terms, 1 set of BA is replaced by DC shifting one place to the left.

Thus, in the missing term (6th term), 4th B is replaced by D and first term C = **CBABABAD**

=> Ans - (D)

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**Question 67**

The fitness club has organised a race. The route goes 4.5 km West from the starting point. It then turns North and goes 3 kms, then turns East and goes 4.5 km, finally it turns left and goes 1.5 km to reach the end point. Where is the end point with respect to the start point?

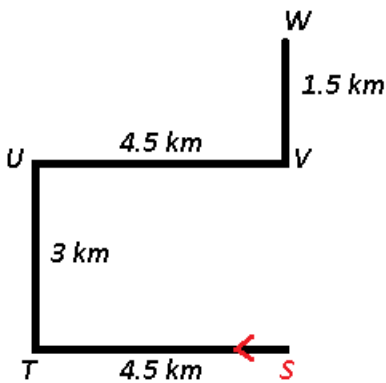
- A 4.5 km North
- B 1.5 km South
- C 4.5 km South

D 1.5 km North

Answer: A

Explanation:

The route goes 4.5 km West from the starting point S. It then turns North and goes 3 kms to U, then turns East and goes 4.5 km, finally it turns left and goes 1.5 km towards north to reach the end point W.



$$\Rightarrow SW = 3 + 1.5 = 4.5 \text{ km}$$

$\therefore$  The end point is **4.5 km north** with respect to the start point.

$\Rightarrow$  Ans - (A)

Question 68

In the question two statements are given, followed by two conclusions, I and II. You have to consider the statements to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.

Statement I: Some ribbons are tapes

Statement II: Some strips are ribbons

Conclusion I: All tapes are strips

Conclusion II: No strips are tapes

A Only conclusion I follows

B Only conclusion II follows

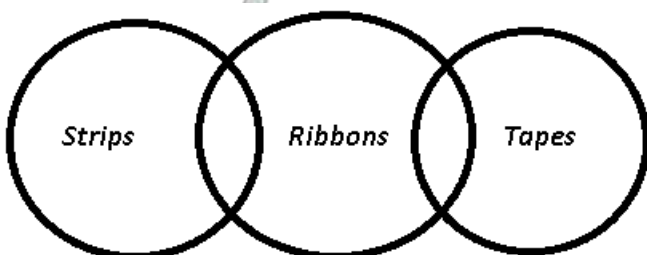
C Both conclusions I and II follow

D Neither conclusion I nor conclusion II follows

Answer: D

Explanation:

The venn diagram for above statements is :



Conclusion I: All tapes are strips = false

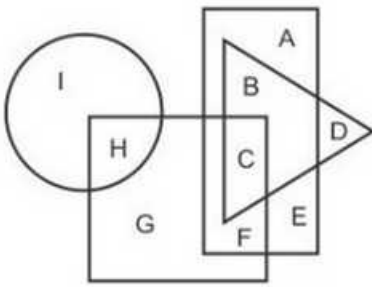
Conclusion II: No strips are tapes = may or may not be true

Thus, neither conclusion I nor conclusion II follows.

=> Ans - (D)

**Question 69**

In the following figure, rectangle represents Hairstylists, circle represents Choreographers, triangle represents Mountain climbers and square represents Gymnasts. Which set of letters represents Gymnasts who are both Hairstylists as well as Mountain climbers?



A CF

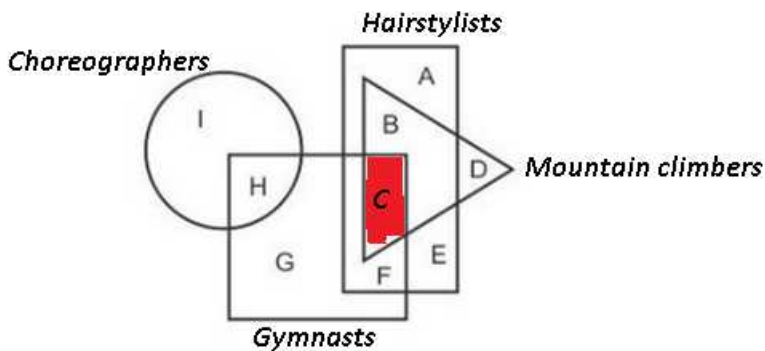
B GF

C C

D BC

Answer: C

Explanation:



Gymnasts who are both Hairstylists as well as Mountain climbers are represented by = C

=> Ans - (C)

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**Question 70**

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.  
AHR, HOY, OVF, VCM, ?

