



SSC CHSL 19th March 2020 Shift-2

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English Language (Basic Knowledge)

Instructions

For the following questions answer them individually

Question 1

Select the most appropriate meaning of the given idiom.

Reinventing the wheel

- A Disturbing the system which has already been in use
- B Wasting one's time for things that have already been satisfactorily done
- C Analysing various factors of happenings
- D Examining circumstances that have already been understood

Answer: B

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Question 2

Select the correct indirect form of the given sentence.

Nakul asked her, "How do you know that Rahul has told it to him?"

- A Nakul asked her how she knew that Rahul had told that to him.
- B Nakul asked her that how she has known that Rahul has told that to him.
- C Nakul asked her how she knew that Rahul has told that to him.
- D Nakul asked her that how she knows that Rahul had told that to him.

Answer: A

Question 3

Select the most appropriate ANTONYM of the given word.

TAME

- A Upset
- B Restrain
- C Sanctify
- D Control

Answer: A

Question 4

Select the most appropriate synonym of the given word.

TARNISH

- A Damage
- B Decorate
- C Appease

D Heighten

Answer: A

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Instructions

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

Forest fire always (1)_____ by one of two reasons-naturally caused or human-caused. Natural fire is generally (2)_____ by lightning, with a very small percentage (3)_____ by spontaneous combustion of dry fuel such as saw dust and leaves.(4)_____, human-caused fire can happen (5)_____ any number of reasons.

Question 5

Select the most appropriate option for blank No.1.

A takes up

B happens

C causes

D creates

Answer: B

Question 6

Select the most appropriate option for blank No.2.

A causedna

B reasonedaw

C begun7

D troubled

Answer: A

Question 7

Select the most appropriate option for blank No.3.

A achieved

B gathered

C contributed

D attained

Answer: C

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Question 8

Select the most appropriate option for blank No.4.

- A Consequentlya
- B At the outseta
- C Unless4
- D Onthe other hand

Answer: D

Question 9

Select the most appropriate option for blank No. 5.

- A due to
- B since
- C hence forth
- D because

Answer: A

Instructions

For the following questions answer them individually

Question 10

In the sentence identify the segment which contains the grammatical error.
Cats cannot be blamed for its behaviour to their masters as they are tamed so.

- A for its behaviour
- B to their masters
- C as they are tamed so
- D Cats cannot be blamed

Answer: A

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Question 11

Select the correct passive form of the given sentence.
This android can perform all the programmes perfectly well.

- A All the programmes can be performed perfectly well by this android.
- B All the programmes could have been performed perfectly well by this android.
- C All the programmes can have been performed perfectly well by this android.
- D All the programmes could be performed perfectly well by this android.

Answer: A

Question 12

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

- A. He was on a pilgrimage to Jerusalem.
- B. The villagers were kind though doubtful.
- C. They offered him some food to eat and a room to stay.
- D. One night, he took rest in a village unfamiliar on the way.

- A DCAB
- B CDBA
- C ADBC
- D CADB

Answer: C

Question 13

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".

She is tender-hearted by nature and I have found her eyes moist many a times over the sad face of any children.

- A so many times
- B many time
- C No improvement
- D manya time

Answer: C

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Question 14

Select the wrongly spelt word.

- A Scrutinize
- B Sympathize
- C Compromize
- D Colonize

Answer: C

Question 15

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

Some of the issues discussed on the media now a days has no relevance to the nation-building process

- A to the nation-building process
- B has no relevance
- C on the media now a days

D Some of the issues discussed

Answer: B

Question 16

Select the word which means the same as the group of words given.
A person living in the same age with another

A Partner

B Collaborator

C Contemporary

D Confidant

Answer: C

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Question 17

Select the most appropriate synonym of the given word.
PLEASANT

A Tiresome

B Tedious

C Refreshing

D Exasperating

Answer: C

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".

The selection to the police department raised him as high to a kite.

A as high as

B No improvement

C so high to

D so high so

Answer: A

Question 19

Select the most appropriate meaning of the given idiom.

Falling head over heels

A Falling deeply in love with some one

B Feeling deep sympathy to the needy

C Fixing models without proper analysis

D Finding fault with others

Answer: A

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Question 20

Select the most appropriate ANTONYM of the given word.

DISPUTE

A Strengthen

B Quarrel

C Impute

D Concede

Answer: D

Question 21

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

A situation requiring a choice between equally undesirable alternatives or confusions

A Sophistication

B Instability

C Dilemma

D Complication

Answer: C

Question 22

Select the most appropriate word to fill in the blank.

☐

Children need special care and ____ from the side of their parents for making them emotionally strong.

A suspicion

B attention

C reflection

D compromise

Answer: B

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Question 23

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

- A. The driver had a cloudy look and drove off without taking him.
- B. He asked a taxi driver to take him to the shopping mall.
- C. He told the driver that he could pay the fare by card, not in cash.
- D. He arrived on the outskirts of a city.

- A DBCA
- B ACDB
- C DCAB
- D CDBA

Answer: A

Question 24

Select the wrongly spelt word.

- A Tolerate
- B Temperate
- C Accomodate
- D Promulgate

Answer: C

Question 25

Select the most appropriate word to fill in the blank.

Unnecessary suspicion and lack of trust against the others are caused by ____.

- A prejudice
- B contentment
- C impartiality
- D empathy

Answer: A

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General Intelligence

Instructions

For the following questions answer them individually

Question 26

Three of the following four words are alike in a certain way and one is different. Select the odd one.

- A South Africa

- B Europe
- C Africa
- D North America

Answer: A

Explanation:

Europe, Africa, North America are continents whereas South Africa is not a continent.

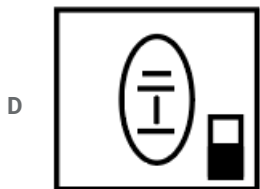
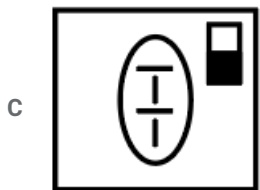
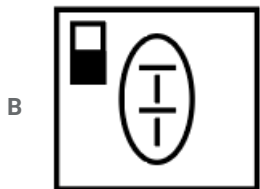
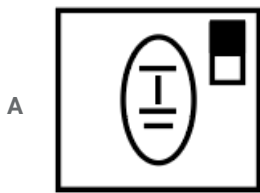
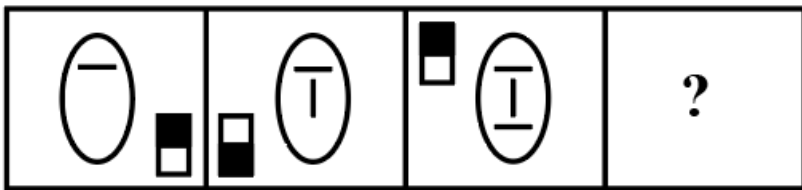
∴ South Africa is the odd one among the given words.

