



SSC CHSL 16th October 2020 Shift-3

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English Language (Basic Knowledge)

Instructions

For the following questions answer them individually

Question 1

Select the correct indirect form of the given sentence.

Rama said to me, "I need your help for my new assignment."

- A Rama told me that she needed my help for her new assignment.
- B Rama says that she needs my help for the new assignment.
- C Rama said to me I need your help for my new assignment.
- D Rama said that she was needing my help for her new assignment.

Answer: A

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Question 2

Select the correct passive form of the given sentence.

My mother is watching a new serial about the life of Dr. Ambedkar.

- A A new serial about the life of Dr. Ambedkar will be watched by my mother.
- B A new serial about the life of Dr. Ambedkar is being watched by my mother.
- C A new serial about the life of Dr. Ambedkar is watched by my mother.
- D A new serial about the life of Dr. Ambedkar was being watched by my mother.

Answer: B

Question 3

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

The new product will be arrive on supermarket shelves only next year.

- A will arriving on
- B will arrived on
- C will arrive on
- D No improvement

Answer: C

Question 4

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

An imagined society where everything is perfect and everyone is happy

- A Utopia

- B Responsible
- C Evangelist
- D Hypocrite

Answer: A

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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.

Recently, I visited an orphanage for differently abled (1)_____ in Delhi. The courteous staff (2)_____ me feel at home and allowed me to interact (3)_____ with the children. I was told beforehand that I could carry food packets and items of daily use like stationery, blankets, and clothes (4)_____ the children, who were in the age group of five to 13. The children were a cheerful lot, the smiles on (5)_____ faces reflecting the joy within on receiving gifts.

Question 5

Select the most appropriate option for blank number 1.

- A children's
- B children
- C child
- D child's

Answer: B

Question 6

Select the most appropriate option for blank number 2.

- A make
- B makes
- C was made
- D made

Answer: D

Question 7

Select the most appropriate option for blank number 3.

- A freely
- B heartily
- C clearly
- D truly

Answer: A

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Question 8

Select the most appropriate option for blank number 4.

- A by
- B for
- C with
- D of

Answer: B

Question 9

Select the most appropriate option for blank number 5.

- A them
- B that
- C those
- D their

Answer: D

Instructions

For the following questions answer them individually

Question 10

Select the most appropriate meaning of the given idiom.

Get something off your chest

- A Remove something from you as it is troubling you a lot
- B Tell people some good news that you know and you want to share
- C Have difficulty in doing something that is quite easy
- D Express something that has been worrying you, and you want to say

Answer: D

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Question 11

Select the most appropriate synonym of the given word.

IDLENESS

- A Cheerfulness
- B Industry
- C Lethargy

D Energy

Answer: C

Question 12

Select the most appropriate meaning of the given idiom.

Plain as day

A Very obvious and easy to understand

B Visible only in broad daylight

C Very simple and easy to do

D Very interesting to know

Answer: A

Question 13

Select the most appropriate word to fill in the blank.

Parents who are very _____ later repent giving their children too much freedom.

A permissive

B strict

C overbearing

D different

Answer: A

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Question 14

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

Incapable of making mistakes

A Ineligible

B Infallible

C Negligible

D Inevitable

Answer: B

Question 15

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

After walking a few steps in the forest, our guide sensing some sort of movement in the foliage behind us.

A was sensed

B sensed

- C No improvement
- D had been senses

Answer: B

Question 16

Select the INCORRECTLY spelt word.

- A Changable
- B Mileage
- C Arrangement
- D Practice

Answer: A

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Question 17

Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

- A. Einstein had a deep distaste for enforced learning, and was known to skip many of his college lectures.
- B. Einstein was also severely critical of the exam-based education system.
- C. The great physicist Galileo too said, "You cannot teach anybody anything. You can only help them discover it within themselves."
- D. He often felt that formal education interfered with his natural desire to learn and explore.

- A ADBC
- B CABD
- C ACDB
- D DABC

Answer: A

Question 18

Select the most appropriate ANTONYM of the given word.

TESTIMONY

- A Disproof
- B Approval
- C Difficulty
- D Witness

Answer: A

Question 19

In the given sentence, identify the segment which contains a grammatical error.

We can see much changes in Government schools these days.

- A much changes
- B these days
- C in Government schools
- D We can see

Answer: A

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Question 20

In the given sentence, identify the segment which contains a grammatical error.

I think Virat Kohli will remain the captain of the Indian team in a year 2020.

- A in a year 2020
- B the captain
- C of the Indian team
- D will remain

Answer: A

Question 21

Select the INCORRECTLY spelt word.

- A Privilage
- B Alligator
- C Judicious
- D Alimony

Answer: A

Question 22

Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

- A. Soon, the idea took its final shape and she started selling barfis under the brand name Harbhajan's and the tagline "You'll remember your childhood".
- B. That's when Raveena suggested that she should start selling her signature 'Besan ki Barfi'.
- C. Today Harbhajan Kaur is truly living by these words as she now sells tasty barfi and makes good money.
- D. It all started in 2016, when 94 year old Harbhajan's daughter asked her if she had any regrets in life, to which she expressed that she never earned a penny for herself.

- A CBAD
- B DCAB
- C BCDA
- D DBAC

Answer: D

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Question 23

Select the most appropriate word to fill in the blank.

It is said that children who learn to use their body, mind and emotions for their own wellbeing, work _____ the wellbeing of others.

- A into
- B within
- C towards
- D forwards

Answer: C

Question 24

Select the most appropriate ANTONYM of the given word.

SPIRITUAL

- A Physical
- B Righteous
- C Ghostly
- D Pious

Answer: A

Question 25

Select the most appropriate synonym of the given word.

REPROACH

- A Berate
- B Indulge
- C Train
- D Supervise

Answer: A

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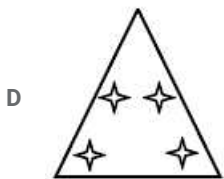
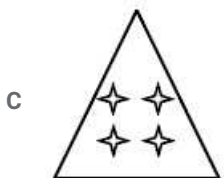
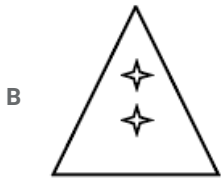
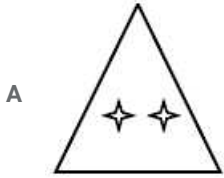
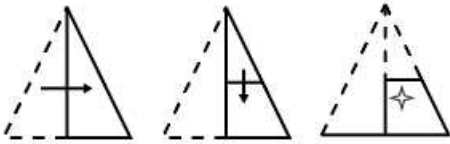
General Intelligence

Instructions

For the following questions answer them individually

Question 26

The sequence of folding a 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

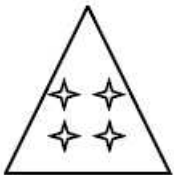
Explanation:

When the paper is unfolded, the pattern of cutting will be similar in the paper.

