



SSC CHSL 15th October 2020 Shift-1

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English Language (Basic Knowledge)

Instructions

For the following questions answer them individually

Question 1

Select the most appropriate **ANTONYM** of the given word.

AGITATE

- A Calm
- B Impress
- C Argue
- D Excite

Answer: A

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Question 2

Select the most appropriate **synonym** of the given word.

HOLISTIC

- A Comprehensive
- B Sketchy
- C Superficial
- D Dissimilar

Answer: A

Question 3

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

Over 7,50,000 people from 192 countries have pledged to go vegan for a month which, they say, would reduce carbon _____ by 45000 tons.

- A omission
- B inclusion
- C emission
- D exclusion

Answer: C

Question 4

Select the option that is the **passive form** of the given sentence.

The Principal gave her a warning about coming late to school every day.

- A She gives a warning to the Principal about coming late to school every day.

- B She has given a warning by the Principal about coming late to school every day.
- C She was given a warning about coming late to school every day by the Principal.
- D She was giving a warning by the Principal about coming late to school every day.

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.

Simply put, happiness is satisfaction of mind. However, different individuals (1)_____ different perceptions of how to achieve (2)_____. For some, happiness lies (3)_____ wealth; for others, it is in (4)_____ and position; yet happiness is (5)_____ to most

Question 5

Select the most appropriate option to fill in blank number 1.

- A having
- B have
- C has
- D had

Answer: B

Question 6

Select the most appropriate option to fill in blank number 2.

- A happiness
- B fame
- C dream
- D money

Answer: A

Question 7

Select the most appropriate option to fill in blank number 3.

- A over
- B in
- C about
- D on

Answer: B

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Question 8

Select the most appropriate option to fill in blank number 4.

- A satisfaction
- B happiness
- C mind
- D rank

Answer: D

Question 9

Select the most appropriate option to fill in blank number 5.

- A creative
- B elusive
- C probable
- D fashionable

Answer: B

Instructions

For the following questions answer them individually

Question 10

Select the most appropriate synonym of the given word.

LURK

- A Tremble
- B Vibrate
- C Prowl
- D Sing

Answer: C

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Question 11

Select the most appropriate meaning of the idiom

Looking for a needle in a haystack.

- A Searching for small things to do
- B Be interested in sewing and embroidery
- C Attempting something impossible
- D Suddenly deciding to do farming

Answer: C

Question 12

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

He is your brother, _____?

- A is he
- B is it
- C isn't it
- D isn't he

Answer: D

Question 13

Given below are four jumbled sentences. Select the option that gives their correct order.

- A. While an average person lives up to 72 years of age, the life expectancy of doctors is only about 59 years, the shocking IMA study concluded.
- B. The sudden death of Dr. Meena Kumar at an International Conference in London after suffering a cardiac arrest has alarmed the medical community.
- C. She was a well-known medico recognised for her services as a consultant neurologist with a career of over 25 years.
- D. Her death brings to the fore the fact that even doctors have risky life-styles and a hard life, a study by the Indian Medical Association conducted on doctors, said.

- A ABDC
- B DABC
- C CABD
- D BCDA

Answer: D

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Question 14

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

Relating to the healing of diseases

- A Preventive
- B Immunity
- C Therapeutic
- D Inoculation

Answer: C

Question 15

Select the INCORRECTLY spelt word.

- A Identification

- B Corruption
- C Embodiment
- D Discrimination

Answer: D

Question 16

Select the correctly spelt word.

- A Frequency
- B Acquirm
- C Secquence
- D Bouquet

Answer: D

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Question 17

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

Have I ever told you what lovely pickles my grandmother used to made when she was in Visakhapatnam?

- A used to made
- B when she was in
- C what lovely pickles
- D Have I ever told you

Answer: A

Question 18

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.

There is a double-digit growth in salaries of vocational jobs now and the trend are likely to continue in the coming years.

- A is likely for continuing
- B is likely to continue
- C is like to be continued
- D No improvement

Answer: B

Question 19

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.

His uncle advised Naveen to keep away from involving himself in the controversy.

- A that he keeps away for
- B No improvement
- C from keep away in
- D for keep away from

Answer: B

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Question 20

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

A group of people who have come together in a religious building for worship and prayer

- A Congregation
- B Throng
- C Multitude
- D Crowd

Answer: A

Question 21

Select the most appropriate meaning of the underlined idiom in the given sentence.

Anu jumped the gun and announced their plans at the dinner table.

- A acted hastily
- B ate quickly
- C started shooting
- D shouted loudly

Answer: A

Question 22

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

Aryan told Sriram, "Don't worry I can be able to climb that tree to reach the fruit."

- A to reach the fruit
- B I can be able to
- C Don't worry
- D climb that tree

Answer: B

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Question 23

Select the most appropriate **ANTONYM** of the given word.

HEINOUS

- A Agreeable
- B Biased
- C Unwilling
- D Unhealthy

Answer: A

Question 24

Select the option that is the direct form of the given sentence.

The child asked his mother if he could swim in the pool there.

- A The child asked his mother, "May I swim in the pool here?"
- B The child asked his mother, "Could he swim in the pool there?"
- C The child asked to his mother, "Can he swim in the pool there?"
- D The child said to his mother, "Will I swim in the pool here?"

Answer: A

Question 25

Given below are four jumbled sentences. Select the option that gives their correct order.

- A. So, clearly, where you get your news from matters, since you can't possibly be expected to verify and authenticate every bit of 'news' you receive.
- B. Are you really sure those apparently sound bits of medical advice you received as forwards would pass muster with your doctor?
- C. Yet, we do often forward these in the belief that we are doing a good deed to our friends and relatives.
- D. Being educated is no guarantee against falling prey to fake news.

- A CADB
- B DBCA
- C BACD
- D ACBD

Answer: B

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General Intelligence

Instructions

For the following questions answer them individually

Question 26

In a certain code language, **TIFFIN** is coded as 67 and **BOX** is coded as 44. How will **CARDBOARD** be coded as in that language?

- A 69
- B 67
- C 66
- D 64

Answer: A

Explanation:

Given, TIFFIN is coded as 67 and BOX is coded as 44 in the code language

The logic here is

$$T + I + F + F + I + N + 3 = 20 + 9 + 6 + 6 + 9 + 14 + 3 = 67$$

$$B + O + X + 3 = 2 + 15 + 24 + 3 = 44 + 3 = 47$$

The code value is the sum of the corresponding values of letters and 3

Similarly,

$$C + A + R + D + B + O + A + R + D + 3 = 3 + 1 + 18 + 4 + 2 + 15 + 1 + 18 + 4 + 3 = 69$$

∴ CARDBOARD is coded as 69 in the code language

Hence, the correct answer is Option A

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Question 27

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. All cars are motors.
2. All motors are cycles.

