



SSC CHSL 20th October 2020 Shift-1

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English Language (Basic Knowledge)

Instructions

For the following questions answer them individually

Question 1

Select the correct passive form of the given sentence.

Gulliver easily pulled all the warships of the enemy after him.

- A All the warships of the enemy had been easily pulled by Gulliver after him.
- B All the warships of the enemy were easily pulled by Gulliver after him.
- C All the warships of the enemy were being easily pulled by Gulliver after him.
- D All the warships of Gulliver were easily pulled by the enemy after him.

Answer: B

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Question 2

Select the INCORRECTLY spelt word.

- A Gallop
- B Gallary
- C Galley
- D Gallant

Answer: B

Question 3

Select the most appropriate ANTONYM of the given word.

CANDID

- A Truthful
- B Frank
- C Genuine
- D Devious

Answer: D

Question 4

Select the most appropriate word to fill in the blank in the given sentence.

Order was quickly _____ in the area after the scuffle between the two groups.

- A rebuilt
- B repaired
- C restored

D recovered

Answer: C

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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.

During organised tours, tourists can visit a former Nazi compound 40 kilometres (1)_____ Berlin called the 'Forbidden City'. Twenty thousand people (2)_____ here every year to learn about Nazi military history. The Nazis (3)_____ militarily active at the compound, (4)_____ was kept secret in a forest and behind a fence. The Nazis (5)_____ much of World War II from here.

Question 5

Select the most appropriate option for blank number 1.

A into

B in

C at

D from

Answer: D

Question 6

Select the most appropriate option for blank number 2.

A watch

B call

C roam

D visit

Answer: D

Question 7

Select the most appropriate option for blank number 3.

A had

B were

C was

D are

Answer: B

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Question 8

Select the most appropriate option for blank number 4.

- A which
- B what
- C who
- D whom

Answer: A

Question 9

Select the most appropriate option for blank number 5.

- A planned
- B fought
- C started
- D carried

Answer: A

Instructions

For the following questions answer them individually

Question 10

Select the most appropriate meaning of the given idiom.

Look after

- A Take care of
- B Resemble
- C Scold
- D Search for

Answer: A

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Question 11

Select the most appropriate meaning of the given idiom.

Make a beeline

- A Go straight to
- B Be crazy
- C Stand in a queue
- D Remain busy

Answer: A

Question 12

Select the INCORRECTLY spelt word.

- A Serious
- B Curious
- C Gorgeous
- D Ambitious

Answer: D

Question 13

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

A ruler with total power over a country, typically one who has obtained control by force

- A Democrat
- B Dictator
- C Protector
- D Traitor

Answer: B

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Question 14

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

The publics are not satisfied with the new act.

- A The publics are
- B not satisfied
- C new act
- D with the

Answer: A

Question 15

Select the most appropriate synonym of the given word.

RECONCILE

- A Refuse
- B Resolve
- C Scatter
- D Agitate

Answer: B

Question 16

Select the correct indirect form of the given sentence.

I said to Kirti, "These plants will take about two months to flower."

- A I told Kirti that those plants will be taking about two months to flower.
- B I told Kirti that those plants would take about two months to flower.
- C I told Kirti that those plants take about two months to flower.
- D I told Kirti that these plants will take about two months to flower.

Answer: B

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Question 17

Select the most appropriate synonym of the given word.

SALVAGE

- A Save
- B Hurt
- C Lose
- D Waste

Answer: A

Question 18

Select the most appropriate ANTONYM of the given word.

CONVENIENCE

- A Enjoyment
- B Assistance
- C Hindrance
- D Satisfaction

Answer: C

Question 19

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

- A. The cable was thick as pack-thread, and the bars were the size of knitting needles.
- B. Then I made fifty hooks by twisting three bars together at a time.
- C. I ordered a great quantity of strong cable and bars of iron.
- D. I twisted the cables together and made fifty strong cords.

- A CABD
- B ADCB
- C CADB
- D ABDC

Answer: C

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Question 20

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

Flesh eating animal

- A Herbivore
- B Carnivore
- C Insectivore
- D Omnivore

Answer: B

Question 21

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 switching off the light, he went off to sleep.

- A switching off a light
- B he has switched off the light
- C being switched off the light
- D No improvement

Answer: D

Question 22

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

- A. In December 2019, Typhoon Kammuri came to the Philippines.
- B. They closed schools and evacuated hundreds of thousands of people from their homes.
- C. Officials closed the international airport in the capital city of Manila for 12 hours.
- D. It flooded streets and damaged many houses and power lines.

- A CBAD
- B ADCB
- C ABCD
- D CBDA

Answer: B

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Question 23

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

When the boys were playing the match, it suddenly starts raining.

- A When the boys

- B it suddenly
- C starts raining
- D were playing the match

Answer: C

Question 24

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'.

While my parents talked to the visitor, I made tea in the kitchen.

- A parents have talked
- B parents are talking
- C parents were talking
- D No improvement

Answer: C

Question 25

Select the most appropriate word to fill in the blank in the given sentence.

He _____ his studies even after leaving college and finally got a Ph.D. degree.

- A pursued
- B carried
- C persisted
- D sought

Answer: A

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General Intelligence

Instructions

For the following questions answer them individually

Question 26

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

- A Iodine
- B Bromine
- C Fluorine
- D Iron

Answer: D

Explanation:

Iodine, Fluorine, Bromine are non-metals whereas Iron is a metal.

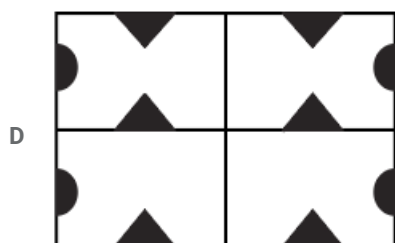
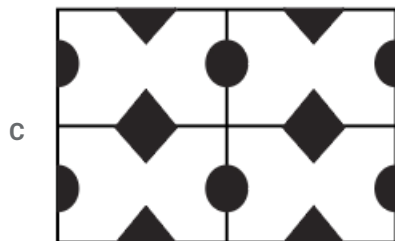
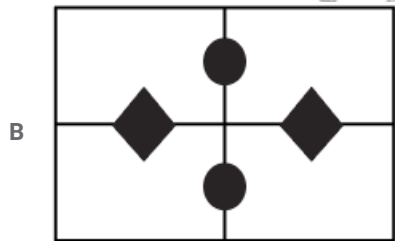
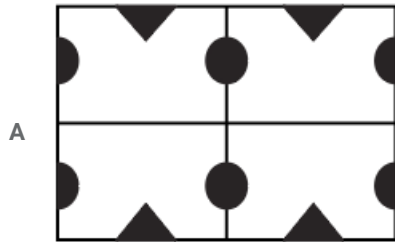
∴ Iron is the odd one among the given words.

Hence, the correct answer is Option D

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Question 27

A paper is folded and cut as shown in the following figure. How will this paper look when unfolded?



Answer: C

Explanation:

When the paper is cut and unfolded, the pattern of cutting will be similar on the four parts of the paper as shown below



Hence, the correct answer is Option C

Question 28

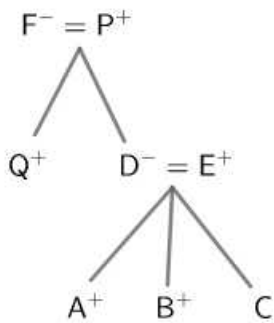
A and B are the brothers of C. B is the son of D and E. D is the daughter of F. P is the father-in-law of E. Q is the son of F. What is the relationship of A to P?