When the paper is unfolded first to the top, star will appear similarly on the top part.

When the paper is unfolded again to the left, two stars will appear similarly on the left part.

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



Hence, the correct answer is Option C

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Question 27

Select the word-pair in which the two words are related in the same way as are the two words in the following word-pair.

Coach : Player

A Captain : Team

B Team : Practice

- C Umpire : Cricket
- D Teacher : Student

Answer: D

Explanation:

Coach teaches and trains the players. Similarly, Teacher teaches the students.

∴ Teacher and Student are related in the same way Coach and Player are related.

Hence, the correct answer is Option D

Question 28

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

5, 3, 3, 5, 15, ?

- A 59
- B 45
- C 69
- D 39

Answer: C

Explanation:

The logic here is

$$5 \times 1 - 2 = 3$$

$$3 \times 2 - 3 = 3$$

$$3 \times 3 - 4 = 5$$

$$5 \times 4 - 5 = 15$$

Similarly, the next number in the series = $15 \times 5 - 6 = 69$

Hence, the correct answer is Option C

Question 29

Arrange the following words in a logical and meaningful order.

1. Letter
2. Postman
3. Delivery
4. Post Box
5. Post Office

- A 3, 1, 2, 5, 4
- B 5, 4, 3, 1, 2
- C 3, 2, 1, 5, 4
- D 1, 4, 5, 2, 3

Answer: D

Explanation:

Letter will be posted in the post box, then the letter is transferred to post office. Finally the letter will be delivered by the postman at the delivery address.

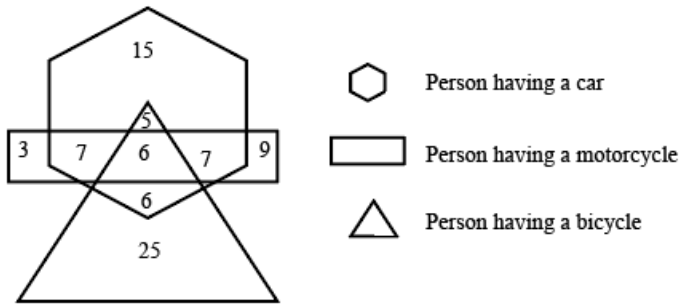
∴ The meaningful order of the given words is Letter, Post Box, Post Office, Postman, Delivery

Hence, the correct answer is Option D

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Question 30

Study the following diagram.



How many persons have only motorcycle?

- A 32
- B 3
- C 9
- D 12

Answer: D

Explanation:

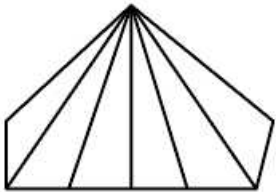
From the given diagram,

Number of persons who have only motorcycle = Number of persons in rectangle with no intersection with hexagon and triangle = $3 + 9 = 12$

Hence, the correct answer is Option D

Question 31

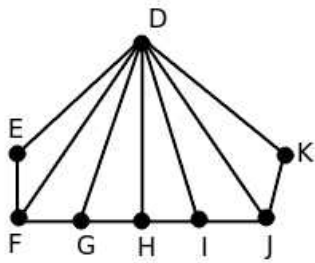
How many triangles are there in the given figure?



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

Answer: A

Explanation:



The different triangles in the given figure are DEF, DFG, DGH, DHI, DIJ, DJK, DFH, DGI, DHJ, DFI, DGJ, DFJ

∴ Number of triangles in the given figure = 12

Hence, the correct answer is Option A

Question 32

Select the set in which the numbers are related in the same way as are the numbers of the following set.

(2, 6, 42)

A (9, 13, 43)

B (4, 8, 39)

C (4, 12, 86)

D (1, 2, 6)

Answer: D

Explanation:

The logic here is

$$2 \times 3 = 6$$

$$6 \times 7 = 42$$

Second number is the product of first number and next number to first number.

Third number is the product of second number and next number to second number.

Similarly,

$$1 \times 2 = 2$$

$$2 \times 3 = 6$$

∴ (1, 2, 6) are related in the same way (2, 6, 42) are related

Hence, the correct answer is Option D

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Question 33

Four numbers have been given, out of which three are alike in some manner and one is different. Select the one that is different.

A 393

B 384

C 441

D 600

Answer: B

Question 34

Select the set in which the numbers are related in the same way as are the numbers of the following set.

(10, 50, 1250)

A (9, 45, 945)

B (2, 10, 125)

C (4, 20, 300)

D (4, 8, 32)

Answer: D

Explanation:

The logic here is

$$10 \times 5 = 50$$

$$50 \times 5^2 = 50 \times 25 = 1250$$

Similarly,

$$4 \times 2 = 8$$

$$8 \times 2^2 = 8 \times 4 = 32$$

\therefore (4, 8, 32) are related in the same way (10, 50, 1250) are related.

Hence, the correct answer is Option D

Question 35

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



Answer: B

Explanation:

From the figure series,

One of the dark triangle is moving two places in clockwise direction and the other dark triangle moving one place in clockwise direction.

∴ The next figure of the given series is



Hence, the correct answer is Option B

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Question 36

Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

1. Some bananas are green.
2. Some green are yellow.

Conclusions:

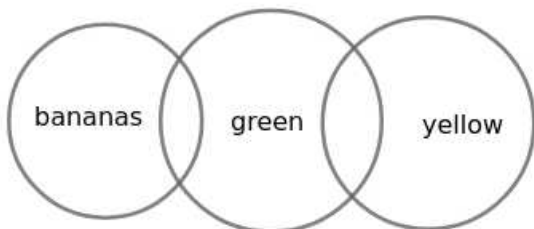
- I. Some bananas are yellow.
- II. Some yellow are bananas
- III. All yellow are bananas.
- IV. Some green are bananas.

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

Answer: D

Explanation:

The basic diagram from the given statements is



I. Some bananas are yellow

From the basic diagram, some bananas are not yellow. Hence conclusion I do not follow.

II. Some yellow are bananas

From the basic diagram, some yellow are not bananas. Hence conclusion II do not follow.

III. All yellow are bananas

From the basic diagram, all yellow are not bananas. Hence conclusion III do not follow.

IV. Some green are bananas

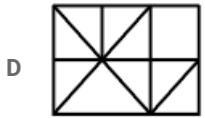
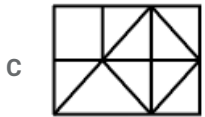
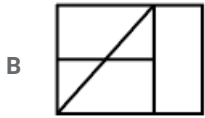
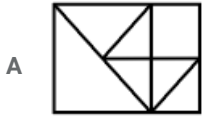
From the basic diagram, some green are bananas. Hence conclusion IV follows .