Conclusions:

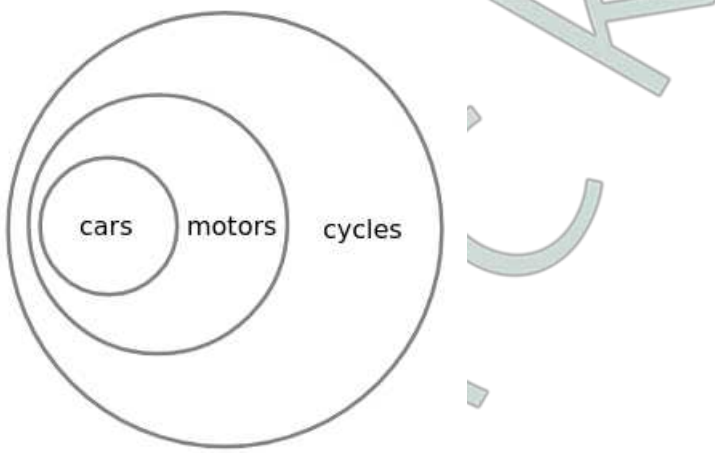
- I. All cycles are cars.
- II. All cars are cycles.

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

Answer: A

Explanation:

The basic diagram for the given statements is



I. All cycles are cars

From the basic diagram, all cycles are not cars. Hence conclusion I do not follow.

II. All cars are cycles

From the basic diagram, all cars are cycles. Hence conclusion follows.

∴ Only conclusion II follows the given statements

Hence, the correct answer is Option A

Question 28

Introducing a lady, Raman said, "She is the wife of my father's father-in-law". How is the lady related to Raman?

- A Maternal aunt
- B Maternal grandmother
- C Mother in law
- D Paternal grandmother

Answer: B

Explanation:

Father's father-in-law is Mother's Father

Mother's Father is the Maternal grandfather

According to the Problem,

Lady is the wife of Raman's Maternal grandfather

∴ Lady is the Maternal grandmother of Raman

Hence, the correct answer is Option B

Question 29

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

(26, 63, 124)

- A (63, 124, 215)
- B (125, 216, 343)
- C (63, 123, 213)
- D (126, 217, 344)

Answer: A

Explanation:

$$26 = 27 - 1 = 3^3 - 1$$

$$63 = 64 - 1 = 4^3 - 1$$

$$124 = 125 - 1 = 5^3 - 1$$

All the numbers are in the form of $n^3 - 1$

Similarly,

$$63 = 64 - 1 = 4^3 - 1$$

$$124 = 125 - 1 = 5^3 - 1$$

$$215 = 216 - 1 = 6^3 - 1$$

\therefore (63, 124, 215) are related in the same way (26, 63, 124) related

Hence, the correct answer is Option A

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Question 30

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

150	25	100
132	22	88
162	?	108

A 29

B 27

C 30

D 24

Answer: B

Explanation:

Along the rows, the second number is obtained by dividing the first number by 6 or dividing the third number by 4 as shown below

$$\frac{150}{6} = 25 \text{ or } \frac{100}{4} = 25$$

$$\frac{132}{6} = 22 \text{ or } \frac{88}{4} = 22$$

$$\text{Similarly, the required number} = \frac{162}{6} = 27$$

Hence, the correct answer is Option B

Question 31

Select the option in which the numbers are related in the same way as are the numbers of the following set. (11, 57, 8)

A (15, 81, 12)

B (15, 38, 13)

C (18, 89, 15)

D (12, 64, 10)

Answer: A

Explanation:

The logic here is

$$(11 + 8) \times 3 = 19 \times 3 = 57 \rightarrow (\text{first number} + \text{third number}) \times 3 = \text{second number}$$

Similarly,

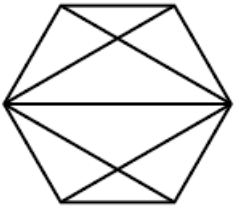
$$(15 + 12) \times 3 = 27 \times 3 = 81 \rightarrow (\text{first number} + \text{third number}) \times 3 = \text{second number}$$

\therefore (15, 81, 12) is related in the same way (11, 57, 8) are related.

Hence, the correct answer is Option A

Question 32

How many triangles are present in the following figure?



A 16

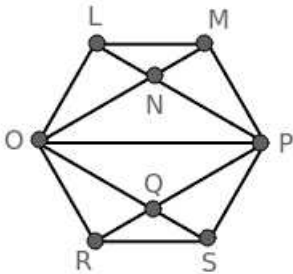
B 18

C 12

D 14

Answer: A

Explanation:



The different triangles in the given figure is RSQ, RSP, RSO, ROQ, ROP, SOP, SQP, POQ, LMN, LMP, LMO, LON, LOP, MOP, MNP, PON

\therefore Number of triangles in the given figure = 16

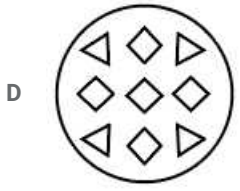
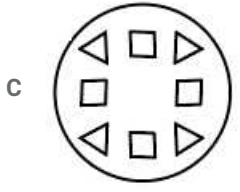
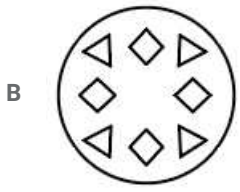
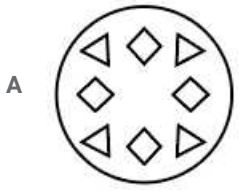
Hence, the correct answer is Option A

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Question 33

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





Answer: B

Question 34

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

12 : 64

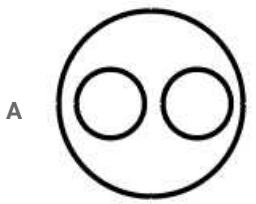
- A 16 : 76
- B 14 : 72
- C 13 : 65
- D 11 : 56

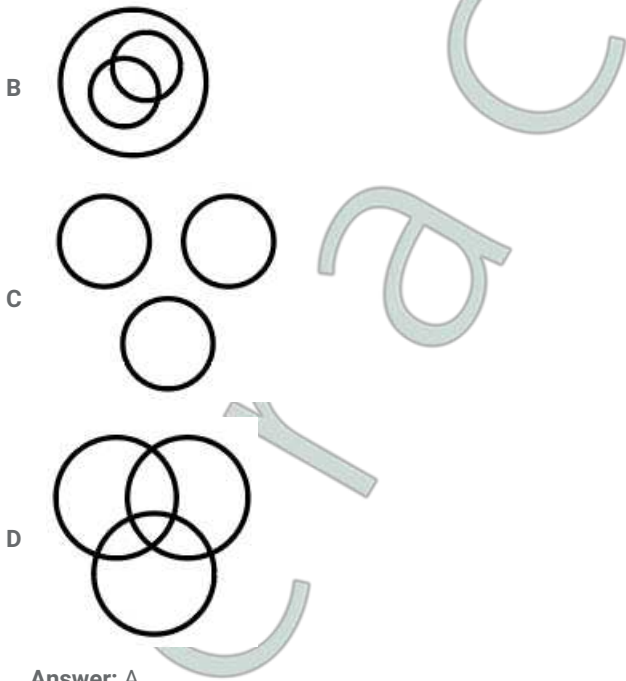
Answer: B

Question 35

Select the Venn diagram that best illustrates the relationship between the following classes.