- A Grandson
- B Son
- C Daughter
- D Father

Answer: A

Explanation:

According to the problem, the family tree is



∴ A is the grandson of P.

Hence, the correct answer is Option A

Question 29

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



- A J
- B K
- C S
- D R

Answer: A

Explanation:

The logic here is

$$G + L = 7 + 12 = 19$$

$$A + R = 1 + 18 = 19$$

The sum of values of the opposite letters is 19.

$$\text{Similarly, } I + ? = 19$$

$$\Rightarrow 9 + ? = 19$$

$$\Rightarrow ? = 10 = J$$

∴ Required letter = J

Hence, the correct answer is Option A

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Question 30

Which of the following options is NOT an example of a number triad with the following properties?

1. Sum of the digits of the third number is twice the sum of the digits of the first number.
2. Sum of the digits of the second number is thrice the sum of the digits of the first number.

A (201, 702, 303)

B (400, 660, 800)

C (200, 600, 300)

D (111, 207, 222)

Answer: C

Explanation:

By Trial and Error method,

Option A

Sum of the digits of the first number = $2 + 0 + 1 = 3$

Sum of the digits of the second number = $7 + 0 + 2 = 9$

Sum of the digits of the third number = $3 + 0 + 3 = 6$

(201, 702, 303) follows the given properties. Hence option A is incorrect.

Option B

Sum of the digits of the first number = $4 + 0 + 0 = 4$

Sum of the digits of the second number = $6 + 6 + 0 = 12$

Sum of the digits of the third number = $8 + 0 + 0 = 8$

(400, 660, 800) follows the given properties. Hence option B is incorrect.

Option C

Sum of the digits of the first number = $2 + 0 + 0 = 2$

Sum of the digits of the second number = $6 + 0 + 0 = 6$

Sum of the digits of the third number = $3 + 0 + 0 = 3$

Sum of the digits of the third number is not twice the sum of the digits of the first number.

Hence, the correct answer is Option C

Question 31

Select the correct equation when the signs '+' and '×' and the numbers '4' and '8' are interchanged.

A $12 \times 4 + 8 = 34$

B $6 + 8 \times 4 = 38$

C $2 \times 4 + 8 = 34$

D $4 + 8 \times 2 = 32$

Answer: C

Explanation:

By Trial and Error method,

Option A

$$12 + 8 \times 4 = 34$$

$$12 + 32 = 34$$

$$44 = 34$$

Hence Option A is incorrect

Option B

$$6 \times 4 + 8 = 38$$

$$24 + 8 = 38$$

$$32 = 38$$

Hence Option B is incorrect

Option C

$$2 + 8 \times 4 = 34$$

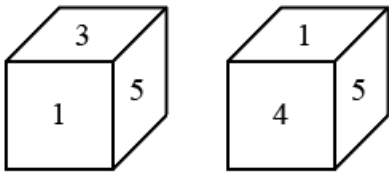
$$2 + 32 = 34$$

$$34 = 34$$

Hence, the correct answer is Option C

Question 32

Two different positions of the same dice are shown. Select the number that will be on the face opposite to the one having '4'.



A 1

B 3

C 6

D 2

Answer: B

Explanation:

From the first position of the dice, 1 and 5 is not opposite to 3

From the second position of the dice, 1 and 5 is not opposite to 4

\Rightarrow 1 and 5 are opposite to opposite to numbers 2 and 6

\Rightarrow The remaining numbers 3 and 4 are opposite to each other

\therefore 3 will be on the face opposite to the one having 4

Hence, the correct answer is Option B

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Question 33

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

Malaria : Parasite :: Stomach ulcers : ?

- A Insects
- B Bacteria
- C Parasites
- D Protozoa

Answer: B

Explanation:

Malaria is caused by Parasite. In the same way Stomach ulcer is caused by Bacteria.

∴ Bacteria is related to Stomach ulcers in the same way Parasite is related to Malaria.

Hence, the correct answer is Option B

Question 34

Select the correct mirror image of the given figure when the mirror is placed to the right side of the figure.



A

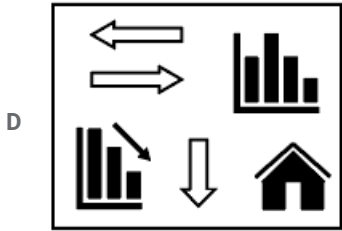


B



C





Answer: C

Explanation:

When the mirror is placed on the right side 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 top and bottom direction. There won't be change in shape of the figure.

The arrow which is on the bottom left facing down will be on the bottom right facing down in the mirror image.

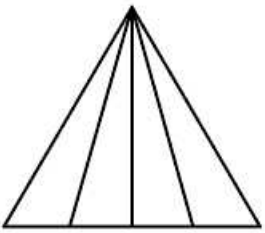
∴ The mirror image of the given figure is



Hence, the correct answer is Option C

Question 35

Find the number of triangles in the following figure.



A 14

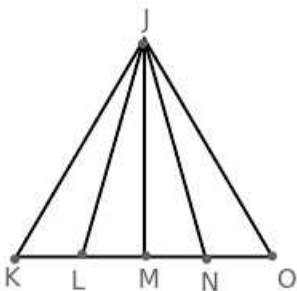
B 12

C 10

D 8

Answer: C

Explanation:



The different triangles in the given figure are JKL, JLM, JMN, JNO, JKM, JLN, JMO, JKN, JLO, JKO

∴ Number of triangles in the given figure = 10

Hence, the correct answer is Option C

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Question 36

In a certain code language, PARK is coded as 6739, ROAD is coded as 3574, POND is coded as 6584 and LANE is coded as 2781. How will LORD be coded as in that language?

- A 2534
- B 7432
- C 5213
- D 5304

Answer: A

Explanation:

In the code language,

PARK is coded as 6739

P → 6

A → 7

R → 3

K → 9

ROAD is coded as 3574

R → 3

O → 5

A → 7

D → 4

POND is coded as 6584

P → 6

O → 5

N → 8

D → 4

LANE is coded as 2781

L → 2

A → 7

N → 8

E → 1

Particular values are assigned for different letters.

Similarly, LORD is coded as 2534 in the code language.

Hence, the correct answer is Option A

Question 37

In a certain code language, VICTORY is written as XGERQPA. How will KINDLE be written as in that language?

- A MGPBNC
- B BEDRVH
- C IKLFJG
- D SOWNEQ

Answer: A

Explanation:

Given, VICTORY is written as XGERQPA in the code language

The logic here is

22	9	3	20	15	18	25
V	I	C	T	O	R	Y
+2	-2	+2	-2	+2	-2	+2
X	G	E	R	Q	P	A
24	7	5	18	17	16	27

Similarly,

11	9	14	4	12	5
K	I	N	D	L	E
+2	-2	+2	-2	+2	-2
M	G	P	B	N	C
13	7	16	2	14	3

∴ KINDLE is written as MGPBNC in the code language

Hence, the correct answer is Option A

Question 38

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

29 : 838 :: 14 : ?

- A 199
- B 196
- C 195
- D 193

Answer: D

Explanation:

The logic here is

$$29^2 - 3 = 841 - 3 = 838$$

Second number is the difference of square of first number and 3.