Hence, the correct answer is Option A

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Question 27

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



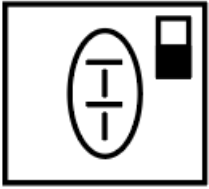
Answer: C

Explanation:

In the given series,

The black square is moving one place in clockwise direction along the edge and also changing its position up and down alternatively.

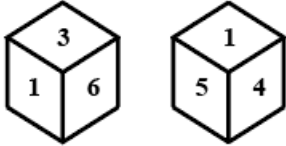
∴ The next figure in the given series is



Hence, the correct answer is Option C

Question 28

Two different positions of the same dice are shown below, the six faces of which are numbered 1 to 6. Which number is on the face opposite the face showing 1?



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

Answer: B

Explanation:

From the first position of dice, 1 is not opposite to 3 and 6

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

⇒ 1 is opposite to the remaining number 2

∴ 2 will be on the face opposite to the face showing 1.

Hence, the correct answer is Option B

Question 29

Select the correct mirror image of the given letter cluster when a vertical mirror is placed on the right of the cluster.

FGERM

- A **MGERF**
- B **MRFER**
- C **FERGM**
- D **FRGEM**

Answer: B

Explanation:

When the mirror is placed on the right side of the letter cluster,

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.

∴ The mirror image of the given letter cluster is

Hence, the correct answer is Option B

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Question 30

In a certain code language, 'STAFF' is written as 'RTSUZBEGEG'. How will 'ORDER' be written as in that language?

- A NQRSCDFRS
- B NPQSCEDFQS
- C OPQTCEDFQS
- D NPQSCEGFQT

Answer: B

Explanation:

Given, STAFF is written as RTSUZBEGEG in the code language

The logic here is

S → RT

T → SU

A → ZB

F → EG

F → EG

The previous and next letter of the letter is coded in the code language.

Similarly,

O → NP

R → QS

D → CE

E → DF

R → QS

∴ ORDER is written as NPQSCEDFQS in the code language.

Hence, the correct answer is Option B

Question 31

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

Gloves : Hands :: Shoes : ?

- A Cobbler
- B Leather
- C Feet
- D Knee

Answer: C

Explanation:

Gloves are used to the Hands. Similarly, Shoes are used to the Feet.

∴ Feet are related to Shoes in the same way Hands are related to the Gloves.

Hence, the correct answer is Option C

Question 32

Select the option in which the number set shares the same relationship as that shared by the given number set.

(11, 17, 204)

A (22, 14, 318)

B (24, 13, 225)

C (12, 21, 273)

D (9, 13, 147)

Answer: C

Explanation:

The logic here is

$$17 + (11 \times 17) = 17 + 187 = 204$$

The third number is the sum of second number and the product of first and second number.

Similarly,

$$21 + (12 \times 21) = 21 + 252 = 273$$

∴ (12, 21, 273) shares the same relationship as that shared by (11, 17, 204).

Hence, the correct answer is Option C

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Question 33

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

50, 49, 53, 44, 60, 35, ?

A 71

B 117

C 70

D 104

Answer: A

Explanation:

The given series is 50, 49, 53, 44, 60, 35, ?

$$49 - 50 = -1$$

$$53 - 49 = 4$$

$$44 - 53 = -9$$

$$60 - 44 = 16$$

$$35 - 60 = -25$$

The difference between the numbers of the series are negative value and positive value of the squares of the consecutive numbers alternatively.

Similarly, the next difference should be 36.

Let the required number be a

$$\Rightarrow a - 35 = 36$$

$$\Rightarrow a = 36 + 35$$

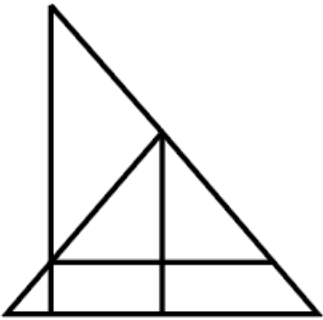
$$\Rightarrow a = 71$$

\therefore The required number is 71.

Hence, the correct answer is Option A

Question 34

How many triangles are there in the figure given below?



A 8

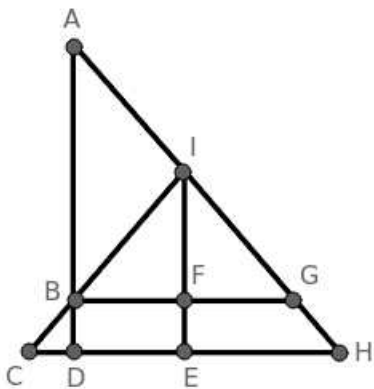
B 9

C 11

D 10

Answer: D

Explanation:



The different triangles in the given figure is IBG, IBF, IFG, ICH, ICE, IEH, ABI, ABG, ADH, BCD.

\therefore Number of triangles in the figure = 10

Hence, the correct answer is Option D

Question 35

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

K _ _ MKXZ _ KX _ MK _ ZM

A XZMZK

B MZMZX

C XXMKX

D XZMZX

Answer: D

Explanation:

By Trial and Error method,

Option A

K X Z M | K X Z M | K X Z M | K K Z M

The above letters do not form a series. Hence option A is incorrect.

Option B

K M Z M | K X Z M | K X Z M | K X Z M

The above letters do not form a series. Hence option B is incorrect.

Option C

K X X M | K X Z M | K X K M | K X Z M

The above letters do not form a series. Hence option C is incorrect.

Option D

K X Z M | K X Z M | K X Z M | K X Z M

The above letters form a series.

Hence, the correct answer is Option D

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Question 36

Select the option in which the number set shares the same relationship as that shared by the given number set.

(52, 48, 64)

A (61, 55, 36)

B (70, 62, 441)

C (82, 78, 81)

D (92, 90, 8)

Answer: D

Explanation:

The logic here is

$$(52 - 48)^3 = 4^3 = 64 \rightarrow (\text{first number} - \text{second number})^3 = \text{third number}$$

Similarly,

$$(92 - 90)^3 = 2^3 = 8 \rightarrow (\text{first number} - \text{second number})^3 = \text{third number}$$

\therefore (92, 90, 8) shares the same relationship as (52, 48, 64).

Hence, the correct answer is Option D

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.

NR : MI :: BK : ?

- A XM
- B YU
- C OP
- D YP

Answer: D

Explanation:

Given, MI is related to NR

The logic here is

N opposite is M

R opposite is I

Similarly,

B opposite is Y

K opposite is P

∴ YP is related to BK in the same way MI is related to NR.

Hence, the correct answer is Option D

Question 38

Select the correct alternative to indicate the arrangement of the following words in a logical and meaningful order.