A CJT

B BKU

C ALV

D ZGQ

Answer: A

Explanation:

Series : AHR, HOY, OVF, VCM, ?

The pattern followed in each letter of the terms is :

1st letter : A (+7 letters) = H (+7 letters) = O (+7 letters) = V (+7 letters) = C

2nd letter : H (+7 letters) = O (+7 letters) = V (+7 letters) = C (+7 letters) = J

3rd letter : R (+7 letters) = Y (+7 letters) = F (+7 letters) = M (+7 letters) = T

Thus, missing term = **CJT**

=> Ans - (A)

#### Question 71

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

6, 13, 20, 27, ?

A 34

B 32

C 37

D 43

Answer: A

**Explanation:**

'7' is added to all the numbers.

$$6 + 7 = 13$$

$$13 + 7 = 20$$

$$20 + 7 = 27$$

$$27 + 7 = \mathbf{34}$$

=> Ans - (A)

#### Question 72

In the following question, four groups of three numbers are given. In each group the second and third number are related to the first number by a Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

A (7, 36, 21)

B (9, 46, 27)

C (11, 56, 33)

D (22, 106, 63)

Answer: D

**Explanation:**

The numbers are of the form :  $(x, 5x + 1, 3x)$

But in the last option, we have =  $3 \times 22 = 66 \neq 63$

Thus, (22, 106, 63) is the odd one out.

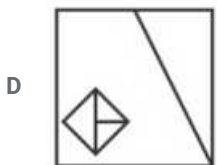
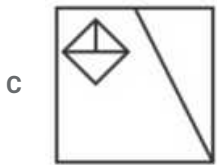
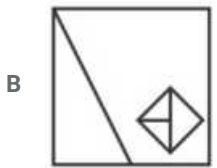
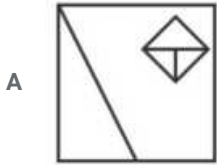
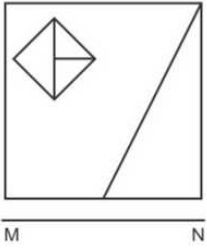
=> Ans - (D)

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Question 73

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



Answer: D

Explanation:

A horizontal mirror is placed, so the object on the top will appear at the bottom in reverse position and vice-versa.

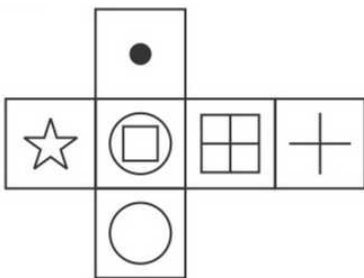
So the slanted line at top right will now start from bottom right, thus the first two options will be eliminated.

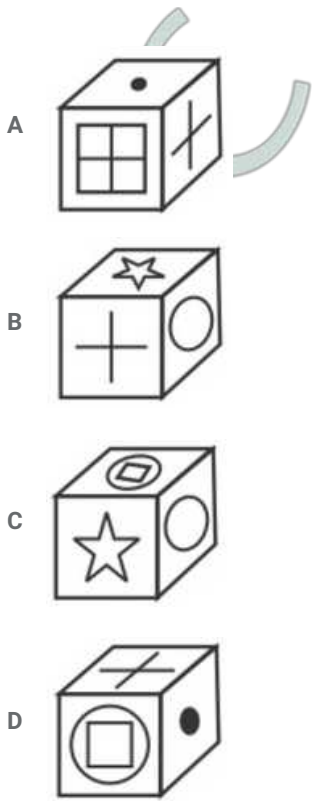
Also, in the question figure, the rhombus at top left will appear at bottom left side, hence fourth option is the right image.

=> Ans - (D)

Question 74

Which of the following cube in the answer figure cannot be made based on the unfolded cube in the question figure?

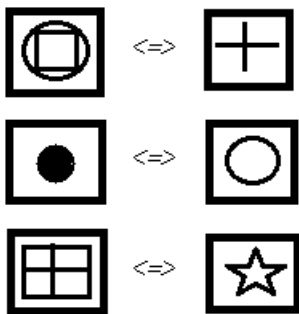




Answer: D

**Explanation:**

When we fold the given figure, the square inside the circle will become the base of the cube and the side with only '+' sign will become top, and thus they will face each other. Similarly, the sides which will face each other will be :



Since, the opposite sides cannot be adjacent in the cube, thus the cube in the last option is not possible.