Similarly, fourth number is the difference of square of third number and 3.

$$\Rightarrow \text{Fourth number} = 14^2 - 3 = 196 - 3 = 193$$

\therefore 193 is related to 14 in the same way 838 is related to 29

Hence, the correct answer is Option D

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Question 39

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 CK

B DP

C ET

D FX

Answer: C

Explanation:

The number of letters between CK = 7

The number of letters between DP = 11

The number of letters between ET = 14

The number of letters between FX = 17

The number of letters between CK, DP, FX is odd whereas the number of letters between ET is even.

\therefore ET is the odd letter-cluster among the given letter-clusters.

Hence, the correct answer is Option C

Question 40

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

BDF, DHL, FLR, ?

A HPX

B IQY

C HPY

D HOX

Answer: A

Explanation:

The logic here is

$$B + 2 = D \rightarrow D + 2 = F \rightarrow F + 2 = H$$

$$D + 4 = H \rightarrow H + 4 = L \rightarrow L + 4 = P$$

$$F + 6 = L \rightarrow L + 6 = R \rightarrow R + 6 = X$$

Similarly, the next letter-cluster in the series is HPX

Hence, the correct answer is Option A

Question 41

'Myopia' is related to 'Eye' in the same way as 'Pyorrhoea' is related to '_____':

- A Lung
- B Gums
- C Brain
- D Stomach

Answer: B

Explanation:

Myopia is an Eye illness. Similarly, Pyorrhea is a Gum illness.

∴ Myopia is related to Eye in the same way Pyorrhea is related to Gums.

Hence, the correct answer is Option B

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Question 42

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

4 (15) 1; 7 (22) 3; ? (57) 4

- A 16
- B 11
- C 14
- D 12

Answer: B

Explanation:

The logic here is

$$4^2 - 1^3 = 16 - 1 = 15 \rightarrow \text{left number}^2 - \text{right number}^3 = \text{middle number}$$

$$7^2 - 3^3 = 49 - 27 = 22 \rightarrow \text{left number}^2 - \text{right number}^3 = \text{middle number}$$

Let the required number = a

$$\text{Similarly, } a^2 - 4^3 = 57$$

$$\Rightarrow a^2 - 64 = 57$$

$$\Rightarrow a^2 = 121$$

$$\Rightarrow a = 11$$

∴ Required number = 11

Hence, the correct answer is Option B

Question 43

Identify the number that does NOT belong to the following series.

1, 4, 9, 15, 25, 36

- A 4
- B 9
- C 15

D 25

Answer: C

Explanation:

The given series is 1, 4, 9, 15, 25, 36

The logic here is

$$1^2 = 1$$

$$2^2 = 4$$

$$3^2 = 9$$

$$4^2 = 16$$

$$5^2 = 25$$

$$6^2 = 36$$

16 should be in the place of 15 in the series

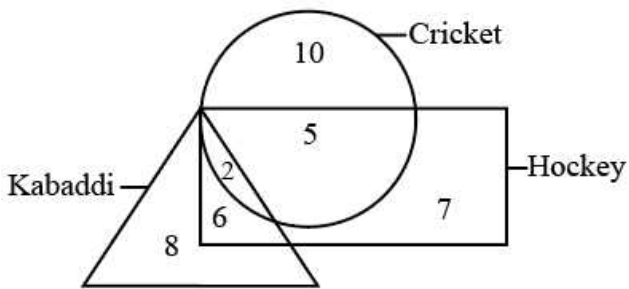
∴ 15 does not belong to the given series

Hence, the correct answer is Option C

Question 44

Observe the following diagram and answer the question.

Find the number of students who play any two of the three sports.



A 9

B 15

C 11

D 13

Answer: C

Explanation:

From the diagram,

Number of students who play any two of the three sports = Intersection of circle and rectangle + Intersection of triangle and rectangle = $5 + 6 = 11$

Hence, the correct answer is Option C

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Question 45

Four number triads have been given, out of which three are alike in some manner and one is different. Select the number triad that is different from the rest.

A (273, 546, 819)

B (291, 438, 657)

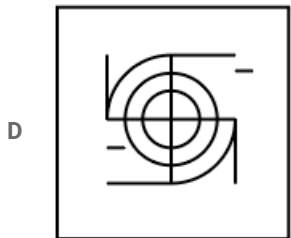
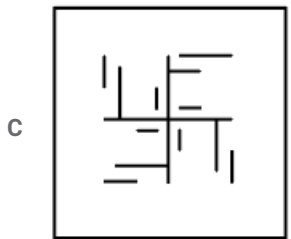
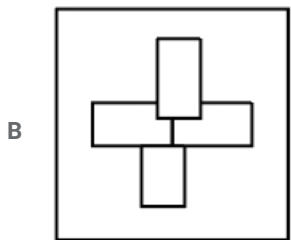
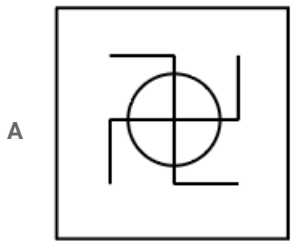
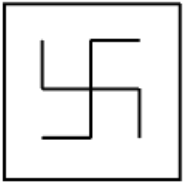
C (326, 654, 981)

D (192, 384, 576)

Answer: C

Question 46

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



Answer: D

Explanation:

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



Hence, the correct answer is Option D

Question 47

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. Most teachers are women.
2. Some women are managers.

Conclusions:

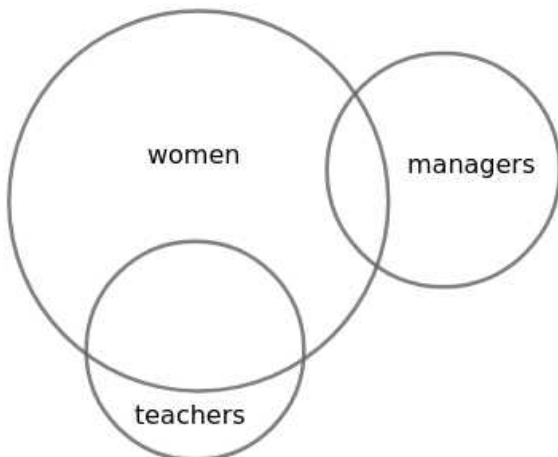
- I. Some managers are women.
- II. Some teachers are managers.

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

Answer: B

Explanation:

The basic diagram for the given statements is



- I. Some managers are women

From the basic diagram, some managers are women. Hence conclusion I follows.

- II. Some teachers are managers

From the basic diagram, no teacher is manager. Hence conclusion II do not follow.

∴ Only conclusion I follows the given statements.

Hence, the correct answer is Option B

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Question 48

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

6, 10, 18, 34, ?

- A 68
- B 64
- C 66
- D 70

Answer: C

Explanation:

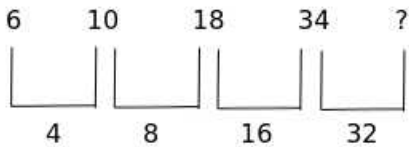
The given series is 6, 10, 18, 34, ?

$$10 - 6 = 4$$

$$18 - 10 = 8$$

$$34 - 18 = 16$$

The logic here is the difference between the numbers is twice the previous difference.



The next difference should be 32.

Let the required number be a

$$\Rightarrow a - 34 = 32$$

$$\Rightarrow a = 32 + 34$$

$$\Rightarrow a = 66$$

\therefore The required number is 66.

Hence, the correct answer is Option C

Question 49

While writing all the natural numbers from 1 to 100, how many times do we write 6?