Fruits, Eatables, Cookies



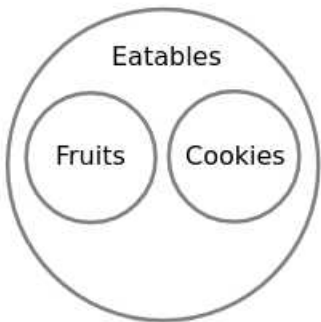


Answer: A

Explanation:

Fruits and Cookies are two different things where both of them are Eatables.

∴ The Venn diagram that best illustrates the relationship between the given classes is

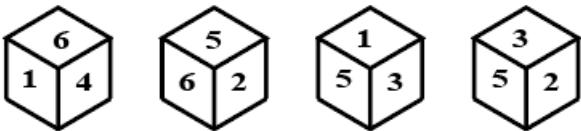


Hence, the correct answer is Option A

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Question 36

Four different positions of the same dice are shown. Select the number that will be on the face opposite to the face having number '6'.



A 1

B 3

C 5

D 2

Answer: B

Explanation:

From the first position of the dice, 6 is not opposite to 1 and 4

From the second position of the dice, 6 is not opposite to 2 and 5

⇒ 6 is opposite to the remaining number 3

∴ 3 will be on the face opposite to the face having number '6'

Hence, the correct answer is Option B

Question 37

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.

STOP : HGLK :: LAMB : ?

A PYOX

B JYKZ

C OZNY

D NCOD

Answer: C

Explanation:

S opposite is H

T opposite is G

O opposite is L

P opposite is K

Similarly,

L opposite is O

A opposite is Z

M opposite is N

B opposite is Y

∴ OZNY is related to LAMB in the same way HGLK is related to STOP

Hence, the correct answer is Option C

Question 38

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

$$78 \div 6 \times 4 - 3 + 9 = 10$$

A + and -

B ÷ and +

C - and ×

D × and ÷

Answer: C

Explanation:

By Trial and Error method,

Option A

$$78 \div 6 \times 4 + 3 - 9 = 10$$

$$13 \times 4 + 3 - 9 = 10$$

$$52 + 3 - 9 = 10$$

$$46 = 10$$

Hence Option A is incorrect

Option B

$$78 + 6 \times 4 - 3 \div 9 = 10$$

$$78 + 6 \times 4 - \frac{1}{3} = 10$$

The value will be decimal after solving which is incorrect

Option C

$$78 \div 6 - 4 \times 3 + 9 = 10$$

$$13 - 4 \times 3 + 9 = 10$$

$$13 - 12 + 9 = 10$$

$$10 = 10$$

Hence, the correct answer is Option C

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Question 39

Which letter-cluster will replace the question mark (?) to complete the following series?

PGD, SEE, VCF, ?, ?

A YAH, BZH

B YAD, BYH

C YAG, BYH

D ZBD, CYI

Answer: C

Explanation:

$$P + 3 = S \rightarrow S + 3 = V \rightarrow V + 3 = Y \rightarrow Y + 3 = B$$

$$G - 2 = E \rightarrow E - 2 = C \rightarrow C - 2 = A \rightarrow A - 2 = Y$$

$$D + 1 = E \rightarrow E + 1 = F \rightarrow F + 1 = G \rightarrow G + 1 = H$$

∴ The next letter clusters in the given series is YAG, BYH

Hence, the correct answer is Option C

Question 40

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

Syringe : Piston

A Tyre : Tube

B Vehicle : Passenger

C Balloon : Air

D Bulb : Light

Answer: A

Explanation:

Syringe consists of Piston and working of Syringe mainly depends on Piston.
Similarly, Tyre consists of tube and working of Tyre mainly depends on Tube.
∴ Tyre and Tube are related in the same way Syringe and Piston are related
Hence, the correct answer is Option A

Question 41

In a certain code language, HIMACHAL is written as LAHCAMIH. How will MAGNETIC be written as in that language?

- A CITENGAM
- B ETICNGAM
- C CIETNGAM
- D GAMNECIT

Answer: A

Explanation:

Given, HIMACHAL is written as LAHCAMIH in the code language
The logic for the code is that the letters are arranged in the reverse order of the word
Similarly, MAGNETIC is written as CITENGAM in the code language
Hence, the correct answer is Option A

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Question 42

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 YVRO
- B ORVA
- C ADHM
- D ILPU

Answer: A

Explanation:

In letter-clusters ORVA, ADHM, ILPU the number of letters between the letters of letter-clusters are 2, 3, 4 respectively.
In YVRO, the number of letters between the letter-clusters are not 2, 3, 4 respectively.
∴ YVRO is the odd one among the given letter-clusters
Hence, the correct answer is Option A

Question 43

If '+' means '÷'; '×' means '-'; '÷' means '+' and '-' means '×'. Then find the value of following expression.

$$18 + 2 - 5 \times 6 \div 4 = ?$$

- A 45

- B 43
- C 47
- D 12.5

Answer: B

Explanation:

According to the problem, by applying the given conditions

$$\begin{aligned} 18 \div 2 \times 5 - 6 + 4 &= 9 \times 5 - 6 + 4 \\ &= 45 - 6 + 4 \\ &= 43 \end{aligned}$$

Hence, the correct answer is Option B

Question 44

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

2, 2, 6, 10, 22, 42, ?

- A 84
- B 64
- C 82
- D 86

Answer: D

Explanation:

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

$$2 \times 2 + 2 = 6$$

$$6 \times 2 - 2 = 10$$

$$10 \times 2 + 2 = 22$$

$$22 \times 2 - 2 = 42$$

Similarly, the next number in the series = $42 \times 2 + 2 = 86$

Hence, the correct answer is Option D

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Question 45

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 NKHEB
- B SPMJG
- C FHLQR
- D UROLI

Answer: C

Explanation:

In letter-clusters NKHEB, SPMJG, UROLI the number of letters between the letters of the letter-clusters are 2.

In FHLQR, the number of letters between the letters are not 2.

∴ FHLQR is the odd one among the given letter-clusters

Hence, the correct answer is Option C

Question 46

'Umpire' is related to 'Pitch' in the same way as 'Mechanic' is related to '_____'.


A Machine

B Garage

C Repair

D Spanner

Answer: B

Explanation:

Umpire will do his work by standing behind the stumps on the Pitch whereas Mechanic will do his work in a Garage.