∴ Only conclusion IV follows the given statements

Hence, the correct answer is Option D

Question 37

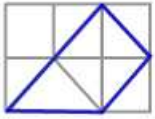
Select the option in which the given figure is embedded. (Rotation is not allowed)



Answer: C

Explanation:

The given figure is embedded in the figure 3 as shown below



Hence, the correct answer is Option C

Question 38

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

A LMNO

B ABCD

C IJKL

D WXYZ

Answer: D

Explanation:

In the letter-clusters LMNO, ABCD, IJKL, there is one vowel letter in the letter-clusters.

In WXYZ, there is no vowel letter in the letter-cluster.

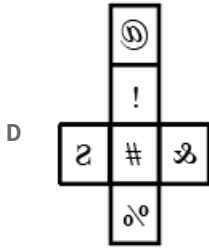
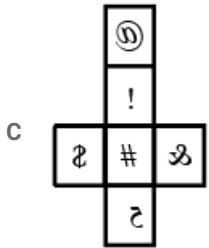
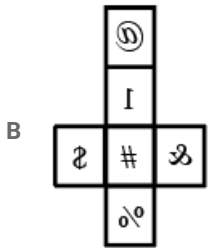
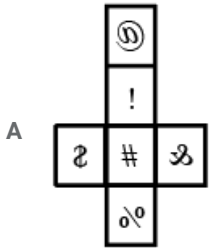
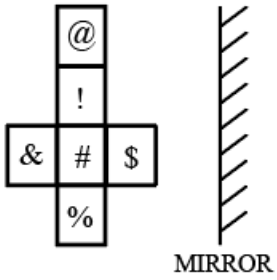
∴ WXYZ is the odd one among the given letter-clusters.

Hence, the correct answer is Option D

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Question 39

Which of the following options is the correct mirror image of the given figure?



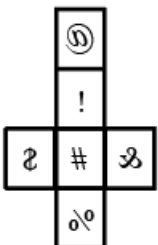
Answer: A

Explanation:

When a mirror is placed on the right of the figure,

The facing of the figure to the left and right direction changes to the opposite direction in the mirror image(left facing changes to right and vice versa). There won't be change in shape of the figure.

∴ The mirror image of the given figure is



Hence, the correct answer is Option A

Question 40

Select the combination of letters that when sequentially placed in the blanks of the given letter series will complete the series.

__bc__eaa__cde__abc__ea__cdee

- A aacdebceacdeabc
- B aacdebceaabccde
- C aacdebceabceacd
- D abceacdeabcacde

Answer: A

Explanation:

By Trial and Error method,

Option A

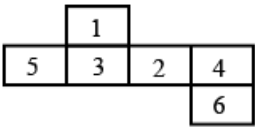
aabccdee | aabccdee | aabccdee | aabccdee

The above letters form a series.

Hence, the correct answer is Option A

Question 41

If the following figure is folded to form a cube, then which number will be on the face opposite to the face having number '1'?



- A 4
- B 6
- C 5
- D 1

Answer: B

Explanation:

When the figure is folded to form a cube with base as 3,

3 will be opposite to 4

2 will be opposite to 5

1 will be opposite to 6

∴ 6 will be on the face opposite to the face having number 1

Hence, the correct answer is Option B

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Question 42

Aman has an equal number of one, five, ten and twenty rupee bank notes, to make a total of ₹ 1,080. How many bank notes does Aman have in total?

- A 100
- B 90
- C 120
- D 105

Answer: C

Explanation:

Let the number of one rupee notes with the Aman = a

Aman has an equal number of one, five, ten and twenty rupee bank notes

\Rightarrow Total number of notes with Aman = $4a$

Total amount with Aman = ₹ 1,080

$$\Rightarrow (1 \times a) + (5 \times a) + (10 \times a) + (20 \times a) = 1080$$

$$\Rightarrow 36a = 1080$$

$$\Rightarrow a = 30$$

\therefore Total number of notes with Aman = $4a = 4 \times 30 = 120$

Hence, the correct answer is Option C

Question 43

Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.

BLISS : STNLF :: STOP : _____

- A BLSQ
- B TQST
- C TTSSQ
- D TTRR

Answer: D

Question 44

Which two numbers should be interchanged in the following equation to make it correct?

$$6 + 28 \div 4 - 2 \times 17 = 12$$

- A 17 and 4
- B 28 and 2
- C 17 and 6
- D 6 and 4

Answer: C

Explanation:

By Trial and Error method,

Option A

$$6 + 28 \div 17 - 2 \times 4 = 12$$

$$6 + \frac{28}{17} - 2 \times 4 = 12$$

After solving the value will be decimal which is not possible. Hence Option A is incorrect.

Option B

$$6 + 2 \div 4 - 28 \times 17 = 12$$

$$6 + 0.5 - 28 \times 17 = 12$$

After solving the value will be decimal which is not possible. Hence Option B is incorrect.

Option C

$$17 + 28 \div 4 - 2 \times 6 = 12$$

$$17 + 7 - 2 \times 6 = 12$$

$$17 + 7 - 12 = 12$$

$$12 = 12$$

Hence, the correct answer is Option C

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Question 45

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

IHUW : HFRS :: LMQT : ?

- A LKPN
- B LNMK
- C LMNO
- D KKNP

Answer: D

Explanation:

The logic here is

9	8	21	23
I	H	U	W
-1	-2	-3	-4
H	F	R	S
8	6	18	19

Similarly,

12	13	17	20
L	M	Q	T
-1	-2	-3	-4
K	K	N	P
11	11	14	16

∴ KKNP is related to LMQT in the same way HFRS is related to IHUW

Hence, the correct answer is Option D

Question 46

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

9 : 72 :: 5 : ?

- A 25
- B 35
- C 39
- D 20

Answer: D

Explanation:

$$9 \times 8 = 72$$

Second number is the product of first number and number before first number.

Similarly, the required number = $5 \times 4 = 20$

Hence, the correct answer is Option D

Question 47

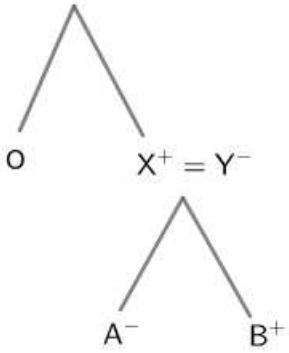
Between the siblings A and B, one is a brother and the other a sister. B is the son of X. X is Y's husband and O's brother. How is A related to O?