- A 20
- B 18
- C 21
- D 19

Answer: A

Explanation:

From the Natural numbers 1 to 100,

The number of times that 6 will be written in units place = 10

The number of times that 6 will be written in tens place = 10

\therefore Total number of times that 6 will be written from 1 to 100 = 10 + 10 = 20

Hence, the correct answer is Option A

Question 50

Select the correct mirror image of the given figure when the mirror is placed to the right side of the figure.

SEA

A SEV

B AƎ2

C AES

D AES

Answer: B

Explanation:

When the mirror is placed on the right side 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 top and bottom direction. There won't be change in shape of the figure.

The letter S which is on the left of the figure will be on the right in the mirror image.

The letter A which is on the right of the figure will be on the left in the mirror image.

The letter E which is open towards right will be open towards left in the mirror image.

∴ The mirror image of the given figure is

AƎ2

Hence, the correct answer is Option B

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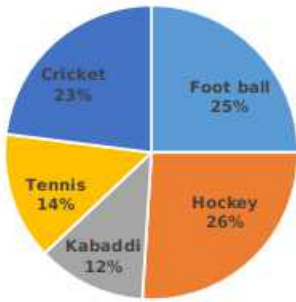
Quantitative Aptitude(Basic Arithmetic Skill)

Instructions

For the following questions answer them individually

Question 51

The given pie-chart represents the percentage of students enrolled in five different sports. The total number of students is 2800.



If 24 students playing cricket are shifted to Kabaddi, then find the new ratio of the number of students in Cricket to those in Kabaddi.

- A 31 : 18
- B 30 : 17
- C 31 : 16
- D 30 : 13

Answer: A

Explanation:

Given, Total number of students = 2800

From the pie-chart,

$$\text{Number of students enrolled for Cricket} = \frac{23}{100} \times 2800 = 644$$

$$\text{Number of students enrolled for Kabaddi} = \frac{12}{100} \times 2800 = 336$$

After 24 students playing cricket are shifted to Kabaddi,

$$\text{Number of students playing Cricket} = 644 - 24 = 620$$

$$\text{Number of students playing Kabaddi} = 336 + 24 = 360$$

$$\therefore \text{The new ratio of the number of students in Cricket to those in Kabaddi} = 620 : 360 = 31 : 18$$

Hence, the correct answer is Option A

SSC CGL Free Mock Test (Latest Pattern)

Question 52

Malti bought a TV for ₹ 8,800 including GST at 10%. What is the original cost of the TV?

- A ₹8,800
- B ₹8,000
- C ₹7,920
- D ₹9,600

Answer: B

Explanation:

Let the original cost of the TV = C

$$\text{Cost of TV with 10\% GST} = \frac{110}{100} C$$

$$\text{Given, Cost of TV with 10\% GST} = ₹ 8,800$$

$$\Rightarrow {}^{110}C = 8800$$

$$\Rightarrow C = 8000$$

\therefore The original cost of the TV = ₹ 8,000

Hence, the correct answer is Option B

Question 53

If $x^3 + y^3 = 16$ and $x + y = 4$, then the value of $x^4 + y^4$ is:

A 48

B 32

C 64

D 30

Answer: B

Explanation:

Given, $x^3 + y^3 = 16$ and $x + y = 4$

$$\Rightarrow (x + y)(x^2 - xy + y^2) = 16$$

$$\Rightarrow (4)(x^2 + 2xy + y^2 - 3xy) = 16$$

$$\Rightarrow (x + y)^2 - 3xy = 4$$

$$\Rightarrow (4)^2 - 3xy = 4$$

$$\Rightarrow 3xy = 16 - 4$$

$$\Rightarrow 3xy = 12$$

$$\Rightarrow xy = 4$$

$$\therefore x^4 + y^4 = x^4 + y^4 + 2x^2y^2 - 2x^2y^2$$

$$= [x^2 + y^2]^2 - 2(xy)^2$$

$$= [x^2 + y^2 + 2xy - 2xy]^2 - 2(4)^2$$

$$= [(x + y)^2 - 2xy]^2 - 32$$

$$= [(4)^2 - 2(4)]^2 - 32$$

$$= [16 - 8]^2 - 32$$

$$= 64 - 32$$

$$= 32$$

Hence, the correct answer is Option B

Question 54

If ${}^4_3(x^2 + \frac{1}{x^2}) = 110$, find ${}^1_9(x^3 - \frac{1}{x^3})$, where $x > 0$.

A 74

B 76

C 84

D 85

Answer: C

Explanation:

$$\text{Given, } \frac{4}{3} \left(x^2 + \frac{1}{x^2} \right) = 110 \frac{2}{3}$$

$$\Rightarrow \frac{4}{3} \left(x^2 + \frac{1}{x^2} \right) = \frac{332}{3}$$

$$\Rightarrow x^2 + \frac{1}{x^2} = 83$$

$$\Rightarrow x^2 + \frac{1}{x^2} - 2 = 83 - 2$$

$$\Rightarrow \left(x - \frac{1}{x} \right)^2 = 81$$

$$\Rightarrow x - \frac{1}{x} = 9$$

$$\Rightarrow \left(x - \frac{1}{x} \right)^3 = 9^3$$

$$\Rightarrow x^3 - \frac{1}{x^3} - 3 \cdot x \cdot \frac{1}{x} \left(x - \frac{1}{x} \right) = 729$$

$$\Rightarrow x^3 - \frac{1}{x^3} - 3(9) = 729$$

$$\Rightarrow x^3 - \frac{1}{x^3} - 27 = 729$$

$$\Rightarrow x^3 - \frac{1}{x^3} = 756$$

$$\Rightarrow \frac{1}{9} \left(x^3 - \frac{1}{x^3} \right) = \frac{1}{9} (756)$$

$$\Rightarrow \frac{1}{9} \left(x^3 - \frac{1}{x^3} \right) = 84$$

Hence, the correct answer is Option C

SSC CHSL Important Questions and Answers (Download PDF)

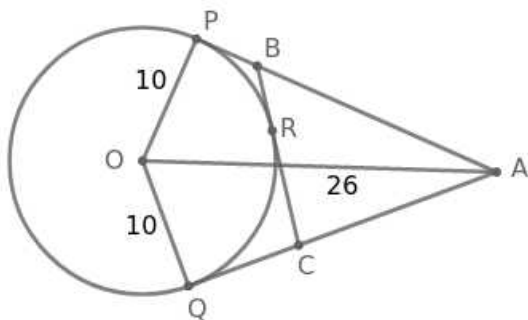
Question 55

A is point at a distance 26 cm from the centre O of a circle of radius 10 cm. AP and AQ are the tangents to the circle at the point of contacts P and Q. If a tangent BC is drawn at a point R lying on the minor arc PQ to intersect AP at B and AQ at C, then the perimeter of $\triangle ABC$ is:

- A 48 cm
- B 46 cm
- C 42 cm
- D 40 cm

Answer: A

Explanation:



Given, A is point at a distance 26 cm from the centre O

Radius of the circle = 10 cm

AP and AQ are tangents to the circle at the point of contacts P and Q

$\Rightarrow AP \perp OP$ and $AQ \perp OQ$

The length of tangents to the circle from an external point are equal.

$\Rightarrow AP = AQ$ (1)

Similarly, $BP = BR$ and $CQ = CR$ (2)

In $\triangle OPA$,

$$OP^2 + AP^2 = AO^2$$

$$\Rightarrow 10^2 + AP^2 = 26^2$$

$$\Rightarrow 100 + AP^2 = 676$$

$$\Rightarrow AP^2 = 576$$

$$\Rightarrow AP = 24 \text{ cm}$$

Perimeter of $\triangle ABC = AB + BC + AC$

$$= AB + BR + CR + AC$$

$$= AB + BP + CQ + AC \text{ [From (2)]}$$

$$= AP + AQ$$

$$= AP + AP \text{ [From (1)]}$$

$$= 2AP$$

$$= 2(24)$$

$$= 48 \text{ cm}$$

Hence, the correct answer is Option A

Question 56

Evaluate: $[7 + 7 \times (7 + 7 \div 7)] + 7 \div 7$.