∴ Mechanic is related to Garage in the same way Umpire is related to Pitch

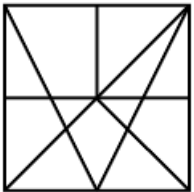
Hence, the correct answer is Option B

Question 47

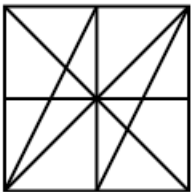
Select the option in which the given figure is embedded. (Rotation is not allowed)



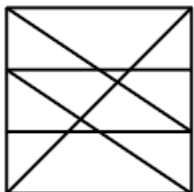
A



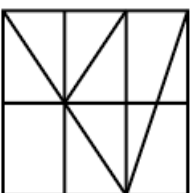
B



C



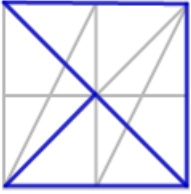
D



Answer: B

Explanation:

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

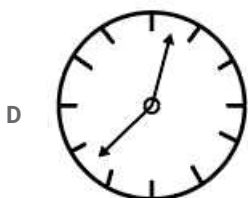
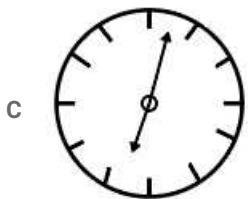
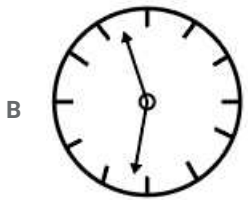
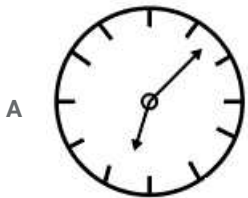


Hence, the correct answer is Option B

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Question 48

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



Answer: D

Explanation:

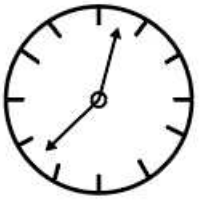
When a mirror is placed on the right side of the figure,

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

The hand facing North-West faces North-East symmetrically in the mirror image

The hand facing South-East faces South-West symmetrically in the mirror image

∴ The mirror image of the given figure is



Hence, the correct answer is Option D

Question 49

Which letter will replace the question mark (?) to complete the following series?

F, I, M, ?, X

A T

B Q

C S

D R

Answer: D

Explanation:

The logic here is

$$F + 3 = I$$

$$I + 4 = M$$

$$M + 5 = R$$

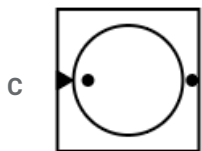
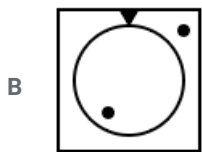
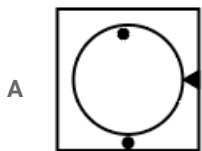
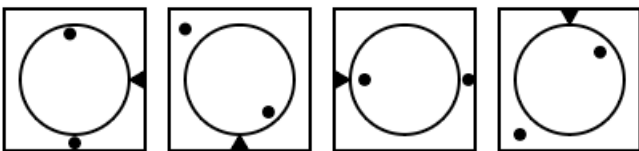
$$R + 6 = X$$

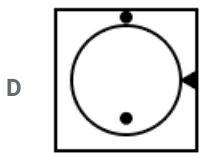
∴ The required number is R

Hence, the correct answer is Option D

Question 50

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





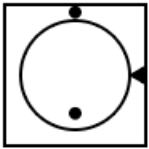
Answer: D

Explanation:

The triangle is moving one place along the sides in clockwise direction

Both dots are moving one place along the sides and edges and also moving in and out alternatively in anticlockwise direction

∴ The figure that will come next in the given series is



Hence, the correct answer is Option D

SSC CGL Previous Papers (DOWNLOAD PDF)

Quantitative Aptitude(Basic Arithmetic Skill)

Instructions

For the following questions answer them individually

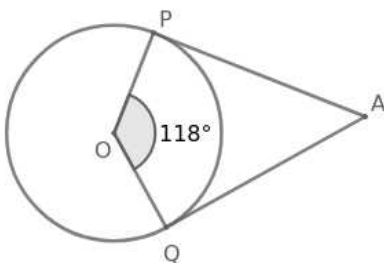
Question 51

A circle is centred at O. Two tangents AP and AQ are drawn from an external point A. If $\angle POQ = 118^\circ$, then $\angle PAQ$ is equal to:

- A 62°
- B 112°
- C 72°
- D 98°

Answer: A

Explanation:



Given, $\angle POQ = 118^\circ$

AP and AQ are tangents from point A to the circle with centre O

$$\Rightarrow \angle OPA = 90^\circ \text{ and } \angle OQA = 90^\circ$$

From quadrilateral OPAQ,

$$\angle POQ + \angle OQA + \angle PAQ + \angle OPA = 360^\circ$$

$$\Rightarrow 118^\circ + 90^\circ + \angle PAQ + 90^\circ = 360^\circ$$

$$\Rightarrow 298^\circ + \angle PAQ = 360^\circ$$

$$\Rightarrow \angle PAQ = 62^\circ$$

Hence, the correct answer is Option A

SSC CGL Free Mock Test (Latest Pattern)

Question 52

The radius of a circular cone is 6 cm and its height is 7 cm. Then the volume of cone in cm^3 is: (Take $\pi = \frac{22}{7}$)

A 216

B 154

C 264

D 188

Answer: C

Explanation:

Given,

Radius of the circular cone (r) = 6 cm

Height of the circular cone (h) = 8 cm

$$\therefore \text{Volume of the circular cone} = \frac{1}{3} \pi r^2 h = \frac{1}{3} \times \frac{22}{7} \times (6)^2 \times 7 = 264 \text{ cm}^3$$

Hence, the correct answer is Option C

Question 53

The cost price of 15 pens is equal to the selling price of 20 pens. The loss or profit percentage is:

A 25% loss

B 20% loss

C 25% profit

D 20% profit

Answer: A

Explanation:

Given,

The cost price of 15 pens is equal to the selling price of 20 pens

Let the cost price of 15 pens = a

$$\Rightarrow \text{The cost price of 1 pen} = \frac{a}{15}$$

The selling price of 20 pens = a

$$\Rightarrow \text{The selling price of 1 pen} = \frac{a}{20}$$

$$\therefore \text{Loss\%} = \frac{\frac{a}{15} - \frac{a}{20}}{\frac{a}{15}} \times 100 = \frac{\frac{60}{15} - \frac{60}{20}}{\frac{60}{15}} \times 100 = \frac{15}{60} \times 100 = 25\%$$

Hence, the correct answer is Option A

Question 54

In a class, if 60% of the students are boys and the number of girls is 36, then the number of boys is:

- A 54
- B 60
- C 58
- D 65

Answer: A

Explanation:

Let the total number of students in the class = a

Given,

Number of girls in the class = 36

Percentage of boys in the class = 60%

\Rightarrow Percentage of girls in the class = 40%

$$\Rightarrow \frac{40}{100} \times a = 36$$

$$\Rightarrow a = 90$$

Total number of students in the class = 90

\Rightarrow Number of boys in the class = $90 - 36 = 54$

Hence, the correct answer is Option A

SSC CHSL Important Questions and Answers (Download PDF)

Question 55

If $\cos x = \frac{p}{q}$ and $0^\circ < x < 90^\circ$, then the value of $\tan x$ is:

A $\sqrt{\frac{q}{q^2-p^2}}$

B $\frac{\sqrt{q^2-p^2}}{p}$

C $\frac{\sqrt{q^2-p^2}}{q}$

D $\sqrt{\frac{p}{p^2-q^2}}$

Answer: B

Explanation:

Given, $\cos x = \frac{p}{q}$

$$\therefore \tan x = \frac{\sin x}{\cos x}$$

$$= \frac{\sqrt{1-\cos^2 x}}{\cos x}$$

$$= \frac{\sqrt{1-\left(\frac{p}{q}\right)^2}}{\frac{p}{q}}$$

$$= \frac{\sqrt{\frac{q^2-p^2}{q^2}}}{\frac{p}{q}}$$

$$= \frac{p}{q}$$

$$= \frac{\sqrt{q^2 - p^2}}{\frac{q}{p}} = \frac{\sqrt{q^2 - p^2}}{\frac{q}{q}}$$

Hence, the correct answer is Option B

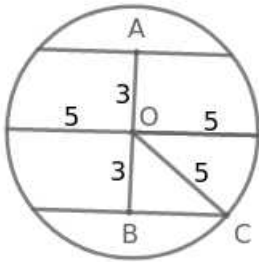
Question 56

In a circle, two equal and parallel chords are 6 cm apart and they lie on the opposite sides of the centre of the circle, whose radius is 5 cm. The length of each chord (in cm), is:

- A 8
- B 10
- C 12
- D 6

Answer: A

Explanation:



Given,

radius of the circle = 5 cm

The length of two chords are equal, then the perpendicular distance of the chords from the centre are equal

$$\Rightarrow OA = OB$$

Distance between parallel chords = 6 cm

$$\Rightarrow AB = 6$$

$$\Rightarrow OA + OB = 6$$

$$\Rightarrow OA + OA = 6$$

$$\Rightarrow 2OA = 6$$

$$\Rightarrow OA = 3\text{cm}$$

$$\Rightarrow OA = OB = 3\text{cm}$$

From the figure,

In $\triangle OBC$

$$OB^2 + BC^2 = OC^2$$

$$\Rightarrow 3^2 + BC^2 = 5^2$$

$$\Rightarrow 9 + BC^2 = 25$$

$$\Rightarrow BC^2 = 16$$

$$\Rightarrow BC = 4\text{ cm}$$

$$\therefore \text{Length of each chord} = 2BC = 2(4) = 8\text{ cm}$$

Hence, the correct answer is Option A

Question 57

If an amount of ₹800 is distributed between Ravi, Mohan and Govind in the proportions 2 : 5 : 3, then the sum of the shares of Mohan and Govind, is:

- A ₹400
- B ₹640
- C ₹560
- D ₹240

Answer: B

Explanation:

Given,

₹800 is distributed between Ravi, Mohan and Govind in the proportions 2 : 5 : 3

$$\Rightarrow \text{Share of Mohan} = \frac{5}{2+5+3} \times 800 = \frac{5}{10} \times 800 = ₹400$$

$$\Rightarrow \text{Share of Govind} = \frac{3}{2+5+3} \times 800 = \frac{3}{10} \times 800 = ₹240$$

$$\therefore \text{Sum of the shares of Mohan and Govind} = 400 + 240 = ₹640$$

Hence, the correct answer is Option B

SSC CHSL Study Material

Question 58

If $\sin x - \cos x = 0$, $0^\circ < x < 90^\circ$ then the value of $(\sec x + \operatorname{cosec} x)^2$ is:

- A 10
- B 4
- C 8
- D 6

Answer: C

Explanation:

$$\sin x - \cos x = 0$$

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

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

$$\Rightarrow \tan x = 1$$

$$\Rightarrow x = 45^\circ \quad (0^\circ < x < 90^\circ)$$

$$\therefore (\sec x + \operatorname{cosec} x)^2 = (\sec 45^\circ + \operatorname{cosec} 45^\circ)^2$$

$$= (\sqrt{2} + \sqrt{2})^2$$

$$= (2\sqrt{2})^2$$

$$= 4(2)$$

$$= 8$$

Hence, the correct answer is Option C

Question 59

If 7129p465 is divisible by 9, then the value of p is:

- A 4
- B 3
- C 0
- D 2

Answer: D

Explanation:

Given, 7129p465 is divisible by 9

\Rightarrow Sum of digits of 7129p465 is divisible by 9

$\Rightarrow 7 + 1 + 2 + 9 + p + 4 + 6 + 5 = \text{multiple of } 9$

$\Rightarrow 34 + p = \text{multiple of } 9$

The only possibility for $34 + p$ is multiple of 9 is $p = 2$ as $0 \leq p \leq 2$

$\therefore p = 2$

Hence, the correct answer is Option D

Question 60

Mohan covers a distance of 2.5 km by scooter at the rate of 30 km/h. The time taken by Mohan to cover the given distance in minutes is:

- A 10
- B 6
- C 8
- D 5

Answer: D

Explanation:

Given,

Distance travelled = 2.5 km

Speed = 30 km/hr

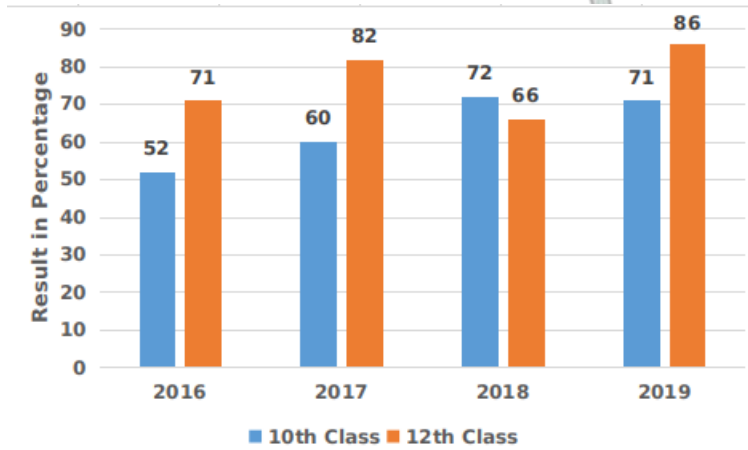
$$\text{Time taken} = \frac{\text{Distance travelled}}{\text{Speed}} = \frac{2.5}{30} \text{ hr} = \frac{25}{30 \times 10} \text{ hr} = \frac{25}{30 \times 10} \times 60 \text{ min} = 5 \text{ min}$$

Hence, The correct answer is Option D

SSC CHSL Free App

Question 61

The given bar graph represents the pass percentage of the 10th and 12th classes of a school during the consecutive four year period 2016-2019.



What is the average of pass percentage of the 10th class for all four years?