=> Ans - (D)

**Question 75**

A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as shown in the given two matrices. The columns and rows of Matrix-I are numbered from 0 to 4 and that of Matrix-II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, for example 'C' can be represented by 21,34 etc and T can be represented by 97,89 etc. Similarly, you have to identify the set for the word 'MAZE'.

Matrix - I

	0	1	2	3	4
0	E	F	H	E	I
1	E	G	E	M	M
2	K	C	H	G	L
3	L	J	G	G	C
4	J	A	M	J	J

Matrix - II

	5	6	7	8	9
5	N	W	P	V	S
6	R	W	Q	Y	N
7	P	Z	P	U	U
8	N	Q	U	R	T
9	R	V	T	Q	O

A 22,97,43,66

B 24,76,12,66

C 31,76,11,58

D 14,41,76,12

Answer: D

Explanation:

(A) : 22,97,43,66 = HTJW

(B) : 24,76,12,66 = LZEW

(C) : 31,76,11,58 = JZGV

(D) : 14,41,76,12 = **MAZE**

=> Ans - (D)

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## Quant

Instructions

For the following questions answer them individually

Question 76

Find the average of first 20 multiples of 9.

A 94.8

B 94.7

C 94.6

D 94.5

Answer: D

Explanation:

First 20 multiples of 9 = 9, 18, 27, ....., 171, 180

=> Sum =  $9(1 + 2 + 3 + \dots + 19 + 20)$

$= 9 \times \frac{20(20+1)}{2}$  [ $\because$  Sum of first  $n$  integers =  $\frac{n(n+1)}{2}$ ]

$= 9 \times 10 \times 21 = 1890$

=> Average =  $\frac{1890}{20} = 94.5$

=> Ans - (D)

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Question 77

Calculate:  $\frac{7|2-6|-4|5| \div 5}{-7(2)-2 \times 2 \div 2+2}$

A  $\frac{-16}{18}$

B  $\frac{-14}{7}$

C  $\frac{-12}{7}$

D  $\frac{-12}{18}$

Answer: C

Explanation:

$$\text{Expression} = \frac{7|2-6|-4|5|\div 5}{-7(2)-(2\times 2\div 2)+2}$$

We know that  $|-x| = x$

$$= \frac{7|-4|-4|5|\div 5}{-7(2)-(2\times 2\div 2)+2}$$

$$= \frac{(7\times 4)-4}{-14-2+2}$$

$$= \frac{24}{-14} = \frac{-12}{7}$$

=> Ans - (C)

Question 78

What is the value of equation  $a^3 + b^3 + c^3 - 3abc$  if  $a^2 + b^2 + c^2 = ab + bc + ca + 4$  and  $a + b + c = 4$

A 0

B 1

C 16

D 256

Answer: C

Explanation:

Given :  $a + b + c = 4$  -----(i)

and  $a^2 + b^2 + c^2 = ab + bc + ca + 4$

=>  $a^2 + b^2 + c^2 - ab - bc - ca = 4$  -----(ii)

To find :  $a^3 + b^3 + c^3 - 3abc$

$$= (a + b + c)(a^2 + b^2 + c^2 - ab - bc - ca)$$

Substituting values from equations (i) and (ii), we get :

$$= 4 \times 4 = 16$$

=> Ans - (C)

Question 79

What is the x - intercept of the linear equation  $18x + 25y - 900 = 0$ ?

A 18

B 25

C 50

D 450

Answer: C

Explanation:

Equation of line :  $18x + 25y - 900 = 0$

To find x-intercept, we need to put  $y = 0$  (and vice-versa)

$$\Rightarrow 18x + 25(0) = 900$$

$$\Rightarrow x = \frac{900}{18} = 50$$

$\Rightarrow$  Ans - (C)

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### Question 80

Two equal circles intersect each other at point A and B, whose centers are O and O'. OO' = 24 mm and AB = 10 mm, then find the area (in sq. mm) of the circle.