1. Mount Abu
2. World
3. India
4. Rajasthan
5. Nakki Lake

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

Answer: A

Explanation:

Nakki Lake is situated in the hill station Mount Abu. Mount Abu is in Rajasthan. Rajasthan is in India. India is part of the World.

∴ The logical and meaningful order of the given words is Nakki Lake, Mount Abu, Rajasthan, India, World.

Hence, the correct answer is Option A

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Question 39

In a batch of 68 students, 23 students do not participate in any of the two games i.e. cricket and squash. 17 students participate in cricket only, 24 students participate in cricket and squash. How many students participate in squash only?

- A 28
- B 4
- C 21

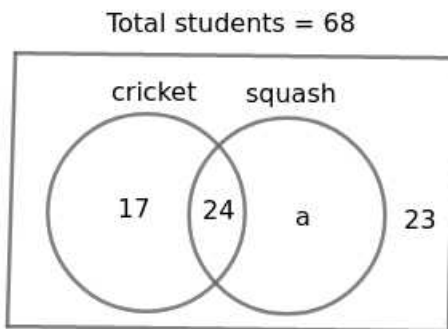
D 20

Answer: B

Explanation:

Let the number of students who participate in squash only = a

The given information is represented in the Venn diagram as shown below



From the Venn diagram,

$$17 + 24 + a + 23 = 68$$

$$\Rightarrow 64 + a = 68$$

$$\Rightarrow a = 4$$

\therefore Number of students who participate in squash only = 4

Hence, the correct answer is Option B

Question 40

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

3 : 67 :: 6 : ?

A 349

B 55

C 42

D 222

Answer: A

Explanation:

Given, 67 is related to 3

The logic here is

$$3 + (3 + 1)^3 = 3 + 4^3 = 67 \rightarrow \text{first number} + (\text{first number} + 1)^3 = \text{second number}$$

Similarly,

$$6 + (6 + 1)^3 = 6 + 7^3 = 349 \rightarrow \text{first number} + (\text{first number} + 1)^3 = \text{second number}$$

\therefore 349 is related to 6 in the same way 67 is related to 3.

Hence, the correct answer is Option A

Question 41

Which two signs and two numbers should be interchanged to make the given equation correct?

$$16 + 8 \times 25 - 15 \div 5 = 138$$

A \times and $+$; 15 and 25

B \div and $-$; 15 and 5

C \times and $-$; 8 and 25

D \times and $+$; 8 and 25

Answer: A

Explanation:

By Trial and Error method,

Option A

$$16 \times 8 + 15 - 25 \div 5 = 138$$

$$16 \times 8 + 15 - 5 = 138$$

$$128 + 15 - 5 = 138$$

$$138 = 138$$

Hence, the correct answer is Option A

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Question 42

In a certain code language, 'WORKSHOP' is written as '231518118191211'. How will 'NOVEMBER' be written as in that language?

A 13172251325229

B 14142251424228

C 14152251425229

D 11151251422227

Answer: C

Explanation:

Given, WORKSHOP is written as 231518118191211 in the code language.

WORKSHOP \rightarrow 23 15 18 11 8 19 12 11

The logic here is

$$W = 23 \rightarrow 23$$

$$O = 15 \rightarrow 15$$

$$R = 18 \rightarrow 18$$

$$K = 11 \rightarrow 11$$

$$\text{S opposite is H} \rightarrow H = 8 \rightarrow 8$$

$$\text{H opposite is S} \rightarrow S = 19 \rightarrow 19$$

$$\text{O opposite is L} \rightarrow L = 12 \rightarrow 12$$

$$\text{P opposite is K} \rightarrow K = 11 \rightarrow 11$$

For the first four letters of the word, value of the letters is coded. For the last four letters of the word, value of the opposite letters is coded.

Similarly,

$$N = 14 \rightarrow 14$$

$$O = 15 \rightarrow 15$$

V = 22 \rightarrow 22

E = 5 \rightarrow 5

M opposite is N \rightarrow N = 14 \rightarrow 14

B opposite is Y \rightarrow Y = 25 \rightarrow 25

E opposite is V \rightarrow V = 22 \rightarrow 22

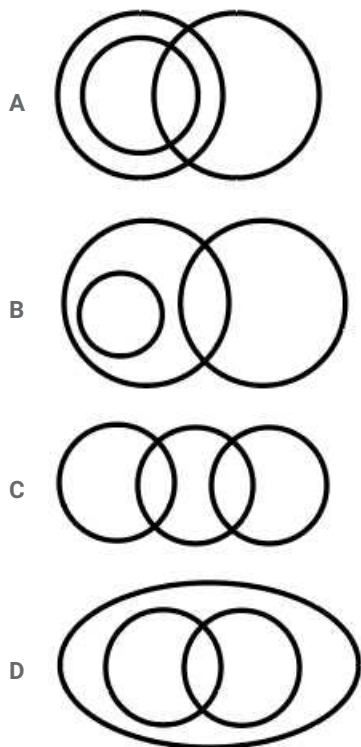
R opposite is I \rightarrow I = 9 \rightarrow 9

\therefore NOVEMBER is written as 14152251425229 in the code language.

Hence, the correct answer is Option C

Question 43

Select the Venn diagram that best represents the relationship between the following classes.
Infants, Males, Fathers

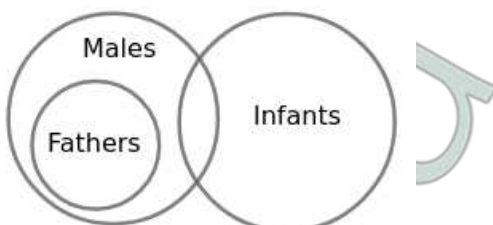


Answer: B

Explanation:

All Fathers are Males. Some Infants are Males. Infants cannot be Fathers.

\therefore The Venn diagram that best represents the relationship between the given classes is



Hence, the correct answer is Option B

Question 44

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

A Office : Employee

- B Summer : Season
- C Bottle : Water
- D Crop : Farmer

Answer: B

Explanation:

Diabetes is a Disease. Similarly, Summer is a Season.

∴ Summer and Season are related in the same way Diabetes and Disease are related.

Hence, the correct answer is Option B

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Question 45

Three of the following four letter-clusters are alike in a certain way and one is different. Select the odd one.

- A AEIM
- B SVZD
- C RVZD
- D CGKO

Answer: B

Explanation:

In the letter-clusters AEIM, RVZD, CGKO, the number of letters between the letters of the letter-clusters are 3.

In SVZD, the number of letters between S and V is 2.

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

Hence, the correct answer is Option B

Question 46

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:

No plastic is iron.

All steel is iron.

Conclusions:

I. Some plastic is steel.

II. Some iron is steel.

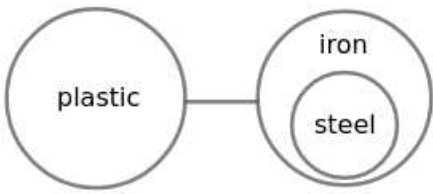
III. No steel is plastic.