- A 65.25%
- B 63.25%
- C 65.75%
- D 63.75%

Answer: D

Explanation:

From the bar graph,

Pass Percentage of 10th class of school in 2016 = 52

Pass Percentage of 10th class of school in 2017 = 60

Pass Percentage of 10th class of school in 2018 = 72

Pass Percentage of 10th class of school in 2019 = 71

$$\therefore \text{Average of pass percentage of the 10th class for all four years} = \frac{52+60+72+71}{4} = \frac{255}{4} = 63.75\%$$

Hence, the correct answer is Option D

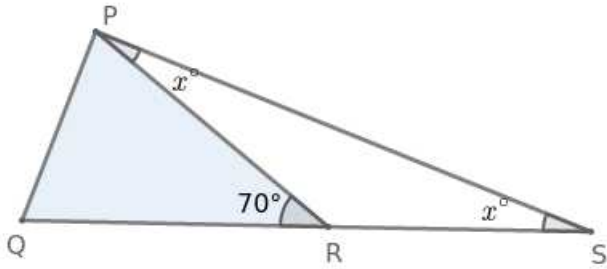
Question 62

Q. In $\triangle PQR$, the side QR is extended to S such that $RS = PR$. If $\angle QPS = 110^\circ$ and $\angle PRQ = 70^\circ$, then the value of $\angle PQR$ is

- A 50°
- B 40°
- C 45°
- D 35°

Answer: D

Explanation:



Let $\angle PSR = x$

From the figure,

$$\angle PRQ + \angle PRS = 180^\circ$$

$$\Rightarrow 70^\circ + \angle PRS = 180^\circ$$

$$\Rightarrow \angle PRS = 110^\circ$$

In $\triangle PRS$, $RS = PR$

Angles opposite to equal sides are equal

$$\Rightarrow \angle RPS = \angle PSR$$

$$\Rightarrow \angle RPS = x$$

$$\angle PRS + \angle RPS + \angle PSR = 180^\circ$$

$$\Rightarrow 110^\circ + x + x = 180^\circ$$

$$\Rightarrow 2x = 70^\circ$$

$$\Rightarrow x = 35^\circ$$

$$\Rightarrow \angle RPS = 35^\circ$$

Given, $\angle QPS = 110^\circ$

$$\Rightarrow \angle QPR + \angle RPS = 110^\circ$$

$$\Rightarrow \angle QPR + 35^\circ = 110^\circ$$

$$\Rightarrow \angle QPR = 75^\circ$$

In $\triangle PQR$,

$$\angle PQR + \angle PRQ + \angle QPR = 180^\circ$$

$$\Rightarrow \angle PQR + 70^\circ + 75^\circ = 180^\circ$$

$$\Rightarrow \angle PQR + 145^\circ = 180^\circ$$

$$\Rightarrow \angle PQR = 35^\circ$$

Hence, the correct answer is Option D

Question 63

In a $\triangle ABC$, $\angle ABC = 2\angle CAB$, If the side BC is extended to D and $\angle ACD = 126^\circ$, then $\angle CAB$ is:

A 36°

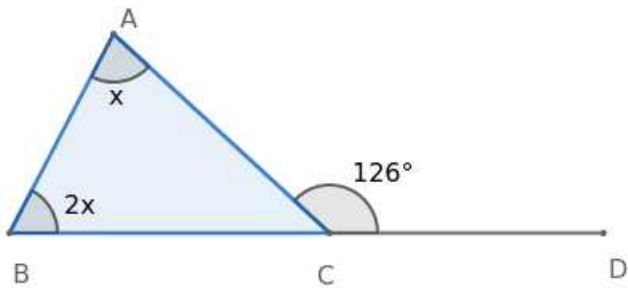
B 42°

C 84°

D 63°

Answer: B

Explanation:



Let $\angle CAB = x$

Given, $\angle ABC = 2\angle CAB$

$\Rightarrow \angle ABC = 2x$

In $\triangle ABC$,

$\angle ACD$ is the exterior angle at point C which is equal to the sum of the interior angles at points A and B

$\Rightarrow \angle ABC + \angle CAB = \angle ACD$

$\Rightarrow 2x + x = 126^\circ$

$\Rightarrow 3x = 126^\circ$

$\Rightarrow x = 42^\circ$

$\Rightarrow \angle CAB = 42^\circ$

Hence, the correct answer is Option B

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Question 64

The area of a rectangle is $a^2 - b^2$ and its length is $a + b$, what will be its breadth?

A $2ab$

B ab

C $a + b$

D $a - b$

Answer: D

Explanation:

Given, length of the rectangle = $a + b$

Let the breadth of the rectangle = w

According to the Problem, area of the rectangle = $a^2 - b^2$

$\Rightarrow (a + b) \times w = a^2 - b^2$

$\Rightarrow (a + b) \times w = (a + b)(a - b)$

$\Rightarrow w = a - b$

\therefore Breadth of the rectangle = $a - b$

Hence, the correct answer is Option D

Question 65

The average marks of Ravi in five subjects are 150, but in mathematics 43 was misread as 23 during the calculation. The correct average is:

- A 148
- B 150
- C 154
- D 160

Answer: C

Explanation:

Given,

The average marks of Ravi in five subjects = 150

Sum of the marks of Ravi in five subjects = $150 \times 5 = 750$

In Mathematics, 43 is misread as 23 during the calculation

\Rightarrow Correct sum of the marks of Ravi in five subjects = $750 - 23 + 43 = 770$

\therefore Correct average of the marks of Ravi in five subjects = $\frac{770}{5} = 154$

Hence, the correct answer is Option C

Question 66

The factors of the expression $2x^2 - 5x - 12$ are:

- A $(x + 4)$ and $(2x + 3)$
- B $(x + 4)$ and $(2x - 3)$
- C $(x - 4)$ and $(2x - 3)$
- D $(x - 4)$ and $(2x + 3)$

Answer: D

Explanation:

$$2x^2 - 5x - 12 = 2x^2 - 8x + 3x - 12$$

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

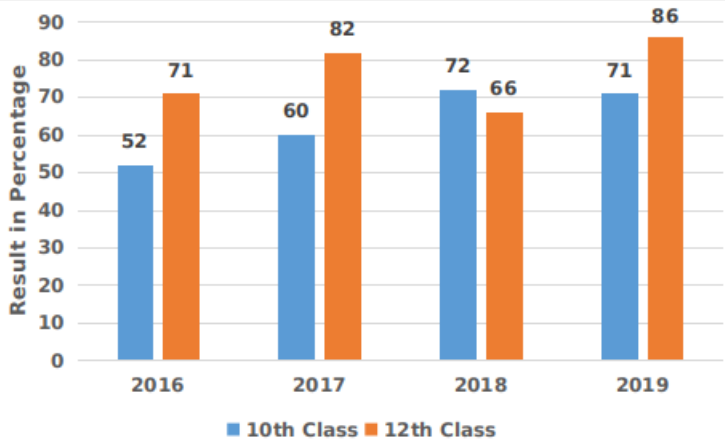
$$= (x - 4)(2x + 3)$$

\therefore The factors of the expression $2x^2 - 5x - 12$ are $(x - 4)$ and $(2x + 3)$

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Question 67

The given bar graph represents the pass percentage of 10th and 12th classes of a school during the consecutive four year period 2016-2019.



What is the average of percentage of the failed students of the 12th class for all four years?

- A 23%
- B 25.25%
- C 25.75%
- D 23.75%

Answer: D

Explanation:

From the bar graph,

Percentage of failed students of 12th class in 2016 = $100 - 71 = 29\%$

Percentage of failed students of 12th class in 2017 = $100 - 82 = 18\%$

Percentage of failed students of 12th class in 2018 = $100 - 66 = 34\%$

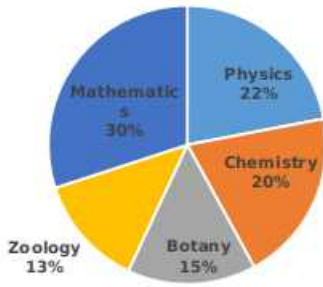
Percentage of failed students of 12th class in 2019 = $100 - 84 = 16\%$

\therefore Average of percentage of the failed students of the 12th class for all four years = $\frac{29+18+34+14}{4} = \frac{95}{4} = 23.75\%$

Hence, the correct answer is Option D

Question 68

Study the given pie-chart and table carefully and answer the question that follows. The percentage-wise distribution of lecturers in five different subjects in a university is shown in the pie-chart. The total number of lecturers is 500.