A 10

B 64

C 5

D 63

Answer: B

Explanation:

$$[7 + 7 \times (7 + 7 \div 7)] + 7 \div 7 = [7 + 7 \times (7 + 1)] + 7 \div 7$$

$$= [7 + 7 \times 8] + 7 \div 7$$

$$= [7 + 56] + 7 \div 7$$

$$= 63 + 7 \div 7$$

$$= 63 + 1$$

$$= 64$$

Hence, the correct answer is Option B

Question 57

ABC and BDE are two equilateral triangles such that D is the mid-point of BC. If the area of triangle ABC is 136 cm^2 , then the area of triangle BDE is equal to:

A 36 cm^2

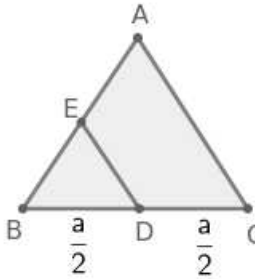
B 38cm^2

C 24cm^2

D 34cm^2

Answer: D

Explanation:



Let the side of the equilateral triangle ABC = a

$$\Rightarrow BC = a$$

D is the mid-point of BC

$$\Rightarrow BD = \frac{a}{2}$$

Side of the equilateral triangle BDE = $\frac{a}{2}$

Given, Area of the equilateral triangle ABC = 136 cm^2

$$\Rightarrow \frac{\sqrt{3}}{4} a^2 = 136$$

$$\therefore \text{Area of the equilateral triangle BDE} = \frac{\sqrt{3}}{4} \left(\frac{a}{2}\right)^2$$

$$= \frac{\sqrt{3}}{4} \times \frac{a^2}{4}$$

$$= \frac{1}{4} \times \frac{\sqrt{3}a^2}{4}$$

$$= \frac{1}{4} \times 136$$

$$= 34\text{ cm}^2$$

Hence, the correct answer is Option D

SSC CHSL Study Material

Question 58

If $\cos 3\theta = \sin(\theta - 34^\circ)$, then the value of θ as an acute angle is:

A 56°

B 17°

C 31°

D 34°

Answer: C

Explanation:

$$\text{Given, } \cos 3\theta = \sin(\theta - 34^\circ)$$

$$\Rightarrow \cos 3\theta = \cos [90 - (\theta - 34^\circ)]$$

$$\Rightarrow \cos 3\theta = \cos [90^\circ - (\theta + 34^\circ)]$$

$$\Rightarrow \cos 3\theta = \cos [124^\circ - \theta]$$

$$\Rightarrow 3\theta = 124^\circ - \theta$$

$$\Rightarrow 4\theta = 124^\circ$$

$$\Rightarrow \theta = 31^\circ$$

Hence, the correct answer is Option C

Question 59

Rahul and Mithun travel a distance of 30 km. The sum of their speeds is 70 km/h and the total time taken by both to travel the distance is 2 hours 6 minutes. The difference between their speeds is:

A 35 km/h

B 20 km/h

C 25 km/h

D 30 km/h

Answer: D

Explanation:

Let the speed of Rahul = s

\Rightarrow Speed of Mithun = $70 - s$

Time taken by Rahul to cover 30 km distance = $\frac{30}{s}$

Time taken by Mithun to cover 30 km distance = $\frac{30}{70-s}$

Given, total time = 2 hours 6 minutes = $2 + \frac{6}{60}$ hours = $2 + \frac{1}{10}$ hours = $\frac{21}{10}$ hours

$$\Rightarrow \frac{30}{s} + \frac{30}{70-s} = \frac{21}{10}$$

$$\Rightarrow \frac{1}{s} + \frac{1}{70-s} = \frac{7}{100}$$

$$\Rightarrow \frac{70-s+s}{s(70-s)} = \frac{7}{100}$$

$$\Rightarrow \frac{70}{70s-s^2} = \frac{7}{100}$$

$$\Rightarrow 70s - s^2 = 1000$$

$$\Rightarrow s^2 - 70s + 1000 = 0$$

$$\Rightarrow s^2 - 50s - 20s + 1000 = 0$$

$$\Rightarrow s(s - 50) - 20(s - 50) = 0$$

$$\Rightarrow (s - 50)(s - 20) = 0$$

$$\Rightarrow s - 50 = 0 \text{ or } s - 20 = 0$$

$$\Rightarrow s = 50 \text{ km/h or } s = 20 \text{ km/h}$$

When speed of Rahul = 50 km/h, speed of mithun = 20 km/h

When speed of Rahul = 20 km/h, speed of mithun = 50 km/h

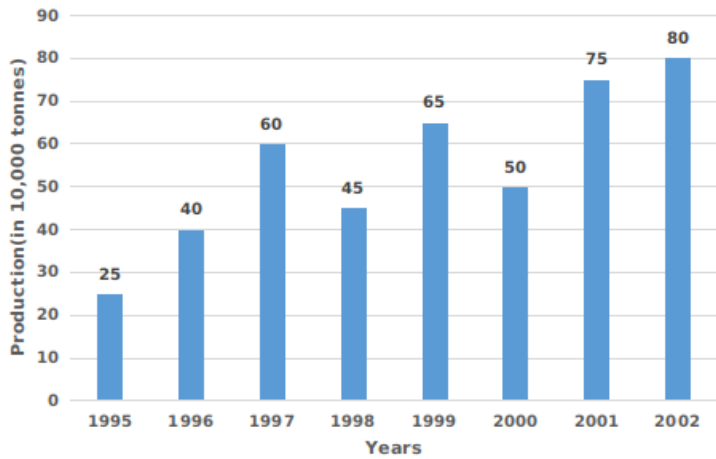
\therefore Difference between their speeds = 30 km/h

Hence, the correct answer is Option D

Question 60

Study the given bar chart and answer the question that follows.

Production of Fertilizers by a Company (in 10,000 tonnes) Over the Years



What was the approximate percentage increase in the production of fertilizers from 1998 to 1999?