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

Answer: B

Explanation:

The basic diagram for the given statements is



I. Some plastic is steel

From the basic diagram, no plastic is steel. Hence conclusion I do not follow.

II. Some iron is steel

From the basic diagram, some iron is steel. Hence conclusion II follows.

III. No steel is plastic

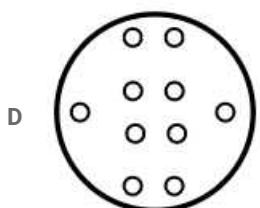
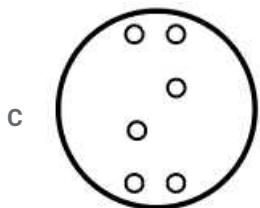
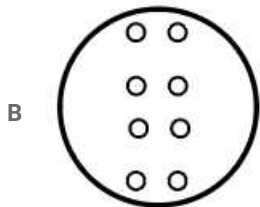
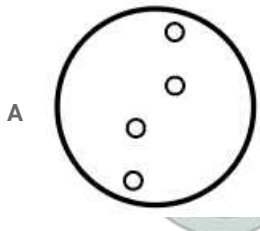
From the basic diagram, no steel is plastic. Hence conclusion III follows.

∴ Only conclusions II and III follow the given statements.

Hence, the correct answer is Option B

Question 47

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

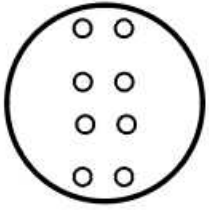
Explanation:

When the paper is cut and unfolded, the pattern of cutting will be similar in the top parts of the circle.

When the paper is unfolded first, two circles will appear similarly on the bottom right part of the circle.

When the paper is unfolded again to the left, two circles each will appear similarly on the top and bottom left part of the circle.

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



Hence, the correct answer is Option B

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Question 48

In a certain code, 'sky is blue' is written as '815'; 'blue and red' is written as '725'; 'Ram likes red' is coded as '203'; 'Sita and Ram' is written as '379'. What will be the code for 'Ram likes blue'?

- A 257
- B 512
- C 573
- D 503

Answer: D

Explanation:

In the code language,

'sky is blue' is written as '815'(1)

'blue and red' is written as '725'(2)

'Ram likes red' is coded as '203'(3)

'Sita and Ram' is written as '379'(4)

Comparing (1) and (2), the code for 'blue' is '5'

Comparing (3) and (4), the code for 'Ram' is '3'

Comparing (2) and (3), the code for 'red' is '2'

From (3), the code for remaining word 'likes' is '0'

∴ The code for 'Ram likes blue' is '503'

Hence, the correct answer is Option D

Question 49

Select the option figure which contains figure X embedded in it as its part. (Rotation is not allowed)



Figure X

A



B



C



D



Answer: D

Explanation:

The given figure X is embedded in the figure 4 as shown below



Hence, the correct answer is Option D

Question 50

Pointing to the photograph of Amit, Gagan said, 'His sister's mother's husband is my daughter's mother's husband's father.' How is Amit related to Gagan?

A Nephew

B Father

C Maternal uncle

D Brother

Answer: D

Explanation:

According to the problem,

Amit's sister's mother's husband is Gagan's daughter's mother's husband's father

Sister's mother is mother. Daughter's mother is wife.

⇒ Amit's mother's husband is Gagan's wife's husband's father

Mother's husband is Father. Wife's husband is Gagan himself.

⇒ Amit's father is Gagan's father

∴ Amit is the brother of Gagan

Hence, the correct answer is Option D

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Quantitative Aptitude(Basic Arithmetic Skill)

Instructions

For the following questions answer them individually

Question 51

The area of an isosceles right angled triangle is 121 cm^2 . Find its hypotenuse.

A 23 cm

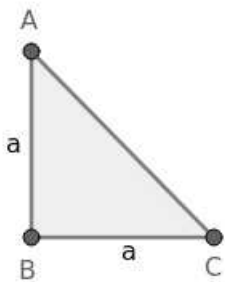
B 20 cm

C 22 cm

D 21 cm

Answer: C

Explanation:



Let the base and height of the isosceles right angled triangle = a

$$\text{Area of the triangle} = \frac{1}{2} \times \text{base} \times \text{height} = \frac{1}{2} \times a \times a = \frac{1}{2}a^2$$

Given, area of the triangle = 121 cm^2

$$\Rightarrow \frac{1}{2}a^2 = 121$$

$$\Rightarrow a = 11\sqrt{2}$$

In the isosceles right angled triangle,

$$\text{Hypotenuse}^2 = a^2 + a^2$$

$$\Rightarrow \text{Hypotenuse}^2 = 2a^2$$

$$\Rightarrow \text{Hypotenuse}^2 = 2(11\sqrt{2})^2$$

$$\Rightarrow \text{Hypotenuse}^2 = 121 \times 4$$

⇒ Hypotenuse = 22 cm

Hence, the correct answer is Option C

SSC CGL Free Mock Test (Latest Pattern)

Question 52

The distance between the centres of two equal circles each of radius 4 cm is 17 cm. The length of a transverse tangent is:

- A 14 cm
- B 16 cm
- C 19 cm
- D 15 cm

Answer: D

Explanation:

Given, distance between centres of the circles (d) = 17 cm

Radius of the two circles (r_1, r_2) = 4 cm

$$\therefore \text{Length of the transverse common tangent} = \sqrt{d^2 - (r_1 + r_2)^2}$$

$$= \sqrt{17^2 - (4 + 4)^2}$$

$$= \sqrt{289 - 64}$$

$$= \sqrt{225}$$

$$= 15 \text{ cm}$$

Hence, the correct answer is Option D

Question 53

A car covered 150 km in 5 hours. If it travels at one-third its usual speed, then how much more time will it take to cover the same distance?

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

Answer: C

Explanation:

Given, the car covered 150 km in 5 hours

$$\text{Speed of the car} = \frac{150}{5} = 30 \text{ km/h}$$

$$\text{One third of the speed} = \frac{1}{3} \times 30 = 10 \text{ km/h}$$

$$\text{Time required for the car to cover 150 km with one third speed} = \frac{\text{Distance}}{\text{Speed}} = \frac{150}{10} = 15 \text{ hours}$$

$$\therefore \text{Extra time required to cover the distance with one third speed} = 15 - 5 = 10 \text{ hours}$$

Hence, the correct answer is Option C

Question 54

The printed price on a book is ₹ 150. If it is sold after two successive discounts of 30% and 40%, then find its selling price.