Ratio of male to female lecturers:

Lectures	Male:Females
Mathematics	7:03
Physics	2:03
Chemistry	4:01
Botany	3:05
Zoology	2:05

Find the number of male lecturers in Physics.

- A 46
- B 42
- C 44
- D 40

Answer: C

Explanation:

From the pie chart,

Percentage of lecturers in Physics = 22%

Number of lecturers in Physics = $\frac{22}{100} \times 500 = 110$

Ratio of male to female lecturers in Physics = 2 : 3

\therefore Number of male lecturers in Physics = $\frac{2}{2+3} \times 110 = \frac{2}{5} \times 110 = 44$

Hence, the correct answer is Option C

Question 69

The compound interest on ₹4,000 after 3 years is ₹630.50. Then the rate of interest compounded yearly is :

- A 7%
- B 6%
- C 8%
- D 5%

Answer: D

Explanation:

Given,

Principal (P) = ₹4,000

Time (T) = 3 years

Compound Interest = ₹630.50.

Let the rate of interest = R

$$\Rightarrow 4000 \left(1 + \frac{R}{100}\right)^3 - 4000 = 630.5$$

$$\Rightarrow 4000 \left(1 + \frac{R}{100}\right)^3 = 4630.5$$

$$\Rightarrow \left(1 + \frac{R}{100}\right)^3 = \frac{4630.5}{4000}$$

$$\Rightarrow \left(1 + \frac{R}{100}\right)^3 = \frac{9261}{8000}$$

$$\Rightarrow 1 + \frac{R}{100} = \sqrt[3]{\frac{9261}{8000}}$$

$$\Rightarrow \frac{R}{100} = \sqrt[3]{\frac{9261}{8000}} - 1$$

$$\Rightarrow \frac{R}{100} = \frac{1}{20}$$

$$\Rightarrow R = 5\%$$

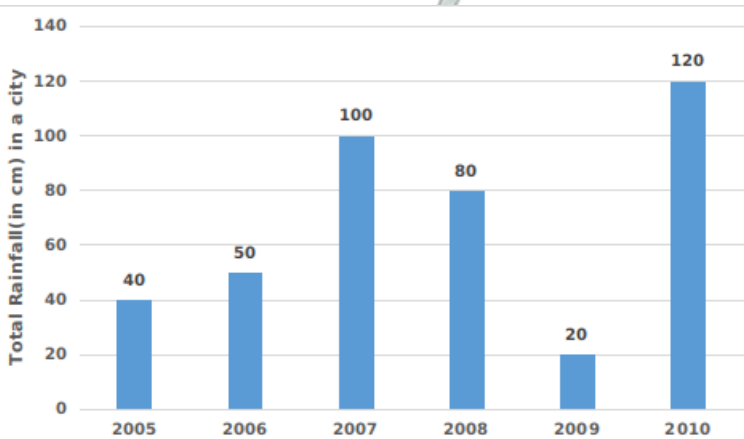
∴ Rate of interest = 5%

Hence, the correct answer is Option D

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Question 70

The given graph represents the rainfall (in cm) in a city, over a period of six years. Study the graph and answer the question that follows.



In which two consecutive years was the difference of the rainfall minimum?

A 2006 - 2007

B 2007 - 2008

C 2008 - 2009

D 2005 - 2006

Answer: D

Explanation:

From the graph,

Difference of rainfall of the two consecutive years 2005 - 2006 = $|50 - 40| = 10$

Difference of rainfall of the two consecutive years 2006 - 2007 = $|100 - 50| = 50$

Difference of rainfall of the two consecutive years 2007 - 2008 = $|80 - 100| = 20$

Difference of rainfall of the two consecutive years 2008 - 2009 = $|20 - 80| = 60$

∴ The difference of rainfall is minimum in the consecutive years 2005 - 2006

Hence, the correct answer is Option D

Question 71

Tap A can fill a tank in 6 hours and tap B can empty the same tank in 10 hours. If both taps are opened together, then how much time (in hours) will be taken to fill the tank?

- A 20
- B 15
- C 18
- D 16

Answer: B

Explanation:

Let the Volume of the tank = V

Given,

Tap A can fill the tank in 6 hours

$$\Rightarrow \text{Volume filled by Tap A in 1 hour} = \frac{V}{6}$$

Tap B can empty the tank in 10 hours

$$\Rightarrow \text{Volume emptied by Tap B in 1 hour} = \frac{V}{10}$$

$$\Rightarrow \text{Volume filled by both the taps in 1 hour} = \frac{V}{6} - \frac{V}{10} = \frac{5V - 3V}{30} = \frac{2V}{30} = \frac{V}{15}$$

$$\therefore \text{Number of hours required for both the taps to fill the tank} = \frac{V}{\frac{V}{15}} = 15 \text{ hours}$$

Hence, the correct answer is Option B

Question 72

If a and b are two positive real numbers such that $a + b = 20$ and $ab = 4$, then the value of $a^3 + b^3$ is:

- A 7760
- B 8000
- C 8240
- D 240

Answer: A

Explanation:

Given, $a + b = 20$ and $ab = 4$

$$\Rightarrow (a + b)^3 = 20^3$$

$$\Rightarrow a^3 + b^3 + 3ab(a + b) = 8000$$

$$\Rightarrow a^3 + b^3 + 3(4)(20) = 8000$$

$$\Rightarrow a^3 + b^3 + 240 = 8000$$

$$\Rightarrow a^3 + b^3 = 8000 - 240$$

$$\Rightarrow a^3 + b^3 = 7760$$

Hence, the correct answer is Option A

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Question 73

$\frac{\cos x}{1+\sin x} + \frac{1+\sin x}{\cos x}$ is equal to:

- A $2 \cos x$
- B $2 \operatorname{cosec} x$
- C $2 \sin x$
- D $2 \sec x$

Answer: D

Explanation:

$$\begin{aligned}\frac{\cos x}{1+\sin x} + \frac{1+\sin x}{\cos x} &= \frac{\cos x}{1+\sin x} \times \frac{1-\sin x}{1-\sin x} + \frac{1+\sin x}{\cos x} \\ &= \frac{\cos x(1-\sin x)}{(1-\sin^2 x)} + \frac{1}{\cos x} + \frac{\sin x}{\cos x} \\ &= \frac{\cos x(1-\sin x)}{\cos^2 x} + \sec x + \tan x \\ &= \frac{1-\sin x}{\cos x} + \sec x + \tan x \\ &= \frac{1}{\cos x} - \frac{\sin x}{\cos x} + \sec x + \tan x \\ &= \sec x - \tan x + \sec x + \tan x \\ &= 2 \sec x\end{aligned}$$