A 530.66

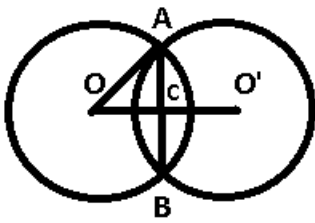
B 520.66

C 510.33

D 500.33

Answer: A

Explanation:



AB is chord to each of the circle and AB = 10 mm and OO' = 24 mm

Let radius of each circle =  $r$  mm

A line drawn from the centre of the circle perpendicular to the chord bisects it in two parts.

$$\Rightarrow AC = \frac{10}{2} = 5 \text{ mm}$$

$$\text{Similarly, } OC = \frac{24}{2} = 12 \text{ mm}$$

Now, in  $\triangle OAC$

$$\Rightarrow (OA)^2 = (OC)^2 + (AC)^2$$

$$\Rightarrow OA = \sqrt{(12)^2 + (5)^2}$$

$$\Rightarrow OA = \sqrt{144 + 25} = \sqrt{169}$$

$$\Rightarrow OA = 13 \text{ mm}$$

$$\therefore \text{Area of circle} = \pi r^2$$

$$= 3.14 \times (13)^2 = 530.66 \text{ mm}^2$$

$\Rightarrow$  Ans - (A)

### Question 81

The length of the diameter of the circle is 10 cm and length of the chord drawn in a circle is 6 cm. Find the distance (in cm) of chord from the center.

A 10

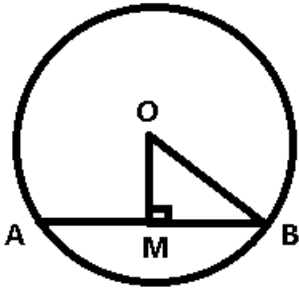
B 8

C 6

D 4

Answer: D

Explanation:



Given : Diameter = 10 cm and AB = 6 cm

To find : OM = ?

Solution : Radius OB =  $\frac{10}{2} = 5$  cm

Also, MB =  $\frac{6}{2} = 3$  cm

In right  $\triangle OMB$

$$\Rightarrow (OM)^2 = (OB)^2 - (MB)^2$$

$$\Rightarrow (OM)^2 = (5)^2 - (3)^2$$

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

$$\Rightarrow OM = \sqrt{16} = 4 \text{ cm}$$

$\Rightarrow$  Ans - (D)

**Question 82**

60% of P = 50% of Q and Q = x% of P. What is the value of x?

A 130

B 120

C 140

D 80

Answer: B

Explanation:

Given : 60% of P = 50% of Q

$$\Rightarrow 60P = 50Q$$

$$\Rightarrow \frac{Q}{P} = \frac{6}{5} \text{ -----(i)}$$

$\therefore Q = x\%$  of P

$$\Rightarrow \frac{Q}{P} = \frac{x}{100}$$

$$\Rightarrow x = \frac{6}{5} \times 100 = 120$$

$\Rightarrow$  Ans - (B)

**Question 83**

X, Y and Z are partners in a company. In one year X receives  $\frac{1}{4}$  part of profit, Y receives  $\frac{1}{5}$  part of profit and Z receives Rs 22000. How much amount (in Rs) will X get as profit?

- A 10000
- B 12000
- C 15000
- D 18000

**Answer: A**

**Explanation:**

Let total profit earned = Rs.  $20x$

$$\text{Profit earned by X} = \frac{1}{4} \times 20x = 5x$$

$$\text{Profit earned by Y} = \frac{1}{5} \times 20x = 4x$$

$$\Rightarrow \text{Profit earned by Z} = 20x - (5x + 4x) = 11x$$

According to ques,

$$\Rightarrow 11x = 22,000$$

$$\Rightarrow x = \frac{22,000}{11} = \text{Rs. } 2,000$$

$$\therefore \text{Amount earned by X as profit} = 5 \times 2,000 = \text{Rs. } 10,000$$

$\Rightarrow$  Ans - (A)

**Question 84**

P and Q started a business by investing Rs 50000 and Rs 40000 respectively. After 4 months, P withdraws Rs 20000 while Q invest Rs 70000 more after 6 months of starting the business. At the end of the year P's share in the profit is Rs 11000. What will be the total profit (in Rs) at the end of year?