- A 44.4%
- B 50%
- C 40%
- D 48.4%

Answer: A

Explanation:

From the bar chart,

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

Production of fertilizers by the company (in 10,000 tonnes) in 1999 = 65

Increase in the production of fertilizers of the company from 1998 to 1999 = $65 - 45 = 20$

\therefore Required percentage = $\frac{20}{45} \times 100 = 44.44\%$

Hence, the correct answer is Option A

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Question 61

If $\sqrt{3} \cos \theta = \sin \theta$, then the value of $\frac{4 \sin^2 \theta - 5 \cos \theta}{3 \cos \theta + 1}$ is:

- A $\frac{1}{4}$
- B $\frac{1}{5}$
- C 5
- D $\frac{2}{5}$

Answer: B

Explanation:

Given, $\sqrt{3} \cos \theta = \sin \theta$

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

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

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

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

$$\therefore \frac{4 \sin^2 \theta - 5 \cos \theta}{3 \cos \theta + 1} = \frac{4 \sin^2 60^\circ - 5 \cos 60^\circ}{3 \cos 60^\circ + 1}$$

$$= \frac{4 \left(\frac{\sqrt{3}}{2}\right)^2 - 5 \left(\frac{1}{2}\right)}{3 \left(\frac{1}{2}\right) + 1}$$

$$= \frac{4 \left(\frac{3}{4}\right) - \frac{5}{2}}{\frac{3}{2} + 1}$$

$$= \frac{3 - \frac{5}{2}}{2}$$

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

$$= \frac{1}{5}$$

Hence, the correct answer is Option B

Question 62

In an isosceles triangle $\triangle ABC$ with $AB = AC$ and AD is perpendicular to BC , if $AD = 6$ cm and the perimeter of $\triangle ABC$ is 36 cm, then the area of $\triangle ABC$ is:

A 54 cm^2

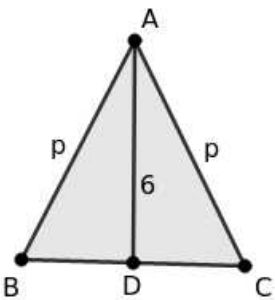
B 64 cm^2

C 45 cm^2

D 48 cm^2

Answer: D

Explanation:



Given, $AB = AC$

Let $AB = AC = p$

Perimeter of $\triangle ABC = 36$ cm

$$\Rightarrow AB + AC + BC = 36$$

$$\Rightarrow p + p + BC = 36$$

$$\Rightarrow BC = 36 - 2p$$

Since $AB = AC$ and AD is perpendicular to BC

AD will be the perpendicular bisector which bisects BC

$$\Rightarrow BD = CD = \frac{36 - 2p}{2} = 18 - p$$

In $\triangle ADB$,

$$AB^2 = BD^2 + AD^2$$

$$\Rightarrow p^2 = (18 - p)^2 + 6^2$$

$$\Rightarrow p^2 = 324 + p^2 - 36p + 36$$

$$\Rightarrow 36p = 360$$

$$\Rightarrow p = 10$$

$$BC = 36 - 2p = 36 - 20 = 16$$

$$\therefore \text{Area of the triangle} = \frac{1}{2} \times AD \times BC = \frac{1}{2} \times 6 \times 16 = 48 \text{ cm}^2$$

Hence, the correct answer is Option D

Question 63

An article was sold at a loss of 12%. If it was sold for ₹ 630 more, then there would have been a gain of 6%. Find the cost price of the article.

A ₹ 3,500

B ₹ 2,800

C ₹ 2,500

D ₹ 3,000

Answer: A

Explanation:

Let the cost price of the article = C

$$\text{Selling price of the article at 12\% loss} = \frac{88}{100}C$$

$$\text{Selling price of the article at 6\% gain} = \frac{106}{100}C$$

According to the problem,

$$\frac{88}{100}C + 630 = \frac{106}{100}C$$

$$\Rightarrow \frac{106}{100}C - \frac{88}{100}C = 630$$

$$\Rightarrow \frac{18}{100}C = 630$$

$$\Rightarrow C = 3500$$

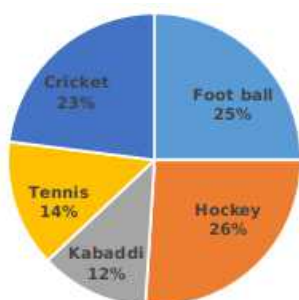
\therefore Cost price of the article = ₹ 3,500

Hence, the correct answer is Option A

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Question 64

The given pie-chart represents the percentage of students enrolled in five different sports. The total number of students is 2800.



What is the average number of students enrolled in Hockey and Tennis together?

- A 560
- B 580
- C 540
- D 460

Answer: A

Explanation:

Given, total number of students = 2800

From the pie-chart,

$$\text{Number of students enrolled in Hockey} = \frac{26}{100} \times 2800 = 728$$

$$\text{Number of students enrolled in Tennis} = \frac{14}{100} \times 2800 = 392$$

$$\therefore \text{Average number of students enrolled in Hockey and Tennis together} = \frac{728+392}{2} = \frac{1120}{2} = 560$$

Hence, the correct answer is Option A

Question 65

If the difference between the compound interest and simple interest on a certain sum of money for three years at 10% p.a. is ₹ 558, then the sum is:

- A ₹ 18,500
- B ₹ 15,000
- C ₹ 16,000
- D ₹ 18,000

Answer: D

Explanation:

Let the principal sum = P

Rate = 10%

Time = 3 years

$$\text{Compound interest on the sum} = P \left(1 + \frac{10}{100}\right)^3 - P = P \left(\frac{110}{100}\right)^3 - P = P \frac{1331}{1000} - P = \frac{331}{1000} P$$

$$\text{Simple interest on the sum} = \frac{P \times 3 \times 10}{100} = \frac{3}{10} P$$

According to the problem,

$$\frac{331}{1000} P - \frac{3}{10} P = 558$$

$$\Rightarrow \frac{331P - 300P}{1000} = 558$$

$$\Rightarrow \frac{31P}{1000} = 558$$

$$\Rightarrow P = 18000$$

\therefore The principal sum = ₹ 18,000

Hence, the correct answer is Option D

Question 66

The salaries of Vipin and Dinesh are in the ratio 5 : 8. If the salary of each is increased by ₹ 4,800, then new ratio becomes 7 : 10. What is Vipin's salary ?

- A ₹ 13,000
- B ₹ 12,000
- C ₹ 12,500
- D ₹ 10,000

Answer: B

Explanation:

Given, ratio of salaries of Vipin and Dinesh = 5 : 8

Let the salaries of Vipin and Dinesh are $5p$ and $8p$ respectively.

If the salary of each is increased by ₹ 4,800, then new ratio becomes 7 : 10.

$$\Rightarrow \frac{5p+4800}{8p+4800} = \frac{7}{10}$$

$$\Rightarrow 50p + 48000 = 56p + 33600$$

$$\Rightarrow 6p = 14400$$

$$\Rightarrow p = 2400$$

∴ Salary of Vipin = $5p = 5 \times 2400 = ₹ 12,000$

Hence, the correct answer is Option B

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Question 67

If $p + \frac{1}{p} = 112$, find $(p - 112)^{15} + \frac{1}{p^{15}}$

- A 1
- B 15
- C 10
- D 0

Answer: D

Explanation:

Given, $p + \frac{1}{p} = 112$

$$\Rightarrow p - 112 = -\frac{1}{p}$$

$$(p - 112)^{15} + \frac{1}{p^{15}} = \left(-\frac{1}{p}\right)^{15} + \frac{1}{p^{15}}$$

$$= -\frac{1}{p^{15}} + \frac{1}{p^{15}}$$

$$= 0$$

Hence, the correct answer is Option D

Question 68

If $4M37094267N$ is divisible by both 8 and 11, where M and N are single digit integers, then the values of M and N are:

- A M = 5, N = 6

B $M = 5, N = 4$

C $M = 5, N = 2$

D $M = 2, N = 5$

Answer: C

Explanation:

Given, $4M37094267N$ is divisible by both 8 and 11

If the number is divisible by 8, then the three digits should be divisible by 8

$$\Rightarrow 67N \text{ is divisible by } 8$$

$$\Rightarrow \text{The only possible value for } N \text{ is } 2$$

If the number is divisible by 11, then

Sum of digits at odd place - Sum of digits at even place = 0 or multiple of 11

$$\Rightarrow (M+7+9+2+7) - (4+3+0+4+6+N) = 0 \text{ or multiple of } 11$$

$$\Rightarrow M + 25 - 17 - N = 0 \text{ or multiple of } 11$$

$$\Rightarrow M - N + 8 = 0 \text{ or multiple of } 11$$

$$\Rightarrow M - 2 + 8 = 0 \text{ or multiple of } 11$$

$$\Rightarrow M + 6 = 0 \text{ or multiple of } 11$$

The possible value is $M + 6 = 11$

$$\Rightarrow M = 5$$

$$\therefore M = 5, N = 2$$

Hence, the correct answer is Option C

Question 69

The average of nine 2 digit numbers is decreased by 6 when the digits of one of the 2 digit numbers is interchanged. Find the difference between the digits of that number.