- A ₹ 63
- B ₹ 64
- C ₹ 66
- D ₹ 65

Answer: A

Explanation:

Given, printed price on the book = ₹ 150

Price of the book after 30% discount = $\frac{70}{100} \times 150 = ₹ 105$

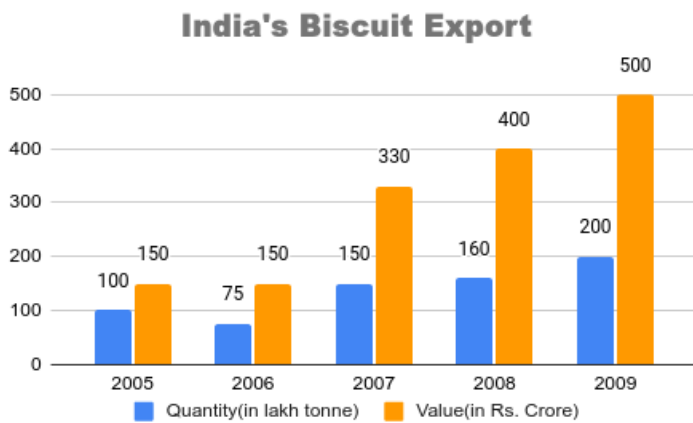
Selling price of the book after 40% discount = $\frac{60}{100} \times 105 = ₹ 63$

Hence, the correct answer is Option A

SSC CHSL Important Questions and Answers (Download PDF)

Question 55

The given bar graph shows the biscuit exports of India over a period of five years. Study the graph and answer the question that follow.



In which two years was the value per tonne equal?

- A 2006 and 2007
- B 2008 and 2009
- C 2007 and 2008
- D 2005 and 2006

Answer: B

Explanation:

From the bar graph,

Value per tonne of the exports in 2005 = $\frac{150}{100} = 1.5$ crore/lakh tonne = 1.5×10^{-5} crore/tonne

Value per tonne of the exports in 2006 = $\frac{150}{75} = 2$ crore/lakh tonne = 2×10^{-5} crore/tonne

Value per tonne of the exports in 2007 = $\frac{330}{150} = 2.2$ crore/lakh tonne = 2.2×10^{-5} crore/tonne

Value per tonne of the exports in 2008 = $\frac{400}{160} = 2.5$ crore/lakh tonne = 2.5×10^{-5} crore/tonne

Value per tonne of the exports in 2009 = $\frac{500}{200} = 2.5$ crore/lakh tonne = 2.5×10^{-5} crore/tonne

∴ In 2008 and 2009, value per tonne is equal.

Hence, the correct answer is Option B

Question 56

If $2 \cot \theta = 3$, then $\frac{\sqrt{13} \cos \theta - 3 \tan \theta}{3 \tan \theta + \sqrt{13} \sin \theta}$ is:

A $\frac{3}{4}$

B $\frac{1}{4}$

C $\frac{2}{3}$

D $\frac{1}{5}$

Answer: B

Explanation:

Given, $2 \cot \theta = 3$

$\Rightarrow \cot \theta = \frac{3}{2}$

$\tan \theta = \frac{2}{3}$

$\operatorname{cosec} \theta = \sqrt{1 + \cot^2 \theta} = \sqrt{1 + \left(\frac{3}{2}\right)^2} = \sqrt{1 + \frac{9}{4}} = \sqrt{\frac{13}{4}} = \frac{\sqrt{13}}{2}$

$\sin \theta = \frac{2}{\sqrt{13}}$

$\cos \theta = \sqrt{1 - \sin^2 \theta} = \sqrt{1 - \frac{4}{13}} = \sqrt{1 - \left(\frac{2}{\sqrt{13}}\right)^2} = \sqrt{\frac{9}{13}} = \frac{3}{\sqrt{13}}$

$\therefore \frac{\sqrt{13} \cos \theta - 3 \tan \theta}{3 \tan \theta + \sqrt{13} \sin \theta} = \frac{\sqrt{13} \left(\frac{3}{\sqrt{13}}\right) - 3 \left(\frac{2}{3}\right)}{3 \left(\frac{2}{3}\right) + \sqrt{13} \left(\frac{2}{\sqrt{13}}\right)}$

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

$= \frac{1}{4}$

Hence, the correct answer is Option B

Question 57

If $x^4 + \frac{1}{x^4} = 14159$, then the value of $x + \frac{1}{x}$ is:

A 11

B 12

C 9

D 10

Answer: A

Explanation:

Given, $x^4 + \frac{1}{x^4} = 14159$

$$\Rightarrow x^4 + \frac{1}{x^4} + 2 = 14159 + 2$$

$$\Rightarrow \left(x^2 + \frac{1}{x^2}\right)^2 = 14161$$

$$\Rightarrow \left(x^2 + \frac{1}{x^2}\right)^2 = (119)^2$$

$$\Rightarrow x^2 + \frac{1}{x^2} = 119$$

$$\Rightarrow x^2 + \frac{1}{x^2} + 2 = 119 + 2$$

$$\Rightarrow \left(x + \frac{1}{x}\right)^2 = 121$$

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

Hence, the correct answer is Option A

SSC CHSL Study Material

Question 58

The three medians AX, BY and CZ of $\triangle ABC$ intersect at point L. If the area of $\triangle ABC$ is 30 cm^2 , then the area of the quadrilateral BXLZ is:

A 10 cm^2

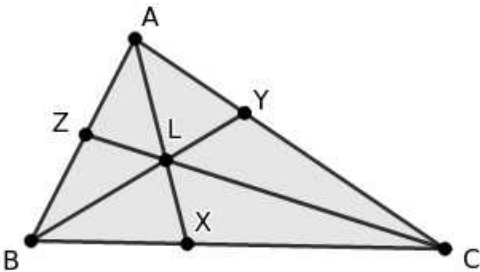
B 12 cm^2

C 16 cm^2

D 14 cm^2

Answer: A

Explanation:



Given, Area of $\triangle ABC = 30 \text{ cm}^2$

The three medians AX, BY and CZ of $\triangle ABC$ intersect at point L as shown in the above figure

The area of six triangles in the above figure are equal and area is equal to one-sixth of the area of triangle ABC.

$$\text{Area of } \triangle BLX = \frac{1}{6} \times \text{Area of } \triangle ABC$$

$$= \frac{1}{6} \times 30$$

$$= 5 \text{ cm}^2$$

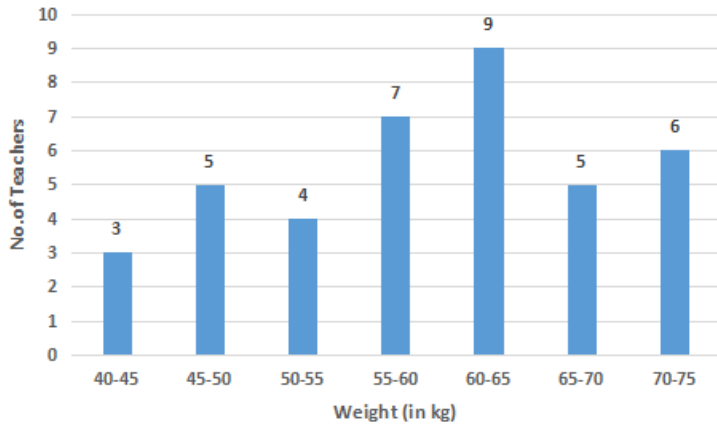
Similarly, Area of $\triangle BLZ = 5 \text{ cm}^2$

$$\therefore \text{Area of quadrilateral} = \text{Area of } \triangle BLX + \text{Area of } \triangle BLZ = 5 + 5 = 10 \text{ cm}^2$$

Hence, the correct answer is Option A

Question 59

The given bar-graph represents the number of teachers in different weight groups. Study the graph and answer the question that follows.