- A 33500
- B 27600
- C 42800
- D 38800

**Answer: A**

**Explanation:**

P invested Rs. 50,000 for 4 months and Rs. 30,000 for 8 months

Q invested Rs. 40,000 for 6 months and Rs. 110,000 for 6 months

$$\Rightarrow \text{Ratio of profits of P:Q} = [(50,000 \times 4) + (30,000 \times 8)] : [(40,000 \times 6) + (110,000 \times 6)]$$

$$= (20 + 24) : (24 + 66) = 44 : 90 = 22 : 45$$

Let total profit earned = Rs.  $x$

$$\Rightarrow \text{P's share} = \frac{22}{(22+45)} \times x = 11,000$$

$$\Rightarrow x = 11,000 \times \frac{67}{22}$$

$$\Rightarrow x = 500 \times 67 = \text{Rs. } 33,500$$

$\Rightarrow$  Ans - (A)

**Question 85**

The average weight of 25 candles is 40 grams. If some candles of weight 50 grams each were removed, then average weight becomes 37.5 grams. How many candles of weight 50 grams each were removed?

- A 3
- B 5
- C 8
- D 12

**Answer: B**

**Explanation:**

Average weight of 25 candles = 40 grams

=> Total weight of 25 candles =  $40 \times 25 = 1000$  grams

Let  $n$  candles of 50 grams of weight were removed, then

$$\Rightarrow \frac{1000 - 50n}{25 - n} = 37.5$$

$$\Rightarrow 1000 - 50n = 937.5 - 37.5n$$

$$\Rightarrow 50n - 37.5n = 1000 - 937.5$$

$$\Rightarrow 12.5n = 62.5$$

$$\Rightarrow n = \frac{62.5}{12.5} = 5$$

=> Ans - (B)

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**Question 86**

Simple interest on a sum for 9 months at 8% per annum is Rs 270. What is the value (in Rs) of the sum?

- A 5200
- B 5400
- C 4500
- D 3600

**Answer: C**

**Explanation:**

Let principal amount = Rs.  $x$

Rate of interest = 8% and time period =  $\frac{9}{12} = \frac{3}{4}$  years

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

$$\Rightarrow \frac{x \times 8 \times 3}{4 \times 100} = 270$$

$$\Rightarrow \frac{6x}{100} = 270$$

$$\Rightarrow x = \frac{270 \times 100}{6} = \text{Rs. } 4,500$$

=> Ans - (C)



**Question 87**

The difference between cost price and selling price is Rs 575. If profit percentage is 23%, then what is the selling price (in Rs)?

- A 3225
- B 1925
- C 2500
- D 3075

**Answer: D**

**Explanation:**

Difference between cost price and selling price = Profit = Rs. 575

$$\text{Profit \%} = \frac{\text{profit}}{\text{C.P.}} \times 100$$

$$\Rightarrow \frac{575}{\text{CP}} \times 100 = 23$$

$$\Rightarrow \text{CP} = \frac{57500}{23} = \text{Rs. } 2500$$

$$\therefore \text{Selling price} = \text{Rs. } (2500 + 575) = \text{Rs. } 3075$$

$\Rightarrow$  Ans - (D)

**Question 88**

A merchant marks the price of his articles 20% above the cost price. If he allows 20% discount, then what is the profit or loss percentage?

- A 2% loss
- B 4% profit
- C 4% loss
- D No profit/loss

**Answer: C**

**Explanation:**

Let cost price = Rs.  $100x$

$$\Rightarrow \text{Marked price} = 100x + \left(\frac{20}{100} \times 100x\right) = \text{Rs. } 120x$$

Discount % = 20%

$$\Rightarrow \text{Selling price} = 120x - \left(\frac{20}{100} \times 120x\right) = \text{Rs. } 96x$$

$$\therefore \text{Selling price} < \text{Cost price, thus loss \%} = \frac{(100x - 96x)}{100x} \times 100 = 4\%$$

$\Rightarrow$  Ans - (C)

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**Question 89**

What is that least digit that must be added to the product  $5786 \times 5784$  to make it a perfect square?

- A 1
- B 6

C 5

D 4

Answer: A

Explanation:

Expression :  $5786 \times 5784$

$$= (5785 + 1) \times (5785 - 1)$$

Let  $5785 = x$

$$\Rightarrow (x + 1)(x - 1) = x^2 - 1$$

Clearly to make above term a perfect square, we need to add 1

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

$\Rightarrow$  Ans - (A)

Question 90

20 boys do one fourth of work in 25 days. How many more boys will be required to complete the remaining work in 50 days?