A 6

B 8

C 2

D 4

Answer: A

Explanation:

Let the two digits of the number are a and b

$$\text{Two digit number} = 10a + b$$

$$\text{Two digit number when digits are interchanged} = 10b + a$$

According to the problem,

$$\text{Sum of remaining 8 numbers} + 10a + b - 6 = \text{Sum of remaining 8 numbers} + 10b + a$$

$$\Rightarrow \text{Sum of remaining 8 numbers} + 10a + b - 54 = \text{Sum of remaining 8 numbers} + 10b + a$$

$$\Rightarrow 9a - 9b = 54$$

$$\Rightarrow 9(a - b) = 54$$

$$\Rightarrow a - b = 6$$

∴ Difference between digits of the number = 6

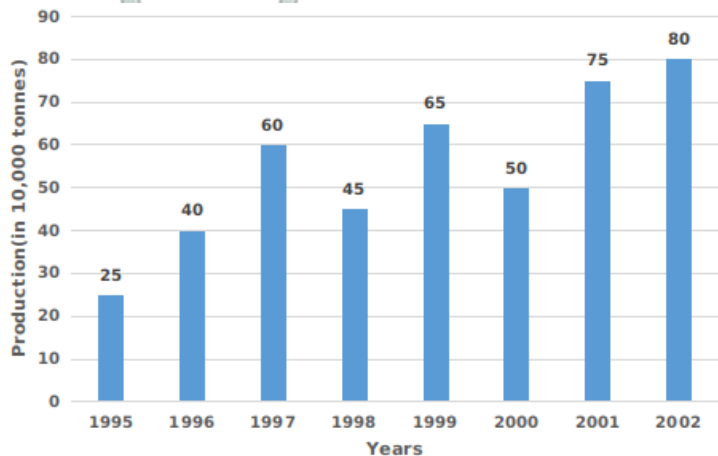
Hence, the correct answer is Option A

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Question 70

Study the given and answer the question that follows.

Production of Fertilizers by a Company (in 10,000 tonnes) Over the Years



The average production in 2000 and 2001 was less than the average production of which of the following pairs of years ?

- A 2001 and 2002
- B 1997 and 1998
- C 1999 and 2000
- D 1996 and 1997

Answer: A

Explanation:

From the graph,

$$\text{The average production by the company in 2000 and 2001} = \frac{50+75}{2} = 62.5$$

$$\text{The average production by the company in 2001 and 2002} = \frac{75+80}{2} = 77.5$$

$$\text{The average production by the company in 1997 and 1998} = \frac{60+45}{2} = 52.5$$

$$\text{The average production by the company in 1999 and 2000} = \frac{65+50}{2} = 57.5$$

$$\text{The average production by the company in 1996 and 1997} = \frac{40+60}{2} = 50$$

∴ The average production in 2000 and 2001 was less than the average production in 2001 and 2002.

Hence, the correct answer is Option A

Question 71

The difference of two positive numbers is 1020. If 7.6% of the greater number is 12.4% of the smaller number, then the sum of the two numbers is equal to:

- A 3250
- B 4520
- C 3520

D 4250

Answer: D

Explanation:

Let the two numbers are a and b .

Difference between numbers = 1020

$$\Rightarrow a - b = 1020 \dots\dots(1)$$

According to the problem,

$$\frac{7.6}{100}a = \frac{12.4}{100}b$$

$$\Rightarrow a = \frac{31}{19}b$$

Substituting $a = \frac{31}{19}b$ in equation (1)

$$\frac{31}{19}b - b = 1020$$

$$\Rightarrow \frac{12}{19}b = 1020$$

$$\Rightarrow b = 1615$$

$$\Rightarrow a = \frac{31}{19}b = \frac{31}{19} \times 1615 = 2635$$

\therefore Sum of the numbers = $1615 + 2635 = 4250$

Hence, the correct answer is Option D

Question 72

ABC is a right angled triangle, right angled at A. A circle is inscribed in it. The lengths of two sides containing the right angle are 48 cm and 14 cm. The radius of the inscribed circle is:

A 4 cm

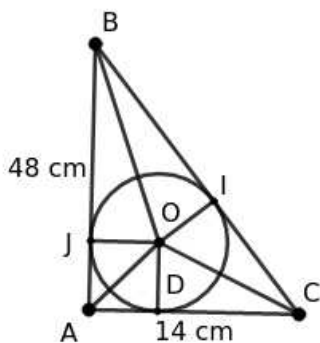
B 8 cm

C 6 cm

D 5 cm

Answer: C

Explanation:



Using the pythagoras theorem,

$$BC^2 = AB^2 + AC^2$$

$$\Rightarrow BC^2 = 48^2 + 14^2$$

$$\Rightarrow BC^2 = 2304 + 196$$

$$\Rightarrow BC^2 = 2500$$

$$\Rightarrow BC = 50 \text{ cm}$$

Let the radius of the circle = r

$$\Rightarrow OD = OI = OJ = r$$

AB, BC, AC are tangents to the circle

Area of $\triangle ABC$ = Area of $\triangle OAC$ + Area of $\triangle OBC$ + Area of $\triangle OAB$

$$\Rightarrow \frac{1}{2} \times 48 \times 14 = \frac{1}{2} \times AC \times OD + \frac{1}{2} \times BC \times OI + \frac{1}{2} \times AB \times OJ$$

$$\Rightarrow 336 = \frac{1}{2} \times 14 \times r + \frac{1}{2} \times 50 \times r + \frac{1}{2} \times 48 \times r$$

$$\Rightarrow 336 = 7r + 25r + 24r$$

$$\Rightarrow 56r = 336$$

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

\therefore Radius of the inscribed circle = 6 cm

Hence, the correct answer is Option C

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Question 73

If 3.96 cubic dm of lead is to be drawn in to a cylindrical wire of diameter 0.6 cm, then the length of the wire (in metres), is:

A 140 m

B 120 m

C 130 m

D 125 m

Answer: A

Explanation:

$$\text{Volume of lead} = 3.96 \text{ dm}^3 = 3.96 \times (100 \text{ cm})^3 = 3960 \text{ cm}^3$$

Given, diameter of the cylindrical wire = 0.6 cm

$$\Rightarrow \text{Radius of the cylindrical wire} = 0.3 \text{ cm}$$

Let the length of the cylindrical wire = h

According to the problem,

$$\text{Volume of the cylindrical wire} = 3960 \text{ cm}^3$$

$$\Rightarrow \pi r^2 h = 3960$$

$$\Rightarrow \frac{22}{7} (0.3)^2 h = 3960$$

$$\Rightarrow \frac{1}{7} (0.3)^2 h = 180$$

$$\Rightarrow h = \frac{180 \times 7}{0.3 \times 0.3}$$

$$\Rightarrow h = \frac{180 \times 7 \times 100}{3 \times 3}$$

$$\Rightarrow h = 14000 \text{ cm}$$

$$\Rightarrow h = 140 \text{ m}$$

\therefore Length of the cylindrical wire = 140 m

Hence, the correct answer is Option A

Question 74

If $x \sin^3 \theta + y \cos^3 \theta = \sin \theta \cos \theta$ and $x \sin \theta = y \cos \theta$, then the value of $x^2 + y^2$ is:

- A 4
- B 0
- C 2
- D 1

Answer: D

Explanation:

Given, $x \sin \theta = y \cos \theta$

$$\Rightarrow y = \frac{x \sin \theta}{\cos \theta}$$

$$x \sin^3 \theta + y \cos^3 \theta = \sin \theta \cos \theta$$

$$\Rightarrow x \sin^3 \theta + \frac{x \sin \theta}{\cos \theta} \cos^3 \theta = \sin \theta \cos \theta$$

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

$$\Rightarrow x \sin \theta (\sin^2 \theta + \cos^2 \theta) = \sin \theta \cos \theta$$

$$\Rightarrow x \sin \theta = \sin \theta \cos \theta$$

$$\Rightarrow x = \cos \theta$$

$$\therefore y = \frac{x \sin \theta}{\cos \theta} = \frac{\cos \theta \sin \theta}{\cos \theta}$$

$$\Rightarrow y = \sin \theta$$

$$\therefore x^2 + y^2 = \cos^2 \theta + \sin^2 \theta = 1$$

Hence, the correct answer is Option D

Question 75

A and B together can complete a piece of work in 15 days. B and C together can do it in 24 days. If A is twice as good a workman as C, then in how many days can B alone complete the work?

- A 60 days
- B 40 days
- C 52 days
- D 45 days

Answer: A

Explanation:

Let the total work = W

Given, A is twice as good a workman as C

Let the number of days required for A alone to complete the work = a

\Rightarrow Number of days required for C alone to complete the work = 2a

Let the number of days required for B alone to complete the work = b

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

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

$$\text{Work done by C in 1 day} = \frac{W}{2a}$$

A and B together can complete a piece of work in 15 days

$$\Rightarrow \text{Work done by A and B together in 1 day} = \frac{W}{15}$$

$$\Rightarrow \frac{W}{a} + \frac{W}{b} = \frac{W}{15}$$

$$\Rightarrow \frac{1}{a} = \frac{1}{15} - \frac{1}{b} \dots\dots\dots(1)$$

B and C together can complete the work in 24 days

$$\Rightarrow \text{Work done by B and C together in 1 day} = \frac{W}{24}$$

$$\Rightarrow \frac{W}{b} + \frac{W}{2a} = \frac{W}{24}$$

$$\Rightarrow \frac{1}{b} + \frac{1}{2a} = \frac{1}{24}$$

$$\Rightarrow \frac{1}{b} + \frac{1}{2} \left[\frac{1}{15} - \frac{1}{b} \right] = \frac{1}{24} \quad [\text{From (1)}]$$

$$\Rightarrow \frac{1}{2b} = \frac{1}{24} - \frac{1}{30}$$

$$\Rightarrow \frac{1}{2b} = \frac{5-4}{120}$$

$$\Rightarrow \frac{1}{b} = \frac{1}{60}$$

$$\Rightarrow b = 60$$

∴ Number of days required for B alone to complete the work = 60 days

Hence, the correct answer is Option A

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General Awareness

Instructions

For the following questions answer them individually

Question 76

On which date International Day of Biological Diversity is celebrated?

- A 20th May
- B 22nd June
- C 22nd May
- D 17th May

Answer: C

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Question 77

Pasi Kongki is folk dance of which state?

- A Goa
- B Haryana
- C Kerala
- D Arunachal Pradesh

Answer: D

Question 78

Who among the following drafted Article 370 of the Constitution of India?

- A Jawaharlal Nehru
- B Raghubar Das
- C Gopaldaswami Ayyangar
- D Bhim Rao Ambedkar

Answer: C

Question 79

Who proposed Wardha Scheme or Basic Education?

- A Jawaharlal Nehru
- B Sardar Vallabhbhai Patel
- C Mahatma Gandhi
- D Bal Gangadhar Tilak

Answer: C

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Question 80

Which is the source of Krishna river?

- A Amarkantak
- B Tala
- C Mahabaleshwar
- D Multai

Answer: C

Question 81

Which of the following observations DOES NOT help in determining whether a chemical reaction has taken place ?

- A Change in state
- B Evolution of gas
- C Change in height
- D Change in colour

Answer: C

Question 82

Former finance minister Arun Jaitley passed away in which month of 2019?

- A June
- B May

- C August
- D October

Answer: C

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Question 83

Which of the following is the base year of a new WPI series effective from April 2017?

- A 2011-12
- B 2013-14
- C 2010-11
- D 2012-13

Answer: A

Question 84

Who is the first IPS officer to be honoured with Tenzing Norgay National Adventure Award?

- A Aparna Kumar
- B Sanjukta Parashar
- C Roopa Moudgil
- D R Sreelekha

Answer: A

Question 85

Who is the first Indian American to become Governor of State of USA?

- A Shankara Kurup
- B Bobby Jindal
- C John Tyler
- D Bill Clinton

Answer: B

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Question 86

Who is the author of the Ben-Hur : A Tale of the Christ?

- A Jules Verne
- B Ben Jonson

C Lew Wallace

D Lewis Carroll

Answer: C

Question 87

Which state does not share its boundary with Myanmar?

A Arunachal Pradesh

B Mizoram

C Manipur

D Sikkim

Answer: D

Question 88

Which Article of the Constitution deals with formation of New States?

A Article 3

B Article 5

C Article 4

D Article 2

Answer: A

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Question 89

When was the Human Development Report first published?

A 1990

B 1980

C 2000

D 1981

Answer: A

Question 90

'Khuang' is a traditional musical instrument of which state?

A Assam

B Mizoram

C Jharkhand

D West Bengal

Answer: B

Question 91

Which of the following is the basic SI unit of thermo dynamic temperature?

- A Kelvin
- B Mole
- C Metre
- D Candela

Answer: A

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Question 92

Which of the following sites of Indus valley civilization is not on the bank of river Indus?

- A Chanhudaro
- B Mohenjodaro
- C Ropar
- D Kot-Diji

Answer: C

Question 93

Who had proposed the motto of Olympics?

- A Didon
- B Moon Jae-in
- C Pierre de Coubertin
- D Hirohito

Answer: C

Question 94

Related area of Golden Revolution is:

- A Oilseeds
- B Fish
- C Eggs
- D Fruits

Answer: D

Question 95

Which of the following is a group of bacteria found in human intestines, whose presence in water indicates contamination by disease-causing microorganisms?

- A Pseudomonas
- B Coliform
- C Clostridium
- D Streptococcus

Answer: B

Question 96

Who among the following won the World Badminton championship title in 2019?

- A Tai Tzu Ying
- B Carolina Masin
- C Nazomi O Kuhara
- D P.V Sindhu

Answer: D

Question 97

Which Article of the Constitution of India states the directive principles of state policy on 'promotion of international peace and security'?

- A Article 51
- B Article 69
- C Article 62
- D Article 49

Answer: A

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Question 98

Transistors belong to which of the following generation of the computers?

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

Answer: D

Question 99

Which of the following is not a softcopy devices?

- A Plotter
- B Projector
- C Monitor
- D Speaker

Answer: A

Question 100

Which state in India was the first to introduce the 'Mid-day Meal Scheme' for school children?

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

Answer: A

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