In which of the following weight groups is the number of teachers the maximum?

- A 45 - 50
- B 60 - 65
- C 65 - 70
- D 40 - 45

Answer: B

Explanation:

From the bar graph,

Number of teachers in the weight group 45 - 50 = 5

Number of teachers in the weight group 60 - 65 = 9

Number of teachers in the weight group 65 - 70 = 5

Number of teachers in the weight group 40 - 45 = 3

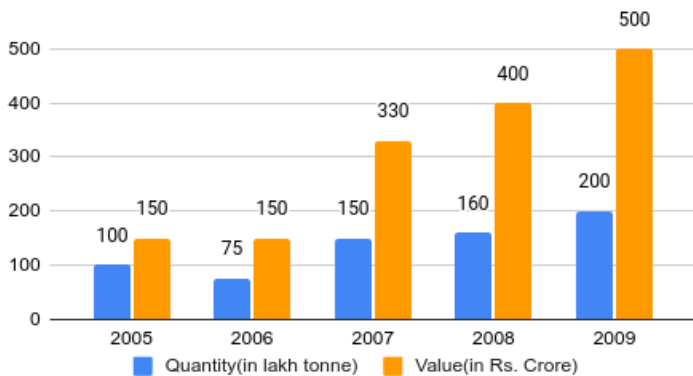
∴ The number of teachers in the weight group 60 - 65 is highest.

Hence, the correct answer is Option B

Question 60

The given bar graph shows the biscuit exports of India over a period of five years. Study the graph and answer the question that follow.

India's Biscuit Export



In which year, the percentage increase in exports was maximum from its preceding year:

- A 2007

- B 2006
- C 2009
- D 2008

Answer: A

Explanation:

From the bar graph,

$$\text{Percentage increase in exports from 2006 to 2007} = \frac{150-75}{75} \times 100 = 100\%$$

$$\text{Percentage increase in exports from 2007 to 2008} = \frac{160-150}{150} \times 100 = 6.66\%$$

$$\text{Percentage increase in exports from 2008 to 2009} = \frac{200-160}{200} \times 100 = 20\%$$

From 2005 to 2006, there was decrease in exports.

∴ The percentage increase in exports was maximum in 2007 from its preceding year.

Hence, the correct answer is Option A

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Question 61

If $X = \tan 40^\circ$, then the value of $2 \tan 50^\circ$ will be:

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

Answer: A

Explanation:

Given, $X = \tan 40^\circ$

$$\therefore 2 \tan 50^\circ = 2 \tan (90 - 40^\circ)$$

$$= 2 \cot 40^\circ$$

$$= \frac{2}{\tan 40^\circ}$$

$$= \frac{2}{X}$$

Hence, the correct answer is Option A

Question 62

In a question on division, the divisor is 6 times the quotient and 3 times the remainder. If the remainder is 40, then find the dividend.

- A 2445
- B 2440
- C 2455
- D 2450

Answer: B

Explanation:

Given, remainder = 40

Divisor is 3 times the remainder

$$\Rightarrow \text{divisor} = 3 \times 40 = 120$$

Divisor is 6 times the quotient

$$\Rightarrow 120 = 6 \times \text{quotient}$$

$$\Rightarrow \text{quotient} = 20$$

Dividend = divisor \times quotient + remainder

$$\Rightarrow \text{Dividend} = 120 \times 20 + 40$$

$$\Rightarrow \text{Dividend} = 2400 + 40$$

$$\Rightarrow \text{Dividend} = 2440$$

Hence, the correct answer is Option B

Question 63

Two circles of radii 20 cm and 5 cm, respectively, touch each other externally at the point P, AB is the direct common tangent of those two circles of centres R and S, respectively. The length of AB is equal to:

A 10 cm

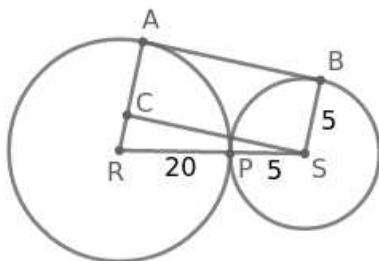
B 5 cm

C 15 cm

D 20 cm

Answer: D

Explanation:



AB is tangent to both the circles.

$$\Rightarrow AB \perp AR$$

Let SC be the line parallel to AB

$$\Rightarrow SC \perp AR \text{ and } AC = BS = 5 \text{ cm and } AB = SC$$

Radius of bigger circle $AR = 20$ cm

$$\Rightarrow AC + CR = 20$$

$$\Rightarrow 5 + CR = 20$$

$$\Rightarrow CR = 15 \text{ cm}$$

Since circles touch externally as shown in figure

$$RS = RP + PS = 20 + 5 = 25 \text{ cm}$$

In $\triangle RCS$,

$$CR^2 + SC^2 = RS^2$$

$$\Rightarrow 15^2 + SC^2 = 25^2$$

$$\Rightarrow 225 + SC^2 = 625$$

$$\Rightarrow SC^2 = 400$$

$$\Rightarrow SC = 20 \text{ cm}$$

\therefore Length of AB = SC = 20 cm

Hence, the correct answer is Option D

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Question 64

Kamal and Anil can dig a pond in 8 days and 14 days, respectively. If the total expense of digging is ₹ 4,400, then how much money will Anil earn?