A 8

B 10

C 15

D 20

Answer: B

Explanation:

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

Let total work to be done = 4 units

$$\Rightarrow \text{Remaining work} = 4 - \frac{1}{4} \times 4 = 3 \text{ units}$$

Let  $x$  more boys are required.

$$\Rightarrow \frac{20 \times 25}{1} = \frac{(x+20) \times 50}{3}$$

$$\Rightarrow \frac{(x+20)}{3} = \frac{20 \times 25}{50}$$

$$\Rightarrow x + 20 = 10 \times 3 = 30$$

$$\Rightarrow x = 30 - 20 = 10$$

$\therefore$  10 more boys will be required to complete the remaining work in 50 days.

$\Rightarrow$  Ans - (B)

Question 91

When Gopal walks from A to B and returns from B to A on cycle, then it takes him 46 minutes. By walking both ways, it takes him 75 minutes. If he rides cycle both ways then what will be the total time (in minutes)?

A 19

B 17

C 23

D 15

Answer: B

**Explanation:**

Let speed of walking =  $x$  m/min and speed of cycling =  $y$  m/min

Let distance between A and B =  $d$  m

According to ques, when he walks both ways,

$$\Rightarrow \frac{d}{x} + \frac{d}{x} = 75$$

$$\Rightarrow \frac{d}{x} = \frac{75}{2} = 37.5$$

Also,  $\frac{d}{x} + \frac{d}{y} = 46$

$$\Rightarrow \frac{d}{y} = 46 - 37.5 = 8.5$$

$\therefore$  Time taken if he cycles both ways =  $\frac{d}{y} + \frac{d}{y}$

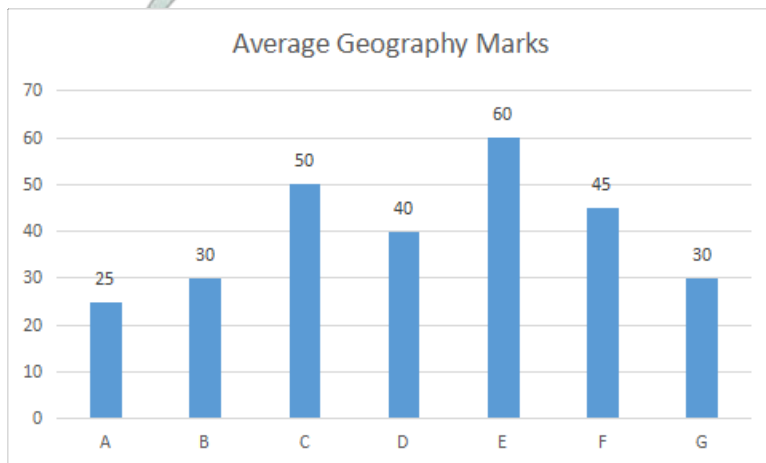
$$= 8.5 + 8.5 = 17 \text{ minutes}$$

$\Rightarrow$  Ans - (B)

## SSC CGL Free Mock Test (Latest Pattern)

**Instructions**

The bar graph shows average marks scored in a 100 marks Geography exam by students of 7 divisions of Standard X. Study the diagram and answer the following questions.



**Question 92**

Which division scored the second highest average marks?

A F

B B

C A

D C

Answer: D

**Explanation:**

Marks when arranged in descending order are :  $60 > 50 > 45 > 40 > 30, 30 > 25$

Corresponding division is :  $E, C, F, D, B, G, A$

Thus, **C** division scored second highest marks.

$\Rightarrow$  Ans - (D)

**Question 93**

What is the ratio of average marks scored by Division C to Division G?

- A 3 : 5
- B 5 : 3
- C 6 : 5
- D 5 : 6

**Answer: B**

**Explanation:**

Average marks scored by Division C = 50

Average marks scored by Division G = 30

=> Required ratio =  $\frac{50}{30} = 5 : 3$

=> Ans - (B)

**Question 94**

Average marks of division A were lesser than that of Division C by \_\_\_\_\_

- A 100%
- B 150%
- C 200%
- D 50%

**Answer: D**

**Explanation:**

Marks scored by Division A = 25

Marks scored by Division C = 50

=> Required % =  $\frac{(50-25)}{50} \times 100$

=  $25 \times 2 = 50\%$

=> Ans - (D)

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

**Question 95**

If all students of Division C got bonus 10 marks for winning the inter-school trophy their new average marks would increase by how much?