- A Granddaughter
- B Cousin
- C Nephew
- D Niece

Answer: D

Explanation:

According to the problem, the family tree is



∴ A is niece of O

Hence, the correct answer is Option D

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Question 48

In certain code language, SCIENCE is written as TFNLWNR. How will ARTS be written in that language?

- A BTYA
- B BUYZ
- C TSRA
- D BTYZ

Answer: B

Explanation:

Given, SCIENCE is written as TFNLWNR in the code language

The logic here is

19	3	9	5	14	3	5
S	C	I	E	N	C	E
+1	+3	+5	+7	+9	+11	+13
T	F	N	L	W	N	R
20	6	14	12	23	14	18

Similarly,

1	18	20	19
A	R	T	S
+1	+3	+5	+7
B	U	Y	Z
2	21	25	26

∴ ARTS will be written as BUYZ in the code language

Hence, the correct answer is Option B

Question 49

'Tree' is related to 'Mango' in the same way as 'Vine' is related to '_____.'

- A Orange
- B Banana
- C Guava
- D Grape

Answer: D

Explanation:

Mango is a fruit which is available from tree. In the same way, Vine is made from grapes.

∴ Vine is related to Grape in the same way Tree is related to Mango

Hence, the correct answer is Option D

Question 50

In certain code language, SKILL is coded as 57 and LOVE is coded as 40. How will LIE be coded as in that language?

- A 20
- B 22
- C 17
- D 26

Answer: C

SSC CGL Previous Papers (DOWNLOAD PDF)

Quantitative Aptitude(Basic Arithmetic Skill)

Instructions

For the following questions answer them individually

Question 51

In a 15% discount sale, the cost of a book is ₹2,150. What was the original price of the book? (Correct to two decimal places)

- A ₹1,527.00
- B ₹2,500.00
- C ₹2,529.41
- D ₹2,250.50

Answer: C

Explanation:

Given,

Cost Price of the book = ₹2,150

Discount% = 15%

Let the Marked Price = MP

$$\Rightarrow \frac{85}{100} \times MP = 2150$$

$$\Rightarrow MP = ₹2,529.41$$

∴ Original Price of the book = ₹2,529.41

Hence, the correct answer is Option C

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Question 52

The ratio of three angles of a triangle is 1 : 3 : 5. Which is the measure of the greatest angle?

- A 120°
- B 60°
- C 80°
- D 100°

Answer: D

Explanation:

Given, ratio of the three angles of the triangle is 1 : 3 : 5

Let the three angles are 1p, 3p, 5p

$$\Rightarrow 1p + 3p + 5p = 180^\circ$$

$$\Rightarrow 9p = 180^\circ$$

$$\Rightarrow p = 20^\circ$$

∴ Greatest angle of the triangle = 5p = 5(20°) = 100°

Hence, the correct answer is Option D

Question 53

The cost price of 33 books is the same as the selling price of 'x' books. If the profit is 10%, then the value of 'x' is :

- A 30
- B 20
- C 40
- D 10

Answer: A

Explanation:

Let the cost price of 33 books = C

$$\text{Cost price of 1 book} = \frac{C}{33}$$

Profit% = 10%

$$\Rightarrow \text{Selling price of 1 book} = \frac{110}{100} \times \frac{C}{33} = \frac{C}{30}$$

According to the problem,

$$\text{Selling price of 'x' books} = C$$

Selling price of 1 book = $\frac{C}{x}$

$$\Rightarrow \frac{C}{x} = 30$$

$$\Rightarrow x = 30$$

Hence, the correct answer is Option A

Question 54

If $a : b = 3 : \sqrt{5}$, then the value of $(2a + b) : (3a - 2b)$ is:

A $\frac{1}{64}(64 + 21\sqrt{5})$

B $\frac{1}{61}(64 + 21\sqrt{5})$

C $\frac{1}{62}(64 + 21\sqrt{5})$

D $\frac{1}{63}(64 + 21\sqrt{5})$

Answer: B

Explanation:

Given, $a : b = 3 : \sqrt{5}$

$$\Rightarrow \frac{a}{b} = \frac{3}{\sqrt{5}}$$

$$\Rightarrow a = \frac{3}{\sqrt{5}}b$$

$$\therefore (2a + b) : (3a - 2b) = \frac{2a+b}{3a-2b}$$

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

$$= \frac{6b + \sqrt{5}b}{9b - 2\sqrt{5}b}$$

$$= \frac{6 + \sqrt{5}}{9 - 2\sqrt{5}} \times \frac{9 + 2\sqrt{5}}{9 + 2\sqrt{5}}$$

$$= \frac{(6 + \sqrt{5})(9 + 2\sqrt{5})}{9^2 - (2\sqrt{5})^2}$$

$$= \frac{54 + 12\sqrt{5} + 9\sqrt{5} + 2(5)}{81 - 20}$$

$$= \frac{1}{61}(64 + 21\sqrt{5})$$

Hence, the correct answer is Option B

SSC CHSL Important Questions and Answers (Download PDF)

Question 55

The radius of a circle is 15 cm and the length of one chord of the circle is 20 cm. What is the distance of the chord from the centre of the circle?

A $5\sqrt{5} \text{ cm}$

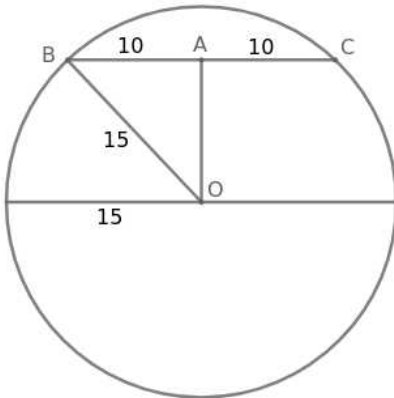
B $5\sqrt{3} \text{ cm}$

C $3\sqrt{3} \text{ cm}$

D $5\sqrt{2} \text{ cm}$

Answer: A

Explanation:



Given,

Radius of the circle = 15 cm

Length of the chord = 10 cm

From the figure,

$$OA^2 + AB^2 = OB^2$$

$$\Rightarrow OA^2 + 10^2 = 15^2$$

$$\Rightarrow OA^2 + 100 = 225$$

$$\Rightarrow OA^2 = 125$$

$$\Rightarrow OA = 5\sqrt{5} \text{ cm}$$

\therefore The distance of the chord from the centre of the circle = $OA = 5\sqrt{5} \text{ cm}$

Hence, the correct answer is Option A

Question 56

If $x - y = 13$ and $xy = 25$, then the value of $x^2 - y^2 = ?$

A $13\sqrt{240}$

B $13\sqrt{229}$

C $13\sqrt{269}$

D $13\sqrt{210}$

Answer: C

Explanation:

Given,

$$x - y = 13 \text{ and } xy = 25$$

$$\Rightarrow (x - y)^2 = 13^2$$

$$\Rightarrow x^2 + y^2 - 2xy = 169$$

$$\Rightarrow x^2 + y^2 + 2xy - 4xy = 169$$

$$\Rightarrow (x + y)^2 - 4xy = 169$$

$$\Rightarrow (x + y)^2 - 4(25) = 169$$

$$\Rightarrow (x + y)^2 - 100 = 169$$

$$\Rightarrow (x + y)^2 = 269$$

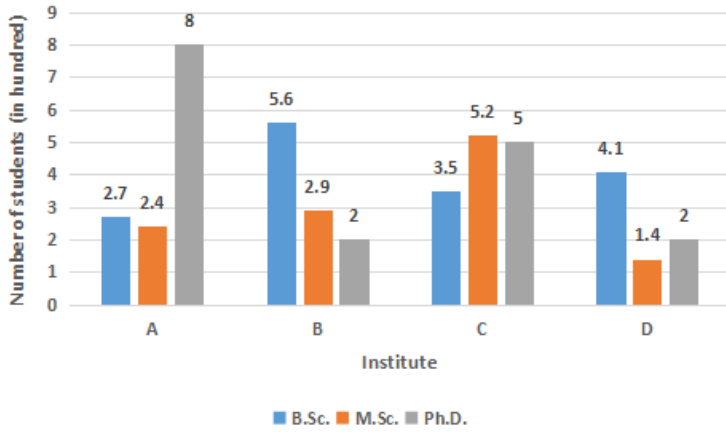
$$\Rightarrow x + y = \sqrt{269}$$

$$\therefore x^2 - y^2 = (x + y)(x - y) = (\sqrt{269})(13) = 13\sqrt{269}$$

Hence, the correct answer is Option C

Question 57

The following graph shows the number of students (in hundreds) in three different courses in four different institutes. Study the graph and answer the question.



What is the total number of students (in hundreds) in M.Sc course across all institutes?

- A 10.5
- B 11.5
- C 11.9
- D 10.8

Answer: C

Explanation:

From the graph,

The total number of students (in hundreds) in M.Sc course across all institutes = $2.4 + 2.9 + 5.2 + 1.4 = 11.9$

Hence, the correct answer is Option C

SSC CHSL Study Material

Question 58

The distance covered by a train in $(x + 1)$ hours is $(x^3 + 1)$ km. What is the speed of the train?

- A $(x + 1)$ km/h
- B $(x^2 + x + 1)$ km/h
- C $(x^2 - x + 1)$ km/h
- D $(x^3 - 1)$ km/h

Answer: C

Explanation:

Given,

Distance covered by the train = $(x^3 + 1)$ km

Time taken by the train = $(x + 1)$ hours

Speed of the train = $\frac{\text{Distance covered}}{\text{Time taken}}$

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

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

$$= (x^2 - x + 1) \text{ km/h}$$

Hence, the correct answer is Option C

Question 59

If $x + y = 4$ and $x^3 + y^3 = 12$, then the value of $x^4 + y^4 = ?$

A $\frac{146}{3}$

B $\frac{146}{9}$

C $\frac{146}{7}$

D $\frac{146}{5}$

Answer: B

Explanation:

Given, $x^3 + y^3 = 12$ (1)

$$x + y = 4$$

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

$$\Rightarrow x^3 + y^3 + 3xy(x + y) = 64$$

$$\Rightarrow 12 + 3xy(4) = 64$$

$$\Rightarrow 12xy = 52$$

$$\Rightarrow xy = \frac{52}{12}$$

$$\Rightarrow xy = \frac{13}{3} \text{(2)}$$

$$x + y = 4$$

$$\Rightarrow (x + y)^2 = 4^2$$

$$\Rightarrow x^2 + y^2 + 2xy = 16$$

$$\Rightarrow x^2 + y^2 + 2\left(\frac{13}{3}\right) = 16$$

$$\Rightarrow x^2 + y^2 = 16 - \frac{26}{3}$$

$$\Rightarrow x^2 + y^2 = \frac{22}{3} \text{(3)}$$

$$\therefore (x^3 + y^3)(x + y) = (12)(4)$$

$$\Rightarrow x^4 + x^3y + y^3x + y^4 = 48$$

$$\Rightarrow x^4 + y^4 + xy(x^2 + y^2) = 48$$

$$\Rightarrow x^4 + y^4 + \left(\frac{13}{3}\right)\left(\frac{22}{3}\right) = 48$$

$$\Rightarrow x^4 + y^4 + \frac{286}{9} = 48$$

$$\Rightarrow x^4 + y^4 = 48 - \frac{286}{9}$$

$$\Rightarrow x^4 + y^4 = \frac{432-286}{9}$$

$$\Rightarrow x^4 + y^4 = \frac{146}{9}$$

Hence, the correct answer is Option B

Question 60

In set of three numbers, the average of the first two numbers is 7, the average of the last two numbers is 10, and the average of the first and the last numbers is 14. What is the average of the three numbers?

- A 31/3
- B 25/4
- C 29/4
- D 37/3

Answer: A

Explanation:

Let the three numbers are a, b, c respectively

Given,

Average of the first two numbers = 7

$$\Rightarrow \frac{a+b}{2} = 7$$

$$\Rightarrow a + b = 14 \dots\dots\dots(1)$$

Average of the last two numbers = 10

$$\Rightarrow \frac{b+c}{2} = 10$$

$$\Rightarrow b + c = 20 \dots\dots\dots(2)$$

Average of the first and last number = 14

$$\Rightarrow \frac{a+c}{2} = 14$$

$$\Rightarrow a + c = 28 \dots\dots\dots(3)$$

Adding (1), (2), (3)

$$2a + 2b + 2c = 14 + 20 + 28$$

$$\Rightarrow 2a + 2b + 2c = 62$$

$$\Rightarrow a + b + c = 31$$

$$\text{Average of the three numbers} = \frac{a+b+c}{3} = \frac{31}{3}$$

Hence, the correct answer is Option A

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Question 61

What is the area of an equilateral triangle of side $4\sqrt{3}$ cm?