A ₹ 1400

B ₹ 1600

C ₹ 1500

D ₹ 1300

Answer: B

Explanation:

Number of days required for Kamal to dig the pond = 8 days

\Rightarrow Workdone by Kamal in 1 day = $\frac{1}{8}$ of the work

Number of days required for Anil to dig the pond = 14 days

\Rightarrow Workdone by Anil in 1 day = $\frac{1}{14}$ of the work

Ratio of their efficiency = $\frac{1}{8} : \frac{1}{14} = 14 : 8$

Total expense of digging = ₹ 4,400

Money that can be earned by Anil = $\frac{8}{14+8} \times 4400 = ₹ 1600$

Hence, the correct answer is Option B

Question 65

IF L is the circumcentre of $\triangle XYZ$ and angle X is 40° , then the value of $\angle YZL$ is:

A 50°

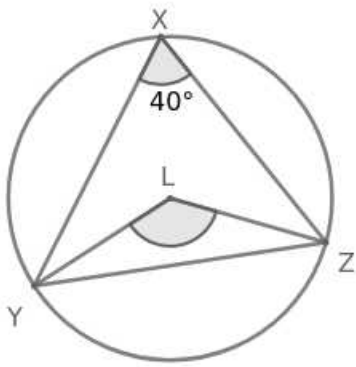
B 60°

C 40°

D 70°

Answer: A

Explanation:



Given, L is the circumcentre of $\triangle XYZ$ and $\angle YXZ = 40^\circ$

Angle subtended by an arc of the circle at centre is twice the angle subtended by the arc at any point on the circle.

\Rightarrow Angle subtended by the arc YZ at L is twice the angle subtended by the arc YZ at X.

$$\Rightarrow \angle YLZ = 2\angle YXZ$$

$$\Rightarrow \angle YLZ = 80^\circ$$

In $\triangle LYZ$, $YL = ZL$

Angles opposite to equal sides are equal.

$$\Rightarrow \angle YZL = \angle ZYL$$

$$\text{Also, } \angle YZL + \angle ZYL + \angle YLZ = 180^\circ$$

$$\Rightarrow \angle YZL + \angle YZL + 80^\circ = 180^\circ$$

$$\Rightarrow 2\angle YZL = 100^\circ$$

$$\Rightarrow \angle YZL = 50^\circ$$

Hence, the correct answer is Option A

Question 66

Simplify the expression $25 - [16 - \{14 - (18 - 8 + 3)\}]$.

A 16

B 15

C 17

D 14

Answer: A

Explanation:

$$25 - [16 - \{14 - (18 - 8 + 3)\}] = 25 - [16 - \{14 - (18 - 11)\}]$$

$$= 25 - [16 - \{14 - 7\}]$$

$$= 25 - [16 - 7]$$

$$= 25 - 9$$

$$= 16$$

Hence, the correct answer is Option A

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Question 67

If $a - b = 18$ and $a^3 - b^3 = 324$, then find ab .

- A 105
- B -102
- C -104
- D 103

Answer: B

Explanation:

Given, $a - b = 18$ and

$$a^3 - b^3 = 324$$

$$\Rightarrow (a - b)(a^2 + ab + b^2) = 324$$

$$\Rightarrow (18)(a^2 - 2ab + b^2 + 3ab) = 324$$

$$\Rightarrow (a - b)^2 + 3ab = 18$$

$$\Rightarrow (18)^2 + 3ab = 18$$

$$\Rightarrow 324 + 3ab = 18$$

$$\Rightarrow 3ab = -306$$

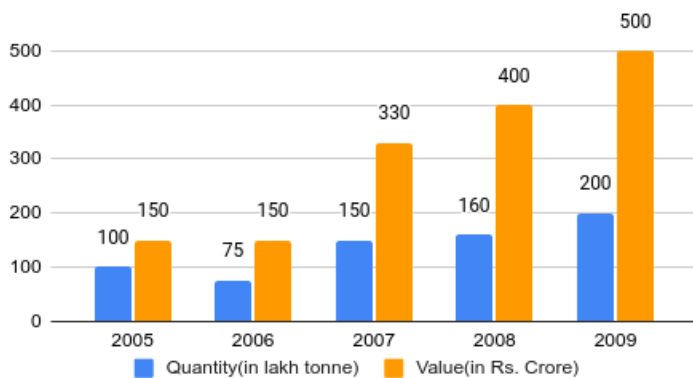
$$\Rightarrow ab = -102$$

Hence, the correct answer is Option B

Question 68

The given bar graph shows the biscuit exports of India over a period of five years. Study the graph and answer the question that follow.

India's Biscuit Export



What was the percentage drop in the export quantity from 2005 to 2006?

- A 75%
- B 100%
- C 50%
- D 25%

Answer: D

Explanation:

From the bar graph,

Export quantity of India in 2005 = 100

Export quantity of India in 2006 = 75

$$\therefore \text{Required percentage drop} = \frac{100-75}{100} \times 100 = 25\%$$

Hence, the correct answer is Option D

Question 69

A man sold his bike for ₹ 25,000 at 25% profit. At what price would it he have sold if he had incurred a loss of 15%?

- A ₹ 19,000
- B ₹ 17,000
- C ₹ 16,000
- D ₹ 18,000

Answer: B

Explanation:

Let the cost price of bike = C

Profit% = 25%

$$\Rightarrow \text{Selling price of the bike} = \frac{125}{100} C$$

Given, Selling price of the bike = ₹ 25,000

$$\Rightarrow \frac{125}{100} C = 25000$$

$$\Rightarrow C = 20000$$

Cost price of the bike = ₹ 20,000

$$\text{Selling price of the bike at 15% loss} = \frac{85}{100} \times 20000 = ₹ 17,000$$

Hence, the correct answer is Option B

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Question 70

The average of 40 numbers is 36. The average of the first 25 numbers is 31 and the average of last 16 numbers is 43. Find the 25th number.

- A 21
- B 23
- C 24
- D 22

Answer: B

Explanation:

Given, average of 40 numbers = 36

$$\Rightarrow \text{Sum of 40 numbers} = 36 \times 40 = 1440 \dots\dots(1)$$

The average of the first 25 numbers is 31

$$\Rightarrow \text{Sum of first 25 numbers} = 31 \times 25 = 775$$

$$\Rightarrow \text{Sum of first 24 numbers} + 25\text{th number} = 775 \dots\dots(2)$$

The average of last 16 numbers is 43

$$\Rightarrow \text{Sum of last 16 numbers} = 43 \times 16 = 688 \dots\dots(3)$$

Adding equations (2) and (3),

$$\text{Sum of first 24 numbers} + 25\text{th number} + \text{Sum of last 16 numbers} = 775 + 688$$

$$\Rightarrow \text{Sum of first 24 numbers} + \text{Sum of last 16 numbers} + 25\text{th number} = 1463$$

$$\Rightarrow \text{Sum of 40 numbers} + 25\text{th number} = 1463$$

$$\Rightarrow 1440 + 25\text{th number} = 1463$$

$$\Rightarrow 25\text{th number} = 23$$

Hence, the correct answer is Option B

Question 71

A woman earns ₹ 1,000/day. After some weeks, she earns ₹ 1,160/day. By how much percentage did her earnings increase?