Hence, the correct answer is Option D

Question 74

The value of $27 + [3(50 - 20) + 168 \div 4 + 2 - 11 \times 2]$ is:

- A 149
- B 239
- C 245
- D 139

Answer: D

Explanation:

$$\begin{aligned}27 + [3(50 - 20) + 168 \div 4 + 2 - 11 \times 2] &= 27 + [3(30) + 168 \div 4 + 2 - 11 \times 2] \\ &= 27 + [90 + 42 + 2 - 11 \times 2] \\ &= 27 + [90 + 42 + 2 - 22] \\ &= 27 + [132 - 20] \\ &= 27 + 112 \\ &= 139\end{aligned}$$

Hence, the correct answer is Option D

Question 75

If the marked price of a television set is ₹24,500, then its selling price after a 12% discount on it is:

A ₹21,460

B ₹21,640

C ₹21,650

D ₹21,560

Answer: D

Explanation:

Given,

Marked Price of the television set = ₹24,500

Discount% = 12%

$$\Rightarrow \text{Discount} = \frac{12}{100} \times 24500 = 2940$$

$$\therefore \text{Selling Price} = 24,500 - 2940 = ₹21,560$$

Hence, the correct answer is Option D

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General Awareness

Instructions

For the following questions answer them individually

Question 76

To whom did Mahatma Gandhi give the title 'Deen Bandhu'?

A Abdul Ghaffar Khan

B Rajendra Prasad

C Rabindra Nath Tagore

D CF Andrews

Answer: D

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Question 77

Goods and Services Tax (GST) was enacted by Parliament vide _____ Constitutional Amendment Act, 2016 on 8th September 2016.

A 101st

B 105th

C 103rd

D 107th

Answer: A

Question 78

In the context of computing, a byte is equal to _____ bits.

- A 4
- B 24
- C 8
- D 16

Answer: C

Question 79

Which among the following is a vaccine developed by CSIR, Ministry of Science and Technology for Johne's disease affecting sheep, Goat, Cow and Buffalo so as to immunize them and increase milk and meat production ?

- A Infectious Bovine Rhinotracheitis vaccine
- B Porcine Parvovirus vaccine
- C DIVA (Differentiating Infected from Vaccinated Animals)
- D JD Vaccine

Answer: D

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Question 80

Tagore Centre for the Study of Culture and Civilization is located in _____.

- A West Bengal
- B Himachal Pradesh
- C Madhya Pradesh
- D Andhra Pradesh

Answer: B

Question 81

As per the Constitution ninety-first amendment act, 2003, the total number of Ministers, including the Chief Minister, in the Council of Ministers in a State cannot exceed _____ of the total number of members of the Legislative Assembly of that State.

- A 20%
- B 25%
- C 15%
- D 10%

Answer: C

Question 82

Which of the following movies won the Golden Globe 2020 award for 'Best Motion Picture-Drama'?

- A 1917

- B The Two Popes
- C The Irishman
- D Joker

Answer: A

SSC CHSL Free Mock Test

Question 83

Who among the following was elected as the Jharkhand Assembly Speaker in January 2020?

- A Rabindra Nath Mahato
- B Draupadi Murmu
- C Champai Soren
- D Stephen Marandi

Answer: A

Question 84

Which of the following environmental movements/conflicts of India was directly related to the prevention of felling of trees?

- A Chipko Movement
- B Tehri Dam Conflict
- C Narmada Bachao Andolan
- D Save Silent Valley Movement

Answer: A

Question 85

Which of the following carries blood from the heart to the kidneys?

- A Coronary artery
- B Vena cava
- C Renal artery
- D Renal vein

Answer: C

SSC CHSL Previous Papers (DOWNLOAD PDF)

Question 86

Which of the following teams won the Diamond Jubilee edition of the 'Subroto Cup International Football Tournament' for sub-junior boys (under-14) category in August 2019?

- A Mizoram's Saidan Secondary School

- B Chandigarh's Government Model High School
- C Bangladesh's Krira Shikkha Protishtan
- D Manipur's Unique Model Academy

Answer: A

Question 87

'Daskathia' is a form of ballad singing prevalent in _____.

- A Goa
- B Telangana
- C Odisha
- D Sikkim

Answer: C

Question 88

Which of the following statements is correct?

- A The President submits his resignation to the Prime Minister.
- B The President submits his resignation to the Vice-President.
- C The President submits his resignation to the Speaker of the Lok Sabha.
- D The President submits his resignation to the Chief Justice of India.

Answer: B

SSC CGL Previous Papers (DOWNLOAD PDF)

Question 89

As of 15 January 2020, which of the following nations was the Number one ranked ODI team in the ICC Men's ODI Team Rankings?

- A India
- B South Africa
- C England
- D New Zealand

Answer: C

Question 90

In which of the following years did Sarojini Naidu preside over the Indian National Congress session?

- A 1925
- B 1945
- C 1935

D 1915

Answer: A

Question 91

Which of the following animals is used for transport in Tibet?

A Camel

B Llama

C Bullock

D Yak

Answer: D

SSC CGL Free Mock Test (Latest Pattern)

Question 92

Who among the following formulates the monetary policy in India?

A Finance Commission of India

B Reserve Bank of India

C NITI Aayog

D The Ministry of Statistics and Programme Implementation

Answer: B

Question 93

The _____ layer starts at Earth's surface and extends 8 to 14.5 km high (5 to 9 miles). This part of the atmosphere is the densest and almost all weather is in this region.

A Ionosphere

B Troposphere

C Stratosphere

D Mesosphere

Answer: B

Question 94

Who among the following won the 'Golden Globe 2020' award for 'Best Performance by an Actor in a Motion Picture - Drama'?

A Joaquin Phoenix

B John David Washington

C Lucas Hedges

D Jonathan Pryce

Answer: A

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Question 95

Which of the following is a type of memory and is similar to RAM? It is used by computers to move data between the RAM and the CPU.

- A ROM
- B I Beam
- C Cache
- D Hypertext Link

Answer: C

Question 96

As of 15 January 2020, who among the following was the Number one ranked women tennis player in the WTA rankings?

- A Simona Halep
- B Karolina Pliskova
- C Serena Williams
- D Ashleigh Barty

Answer: D

Question 97

Who among the following won 'ICC Women's ODI Cricketer of the Year 2019'?

- A Ellyse Perry
- B Smriti Mandhana
- C Chanida Sutthiruang
- D Alyssa Healy

Answer: A

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Question 98

The State Government of Goa launched the 'Swasthya Sakhi Project' in January 2020 to ensure the:

- A wellness and welfare of women
- B wellness and welfare of rural men or women
- C overall health of new-born female children
- D overall health of new-born children

Answer: A

Question 99

Hardwood trees like sal, teak, neem and shisham (useful for making furniture, transport and constructional material) are found in which type of forests?

- A Mediterranean Vegetation
- B Coniferous Forests
- C Temperate Deciduous Forests
- D Tropical Deciduous Forests

Answer: D

Question 100

Robert has sandy soil in his fields. The ideal crop for his field is:

- A Corn
- B Wheat
- C Cabbage
- D Gram

Answer: A

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