- A $16\sqrt{3}cm^2$
- B $12\sqrt{3}cm^2$
- C $15\sqrt{3}cm^2$
- D $20\sqrt{3}cm^2$

Answer: B

Explanation:

Given,

Side of the equilateral triangle (a) = $4\sqrt{3}$ cm

∴ Area of the equilateral triangle = $\frac{\sqrt{3}}{4} a^2$

$$= \frac{\sqrt{3}}{4} (4\sqrt{3})^2$$

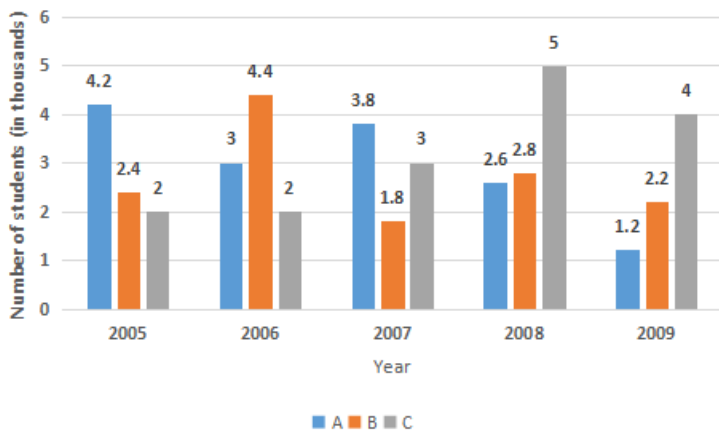
$$= \frac{\sqrt{3}}{4} \times 16 \times 3$$

$$= 12\sqrt{3} \text{ cm}^2$$

Hence, the correct answer is Option B

Question 62

The following graph below shows the number of students (in thousands) who were admitted to three different courses in 5 years in a university. Study the graph and answer the question.



What is the ratio of the number of students who were admitted to course A in the year 2007 to that of students who were admitted to course C in the year 2009?

- A $\frac{23}{20}$
- B $\frac{19}{20}$
- C $\frac{21}{20}$
- D $\frac{9}{20}$

Answer: B

Explanation:

From the graph,

The number of students who were admitted to course A in the year 2007 = 3800

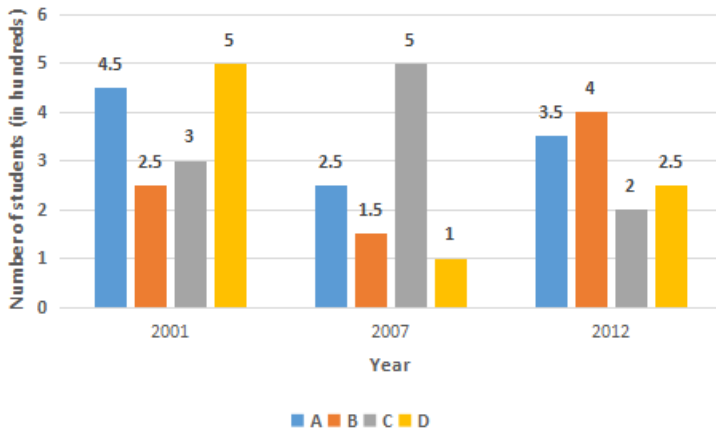
The number of students who were admitted to course C in the year 2009 = 4000

$$\therefore \text{Required ratio} = \frac{3800}{4000} = \frac{38}{40} = \frac{19}{20}$$

Hence, the correct answer is Option B

Question 63

The following bar graph shows the number of students (in hundreds) who have opted for different courses A, B, C and D in 3 years in a college. Study the graph and answer the question.



In the year 2007, the average number of students across the four courses is (in hundreds):

- A 2.5
- B 1.5
- C 2.2
- D 2.7

Answer: A

Explanation:

From the bar graph,

In the year 2007, the average number of students across the four courses is (in hundreds) = $\frac{2.5+1.5+5+1}{4} = \frac{10}{4} = 2.5$

Hence, the correct answer is Option A

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Question 64

The value of x , if $2 \sin^2 x = 2 - 3 \sin x$, is:

- A $\frac{\pi}{6}$
- B $\frac{\pi}{4}$
- C $\frac{\pi}{3}$
- D $\frac{\pi}{2}$

Answer: A

Explanation:

Given, $2 \sin^2 x = 2 - 3 \sin x$

$$\Rightarrow 2 \sin^2 x + 3 \sin x - 2 = 0$$

$$\Rightarrow 2 \sin^2 x - \sin x + 4 \sin x - 2 = 0$$

$$\Rightarrow \sin x (2 \sin x - 1) + 2 (2 \sin x - 1) = 0$$

$$\Rightarrow (2 \sin x - 1) (\sin x + 2) = 0$$

$$\Rightarrow 2 \sin x - 1 = 0 \text{ or } \sin x + 2 = 0$$

$$\Rightarrow \sin x = \frac{1}{2} \text{ or } \sin x = -2$$

$\sin x = -2$ is not possible

$$\Rightarrow \sin x = \frac{1}{2}$$

$$\Rightarrow \sin x = \sin \frac{\pi}{6}$$

$$\Rightarrow x = \frac{\pi}{6}$$

Hence, the correct answer is Option A

Question 65

If the numerator of a fraction is increased by 15% and denominator is decreased by 20%, then the fraction, so obtained, is $\frac{17}{65}$. What is the original fraction?

A $\frac{272}{1495}$

B $\frac{267}{1495}$

C $\frac{278}{1495}$

D $\frac{281}{1495}$

Answer: A

Explanation:

Let the numerator of the fraction = x

Denominator of the fraction = y

Numerator when increased by 15% = $\frac{115}{100}x$

Denominator when decreased by 20% = $\frac{80}{100}y$

Given, new fraction = $\frac{17}{65}$

$$\Rightarrow \frac{\frac{115}{80}x}{100y} = \frac{17}{65}$$

$$\Rightarrow \frac{115x}{80y} = \frac{17}{65}$$

$$\Rightarrow \frac{x}{y} = \frac{17 \times 80}{65 \times 115}$$

$$\Rightarrow \frac{x}{y} = \frac{272}{1495}$$

\therefore The original fraction = $\frac{x}{y} = \frac{272}{1495}$

Hence, the correct answer is Option A

Question 66

At which rate of simple interest does an amount become double in 12 years?

A $7\frac{4}{5}$

B $7\frac{1}{2}$

C 8

D $8\frac{1}{3}$

Answer: D

Explanation:

Given,

Time (T) = 12 years

Let the Principal amount = P

Rate of Simple Interest = R

According to the Problem,

Amount = 2P

\Rightarrow Principal + Simple Interest = 2P

$$\Rightarrow P + \frac{P \times T \times R}{100} = 2P$$

$$\Rightarrow \frac{P \times 12 \times R}{100} = 2P - P$$

$$\Rightarrow \frac{P \times 12 \times R}{100} = P$$

$$\Rightarrow R = \frac{100}{12}$$

$$\Rightarrow R = 8\frac{1}{3}\%$$

Hence, the correct answer is Option D

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Question 67

A person walks a distance from point A to B at 15 km/h, and from point B to A at 30 km/h. If he takes 3 hours to complete the journey, then what is the distance from point A to B?