A 18%

B 16%

C 17%

D 15%

Answer: B

Explanation:

Increase in earnings of the woman = $1160 - 1000 = ₹ 160/\text{day}$

$$\therefore \text{Percentage increase in earnings of the woman} = \frac{160}{1000} \times 100 = 16\%$$

Hence, the correct answer is Option B

Question 72

If $2x = \sin \theta$ and $\frac{2}{x} = \cos \theta$, then the value of $4\left(x^2 + \frac{1}{x^2}\right)$ is:

A 1

B 0

C 2

D 4

Answer: A

Explanation:

Given, $2x = \sin \theta$ and $\frac{2}{x} = \cos \theta$

From the trigonometric identities,

$$\sin^2 \theta + \cos^2 \theta = 1$$

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

$$\Rightarrow 4x^2 + \frac{4}{x^2} = 1$$

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

Hence, the correct answer is Option A

Question 73

The area of the quadrant of a circle whose circumference is 22 cm, will be:

- A 3.5 cm^2
- B 38.5 cm^2
- C 10 cm^2
- D 9.625 cm^2

Answer: D

Explanation:

Let the radius of the circle = r

Circumference of the circle = 22 cm

$$\Rightarrow 2\pi r = 22$$

$$\Rightarrow 2 \times \frac{22}{7} \times r = 22$$

$$\Rightarrow r = \frac{7}{2} \text{ cm}$$

$$\therefore \text{Area of the quadrant of the circle} = \frac{1}{4} \times \pi r^2$$

$$= \frac{1}{4} \times \frac{22}{7} \times \left(\frac{7}{2}\right)^2$$

$$= \frac{77}{8}$$

$$= 9.625 \text{ cm}^2$$

Hence, the correct answer is Option D

Question 74

How much will be decreased to each terms of ratio 16 : 19, so that it will be 7 : 6?

- A 36
- B 35
- C 34
- D 37

Answer: D

Explanation:

Let the number which is to be decreased from each term = a

According to the problem,

$$\frac{16-a}{19-a} = \frac{7}{6}$$

$$\Rightarrow 96 - 6a = 133 - 7a$$

$$\Rightarrow a = 37$$

\therefore The number which is to be decreased from each term is 37.

Hence, the correct answer is Option D

Question 75

Suresh lent out a sum of money to Rakesh for 5 years at simple interest. At the end of 5 years, Rakesh paid $\frac{9}{8}$ of the sum to Suresh to clear out the amount. Find the rate of simple interest per annum.

- A 3.5% p.a.
- B 2.5% p.a.
- C 3% p.a.
- D 2% p.a.

Answer: B

Explanation:

Let the sum of money lent out by Suresh to Rakesh = P

Amount paid by Rakesh to Suresh after 5 years = $\frac{9}{8}P$

Let the rate of simple interest = R%

$$\Rightarrow P + \frac{P \times 5 \times R}{100} = \frac{9}{8}P$$

$$\Rightarrow 1 + \frac{R}{20} = \frac{9}{8}$$

$$\Rightarrow \frac{R}{20} = \frac{9}{8} - 1$$

$$\Rightarrow \frac{R}{20} = \frac{1}{8}$$

$$\Rightarrow R = 2.5\%$$

∴ Rate of simple interest per annum = 2.5%

Hence, the correct answer is Option B

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General Awareness

Instructions

For the following questions answer them individually

Question 76

When was the Rovers Cup started?

- A 1981
- B 1952
- C 1931
- D 1891

Answer: D

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Question 77

Which film won the Golden Globe Awards 2020 for Best Picture - Drama?

- A The Irishman
- B Joker
- C 1917

D Marriage story

Answer: C

Question 78

Lavani is a folk music of which state?

A Karnataka

B Odisha

C Kerala

D Maharashtra

Answer: D

Question 79

Which of the following kingdoms consists of prokaryotic cells?

A Animalia

B Protista

C Fungi

D Monera

Answer: D

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Question 80

Who won the Sahitya Akademi Award 2019 in Hindi?

A Chitra Mudgal

B Nand Kishore Acharya

C Nasira Sharma

D Ramesh Kunthal Megh

Answer: B

Question 81

Which of the following is one of the sacred books of Buddhism?

A Torah

B The Avesta

C Kalpa Sutra

D Tripitaka

Answer: D

Question 82

The National Bank for Agriculture and Rural Development (NABARD) was established in:

- A 1982
- B 1991
- C 1987
- D 1975

Answer: A

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Question 83

Which function key is used for opening help?

- A F1
- B F2
- C F4
- D F3

Answer: A

Question 84

How many people were awarded Padma Vibhushan in 2019?

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

Answer: B

Question 85

Lipulekh Pass is in which state of India?

- A Assam
- B Himachal Pradesh
- C Uttarakhand
- D Jammu and Kashmir

Answer: C

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Question 86

GST was introduced by which amendment act of the Constitution?

- A 106
- B 101
- C 102
- D 107

Answer: B

Question 87

When was WhatsApp incorporated?

- A 2008
- B 2007
- C 2010
- D 2009

Answer: D

Question 88

Who is/was the 13th President of India?

- A Ram Nath Kovind
- B Pratibha Patil
- C Pranab Mukherjee
- D APJ Abdul Kalam

Answer: C

SSC CGL Previous Papers (DOWNLOAD PDF)

Question 89

Salsette Island is situated in which state of India?

- A Kerala
- B Maharashtra
- C Andhra Pradesh
- D Tamil Nadu

Answer: B

Question 90

In Tibet, the Brahmaputra river is known as:

- A Tsangpo
- B Debung
- C Lohit
- D Dihang

Answer: A

Question 91

Which of the following countries was the runner up in the 2019 ICC Cricket World cup?

- A England
- B India
- C New Zealand
- D Australia

Answer: C

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Question 92

How many Lok Sabha constituencies are there in Rajasthan?

- A 25
- B 28
- C 30
- D 20

Answer: A

Question 93

Where is the Dudhsagar waterfalls located?

- A Maharashtra
- B Kerala
- C Goa
- D Karnataka

Answer: C

Question 94

What was the theme of the International Yoga Day 2019?

- A Yoga for Climate Action
- B Yoga for Peace

- C Connect the Youth
- D Yoga for Health

Answer: A

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Question 95

Shore temple is situated in which state of India?

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

Answer: C

Question 96

Which state has launched the Cyber Safe Woman Campaign in January 2020?

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

Answer: C

Question 97

What did Wilhelm Conrad Roentgen discover?

- A Conservation of electric charge
- B Electric bulb
- C X-Rays
- D Thermodynamics

Answer: C

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Question 98

Vivekananda Rock Memorial is in which state of India?

- A Tamil Nadu
- B Kerala
- C Maharashtra

D Andhra Pradesh

Answer: A

Question 99

What is the atomic weight of Lithium?

A 6.941 amu, g/mol

B 9.012 amu, g/mol

C 4.003 amu, g/mol

D 10.811 amu, g/mol

Answer: A

Question 100

Jitu Rai is associated with which sport?

A Wrestling

B Shooting

C Weight lifting

D Boxing

Answer: B

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