- A 15%
- B 25%
- C 16.67%
- D 20%

**Answer: D**

**Explanation:**

Current average marks of all students of Division C = 50

If all students of Division C got bonus 10 marks each, then new average marks =  $50 + 10 = 60$

$$\Rightarrow \text{Required \% increase} = \frac{(60-50)}{50} \times 100$$

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

$\Rightarrow$  Ans - (D)

**Instructions**

For the following questions answer them individually

**Question 96**

The lengths of the two diagonals of a rhombus are 8 cm and 15 cm respectively. Find its area (*in cm<sup>2</sup>*).

- A 30
- B 120
- C 90
- D 60

**Answer:** D

**Explanation:**

Length of one diagonal = 8 cm and length of other diagonal = 15 cm

$$\Rightarrow \text{Area of rhombus} = \frac{1}{2} \times d_1 d_2$$

$$= \frac{1}{2} \times 8 \times 15$$

$$= 4 \times 15 = 60 \text{ cm}^2$$

$\Rightarrow$  Ans - (D)

**Question 97**

Find the area (*in cm<sup>2</sup>*) of a semi-circle of radius 35 cm.

- A 3850
- B 960
- C 1920
- D 1925

**Answer:** D

**Explanation:**

Radius of semi circle =  $r = 35$  cm

$$\Rightarrow \text{Area of semi-circle} = \frac{1}{2} \pi r^2$$

$$= \frac{1}{2} \times \frac{22}{7} \times (35)^2$$

$$= 11 \times 5 \times 35 = 1925 \text{ cm}^2$$

$\Rightarrow$  Ans - (D)

Question 98

Find the total surface area ( $in\text{cm}^2$ ) of a right circular cone of diameter 14 cm and slant height 10 cm.

- A 374
- B 570
- C 428
- D 524

Answer: A

Explanation:

Radius of cone,  $r = 7$  cm and slant height,  $l = 10$  cm

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

$$= \frac{22}{7} \times 7 \times (10 + 7)$$

$$= 22 \times 17 = 374\text{ cm}^2$$

=> Ans - (A)

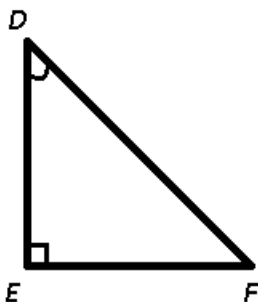
Question 99

$\triangle DEF$  is right angled at E. If  $m\angle D = 45^\circ$ , then find the value of  $(\tan F + 1/3)$ .

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

Answer: A

Explanation:



Sum of angles of  $\triangle DEF = \angle D + \angle E + \angle F = 180^\circ$

$$\Rightarrow 45^\circ + 90^\circ + \angle F = 180^\circ$$

$$\Rightarrow \angle F = 180^\circ - 135^\circ = 45^\circ$$

To find :  $(\tan F + \frac{1}{3})$

$$= \tan(45^\circ) + \frac{1}{3}$$

$$= 1 + \frac{1}{3} = \frac{4}{3}$$

=> Ans - (A)

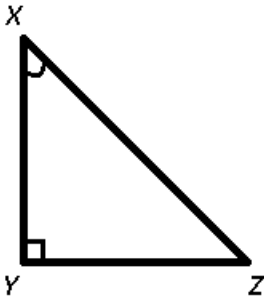
Question 100

In  $\triangle XYZ$  measure of angle  $Y$  is  $90^\circ$ . If  $\operatorname{cosec} X = 17/15$ , and  $XY = 4\text{cm}$ , then what is the length (in cm) of side  $YZ$ ?

- A 7.5
- B 8.5
- C 5
- D 6

Answer: A

Explanation:



Given :  $\operatorname{cosec} X = \frac{17}{15}$

Also,  $\operatorname{cosec} X = \frac{XZ}{YZ} = \frac{17}{15}$

Let  $XZ = 17x$  cm and  $YZ = 15x$  cm

Thus, in  $\triangle XYZ$ ,  $\Rightarrow (XY)^2 = (XZ)^2 - (YZ)^2$

$\Rightarrow (XY)^2 = (17x)^2 - (15x)^2$

$\Rightarrow (XY)^2 = 289x^2 - 225x^2 = 64x^2$

$\Rightarrow XY = \sqrt{64x^2} = 8x$  cm

According to ques,  $\Rightarrow 8x = 4$

$\Rightarrow x = \frac{4}{8} = \frac{1}{2}$

$\therefore YZ = 15 \times \frac{1}{2} = 7.5$  cm

$\Rightarrow$  Ans - (A)

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