- A 15 km
- B 30 km
- C 25 km
- D 10 km

Answer: B

Explanation:

Let the distance between point A and B = 'd' km

Speed of the person from point A to B = 15 km/h

Time taken by the person to walk from point A to B = $\frac{d}{15}$ hours

Speed of the person from point B to A = 30 km/h

Time taken by the person to walk from point B to A = $\frac{d}{30}$ hours

Total time taken to complete the journey = 3 hours

$$\Rightarrow \frac{d}{15} + \frac{d}{30} = 3$$

$$\Rightarrow \frac{2d+d}{30} = 3$$

$$\Rightarrow \frac{3d}{30} = 3$$

$$\Rightarrow d = 30 \text{ km}$$

\therefore Distance from point A to B = 30 km

Hence, the correct answer is Option B

Question 68

What is the value of $\cot 35^\circ \cot 40^\circ \cot 45^\circ \cot 50^\circ \cot 55^\circ$?

- A -1
- B 2
- C 1
- D 0

Answer: C

Explanation:

$$\begin{aligned} \cot 35^\circ \cot 40^\circ \cot 45^\circ \cot 50^\circ \cot 55^\circ &= \cot 35^\circ \cot 40^\circ \cot 45^\circ \cot (90 - 40)^\circ \cot (90 - 35)^\circ \\ &= \cot 35^\circ \cot 40^\circ \cot 45^\circ \tan 40^\circ \tan 35^\circ \\ &= (\cot 35^\circ \tan 35^\circ) (\cot 40^\circ \tan 40^\circ) \cot 45^\circ \\ &= (1) (1) (1) \\ &= 1 \end{aligned}$$

Hence, the correct answer is Option C

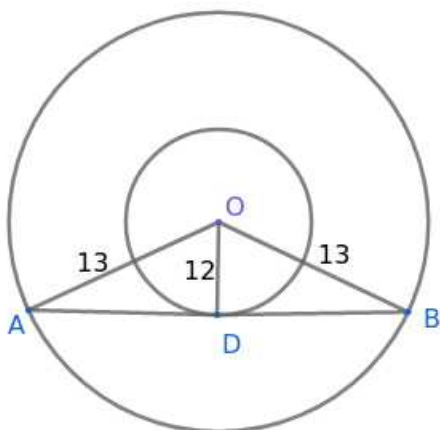
Question 69

If two concentric circles are of radii 13 cm and 12 cm, respectively, then the length of the chord of the larger circle which touches the smaller circle is:

- A 35 cm
- B 10 cm
- C 15 cm
- D 25 cm

Answer: B

Explanation:



Given, radii of two concentric circles are 13cm and 12cm

From the figure,

Using Pythagoras theorem,

$$OD^2 + DB^2 = OB^2$$

$$\Rightarrow 12^2 + DB^2 = 13^2$$

$$\Rightarrow 144 + DB^2 = 169$$

$$\Rightarrow DB^2 = 25$$

$$\Rightarrow DB = 5\text{cm}$$

\therefore Length of the chord of the larger circle which touches the smaller circle = $AB = 2BD = 2(5) = 10\text{cm}$

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Question 70

What will be the area of a circle whose radius is $\sqrt{5}$ cm ?

A 5π cm²

B 2π cm²

C π cm²

D 3π cm²

Answer: A

Explanation:

Given,

Radius of the Circle (r) = $\sqrt{5}$ cm

Area of the Circle = $\pi r^2 = \pi (\sqrt{5})^2 = 5\pi$ cm²

Question 71

If a positive integer 'n' is divisible by 3, 5 and 7, then what is the next larger integer divisible by all these numbers?

A $n + 21$

B $n + 110$

C $n + 105$

D $n + 35$

Answer: C

Explanation:

Least Common Multiple (LCM) of 3, 5, 7 = 105

\therefore All the numbers which are divisible by 3, 5, 7 are multiples of 105

If 'n' is divisible by 3, 5, 7 then the next integer which is divisible by all these numbers = $n + \text{LCM} = n + 105$

Hence, the correct answer is Option C

Question 72

What is the value of

$$(9 + 3 - 16 \div 4 + 10) + (3 + 5 \times 2 \div 10) \times (18 - 4 \text{ of } 5)?$$

A 15

B 5

C 8

D 10

Answer: D

Explanation:

$$(9 + 3 - 16 \div 4 + 10) + (3 + 5 \times 2 \div 10) \times (18 - 4 \text{ of } 5)$$

$$= (9 + 3 - 4 + 10) + (3 + 5 \times \frac{1}{5}) \times (18 - 20)$$

$$= (18) + (3 + 1) \times (-2)$$

$$= 18 + 4 \times (-2)$$

$$= 18 - 8$$

$$= 10$$

Hence, the correct answer is Option D

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Question 73

A alone can complete a task in 3 days and B alone can complete the same task in 6 days. In how many days can A and B complete it together?

A 3

B 6

C 1

D 2

Answer: D

Explanation:

Let the total work be W

Number of days required for A alone to complete the task = 3

$$\Rightarrow \text{Work done by A in 1 day} = \frac{W}{3}$$

Number of days required for B alone to complete the task = 6

$$\Rightarrow \text{Work done by B in 1 day} = \frac{W}{6}$$

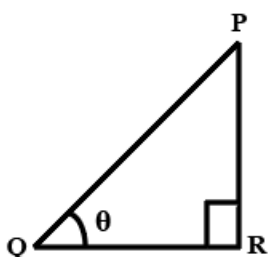
$$\text{Work done by A and B in 1 day} = \frac{W}{3} + \frac{W}{6} = \frac{W}{2}$$

$$\text{Number of days required for A and B together to complete the task} = \frac{W}{\frac{W}{2}} = 2$$

Hence, the correct answer is Option D

Question 74

In the given figure, if PQ = 13 cm and PR = 12 cm, then the value of $\sin \theta + \tan \theta = ?$



A $\frac{218}{5}$

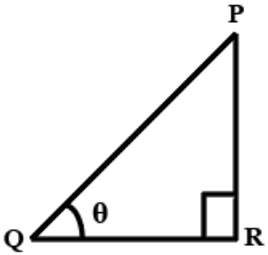
B $\frac{216}{65}$

C $\frac{213}{5}$

D $\frac{216}{13}$

Answer: B

Explanation:



Given, $PQ = 13$ cm and $PR = 12$ cm

By Pythagoras theorem,

$$QR^2 + PR^2 = PQ^2$$

$$\Rightarrow QR^2 + 12^2 = 13^2$$

$$\Rightarrow QR^2 + 144 = 169$$

$$\Rightarrow QR^2 = 25$$

$$\Rightarrow QR = 5 \text{ cm}$$

From the right angled triangle PQR ,

$$\sin \theta = \frac{PR}{PQ}$$

$$\Rightarrow \sin \theta = \frac{5}{13}$$

$$\tan \theta = \frac{PR}{QR}$$

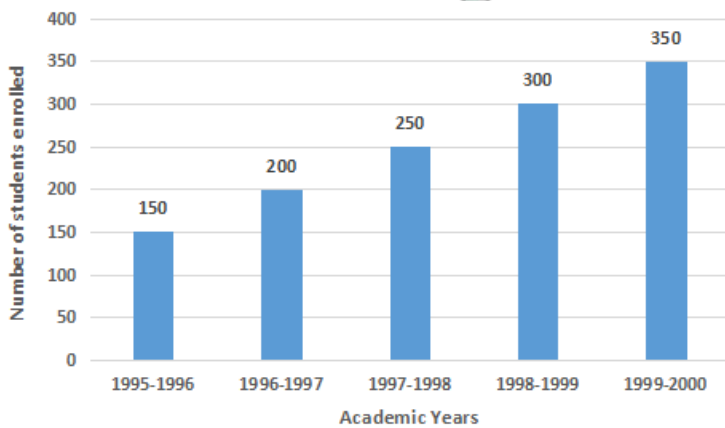
$$\Rightarrow \tan \theta = \frac{5}{12}$$

$$\therefore \sin \theta + \tan \theta = \frac{12}{13} + \frac{5}{12} = \frac{60+156}{65} = \frac{216}{65}$$

Hence, the correct answer is Option B

Question 75

Study the graph and answer the question that follows.



What is the ratio of enrollment during 1995 - 1996 to the enrollment during 1998 - 1999?

A 1 : 3

B 2 : 1

C 1 : 2

D 3 : 1

Answer: C

Explanation:

From the graph,

Enrollment during 1995 - 1996 = 150

Enrollment during 1998 - 1999 = 300

∴ Required ratio = 150 : 300 = 1 : 2

Hence, the correct answer is Option C

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Instructions

For the following questions answer them individually

Question 76

India's 'National Sports Day' coincides with the birthday of which sports person?

A Syed Abdul Rahim

B Kapil Dev

C Milkha Singh

D Dhyan Chand

Answer: D

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Question 77

Which of the following plates has the slowest rate of movement at less than 2.5 cm/year?

A Mid-Atlantic Ridge

B Arctic Ridge

C North American Plate

D East Pacific Rise

Answer: B

Question 78

Who was India's first Chief of Defence Staff?

A General Arjan Singh

B General Vijay Kumar Singh

- C General Bipin Rawat
- D General Manoj Mukund Naravane

Answer: C

Question 79

Which application was launched by Reserve Bank of India in January 2020 to help visually challenged people identify new currency notes?

- A OLTAS
- B NEFT
- C MANI
- D DRI

Answer: C

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Question 80

Through which of the following states does the Tropic of Cancer run?

- A Manipur
- B Nagaland
- C Assam
- D Mizoram

Answer: D

Question 81

Who was the youngest Member of Parliament to be elected in 2019?

- A Nusrat Jahan
- B Mimi Chakraborty
- C Chandrani Murmu
- D Tejasvi Surya

Answer: C

Question 82

Which of the following is a popular dance form of Lakshadweep island?

- A Kolkali
- B Koli
- C Kathak

D Kuchipudi

Answer: A

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Question 83

A piece of land that is almost entirely surrounded by water but connected to the main land on one side is called _____.

A Island

B Strait

C Peninsula

D Isthmus

Answer: C

Question 84

A/an _____ is a central server on a computer network that enables connected clients to access the server's storage capacities.

A file server

B print server

C web server

D application server

Answer: A

Question 85

Which of the following is NOT a central economic problem, solved by the Production Possibility Curve (PPC)?

A Full utilisation of resources

B Economic efficiency

C Sustainable consumption

D Economic growth

Answer: C

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Question 86

The fifth incarnation of Vishnu is known as:

A Vamana

B Narasimha

C Krishna

D Varaha

Answer: A

Question 87

Which stadium was renamed as Arun Jaitley Stadium in 2019?

- A Green Park
- B Eden Gardens
- C Wankhede Stadium
- D Feroz Shah Kotla Ground

Answer: D

Question 88

The capital of which empire was NOT in south India?

- A Chola
- B Pallava
- C Pala
- D Chera

Answer: C

SSC CGL Previous Papers (DOWNLOAD PDF)

Question 89

'Leukopenia' is an abnormal _____.

- A increase in white blood cells
- B decrease in red blood cells
- C increase in red blood cells
- D decrease in white blood cells

Answer: D

Question 90

'Piklihal' and 'Utnur' are important _____ sites.

- A Neolithic
- B Megalithic
- C Monolithic
- D Paleolithic

Answer: A

Question 91

Pineapple is a _____ plant.

- A Hygrophyte
- B Mesophyte
- C Hydrophyte
- D Xerophyte

Answer: D

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Question 92

As per the eighth Schedule of the Constitution of India, how many languages are referred to as scheduled languages?

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

Answer: A

Question 93

India got its first 3D Smart Traffic Signal System in August 2019. This system was designed by students of_____.

- A Chitkara University
- B IISC-Bangalore
- C I.K. Gujral Punjab Technical University
- D IIT-Mumbai

Answer: A

Question 94

Who among the following was dropped from the All India Council of Sports (AICS) in January 2020 for not being "active" enough?

- A K Srikanth
- B Pullela Gopichand
- C Viswanathan Anand
- D Harbajan Singh

Answer: C

SSC CHSL Important Questions and Answers (Download PDF)

Question 95

Who is the author of the book 'Reset: Regaining India's Economic Legacy'?

- A Abhijeet Banerjee
- B Raghuram Rajan
- C Suketu Mehta
- D Subramanian Swamy

Answer: D

Question 96

Which of the following statements is NOT correct about Rajya Sabha?

- A It can amend a money bill.
- B Twelve of its members are nominated by the President.
- C It has powers that protect the rights of states against the union.
- D It is the upper house of the Parliament of India.

Answer: A

Question 97

Who among the following won the 'JCB Prize for Literature 2019'?

- A Akkitham Achuthan Namboothiri
- B Madhuri Vijay
- C Shanta Gokhale
- D Manu S Pillai

Answer: B

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Question 98

Third generation computers used:

- A Transistors
- B integrated circuits
- C vacuum tubes
- D VLSI technique

Answer: B

Question 99

1° latitude is equal to approximately _____ km.

A 122

B 145

C 111

D 133

Answer: C

Question 100

Carbon and energy requirements of autotrophic organisms are fulfilled by the process of:

A Biosynthesis

B Photosynthesis

C Photoautotrophs

D Hibernation

Answer: B

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