



SSC CHSL 13th October 2020 Shift-2

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English Language (Basic Knowledge)

Instructions

For the following questions answer them individually

Question 1

Identify the segment in the given sentence which contains the grammatical error.
If India will win this match they will win the series.

- A the series
- B they will win
- C this match
- D If India will win

Answer: D

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Question 2

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

A collection of drawings, documents, etc. That represent a person's, especially an artist's, work

- A Dossier
- B Sketch
- C Profile
- D Portfolio

Answer: D

Question 3

Select the INCORRECTLY spelt word.

- A Placque
- B Lacquer
- C Rogue
- D Boutique

Answer: A

Question 4

Select the option that will improve the underlined part of the sentence. In case no improvement is needed, select 'No improvement'.
As we've been neighbours, I have known Mrs. Shashi Singh since more than 16 years.

- A by more than 16 years
- B for more than 16 years
- C from more than 16 years

D No improvement

Answer: B

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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.

Comprehension:

Hampi is a UNESCO World Heritage Site in India located near Hospet town in the Karnataka state, India. (1)_____ the attractions of Hampi (2)_____ beautiful temples, ruins of palaces (3)_____ of aquatic structures, ancient market streets, royal pavilions, bastions, royal platforms, treasury buildings...the list is practically (4)_____. Most of the visitors to Hampi arrive at the well-connected Hospet Junction railway station, (5)_____ about 13km from Hampi. Roads to Hampi are in great shape. Driving all the way to Hampi from the neighbouring cities is not a bad idea either.

Question 5

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

A Along

B Aside

C Away

D Among

Answer: D

Question 6

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

A was

B are

C is

D were

Answer: B

Question 7

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

A refunds

B remains

C revenues

D returns

Answer: B

Question 8

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

- A written
- B finished
- C endless
- D finite

Answer: C

Question 9

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

- A located
- B placed
- C settled
- D fitted

Answer: A

Instructions

For the following questions answer them individually

Question 10

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

- A. He put it down to dry and went to count his coins.
- B. When he came back, it seemed like the teapot had moved.
- C. Akito walked into an old curiosity shop and bought a teapot and took it home.
- D. Later that day, he cleaned the teapot till it shone like the sun.

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

Answer: A

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Question 11

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

Timers at traffic signals, that help motorists save fuel by switching off their engines while waiting, will soon be phased out due to technical _____.

- A symbols
- B streamers
- C glitches

D illuminations

Answer: C

Question 12

Select the option that will improve the underlined part of the sentence. In case no improvement is needed, select 'No improvement'.
Finally, Ananya found her pet kitten over the top branch of a tree in their garden.

A on the top branch of the tree

B in a top branch of a tree

C No improvement

D across the top branch in the tree

Answer: A

Question 13

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

A. "Today, respect is shown in different ways," she said, "students have a more questioning bent of mind."

B. Vidya Subramaniam occupies a small but privileged place in the dance world that has seen the old guard giving place to the new.

C. Back in the day, respect meant not sitting on even the same level as one's gurus but that's no longer true, especially for those who live in Western milieus.

D. For instance, she spoke of how the very idea of 'respect' has changed over time.

A DBAC

B DCAB

C BCAD

D BDCA

Answer: D

SSC CGL Free Mock Test (Latest Pattern)

Instructions

Select the most appropriate ANTONYM of the given word.

Question 14

ALTRUISTIC

A Soft-spoken

B Outstanding

C Serene

D Selfish

Answer: D

Question 15

DISCLOSE

A Disguise

- B Complete
- C Conceal
- D Disrupt

Answer: C

Instructions

For the following questions answer them individually

Question 16

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

Brinda told her doctor that she was leaving for Boston the next day.

- A Brinda told her doctor, "I was leaving for Boston tomorrow".
- B Brinda had told her doctor, "She was leaving for Boston the next day".
- C Brinda said to her doctor, "I am leaving for Boston tomorrow."
- D Brinda told to her doctor, "I will be leaving for Boston the next day".

Answer: C

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Question 17

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

She did not forget me even though I have been away for a year.

- A Even though I have been away for a year she did not forget me.
- B Even though I have been away for a year she had not been forget me.
- C Though I have been away for a year she has not forgot me.
- D I have not been forgotten even though I have been away for a year.

Answer: D

Question 18

Select the most appropriate synonym of the given word.

FOLIAGE

- A Greenery
- B Firmness
- C Urgency
- D Foolishness

Answer: A

Question 19

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

A _____ of small stones is called a mosaic.

- A Pattern
- B Design
- C Mound
- D Structure

Answer: A

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Question 20

Select the word which means the same as the group of words given.
A group of ships sailing together

- A Cruisers
- B Vessels
- C Navy
- D Fleet

Answer: D

Question 21

Select the correctly spelt word.

- A Fassion
- B Injecshun
- C Transishion
- D Intention

Answer: D

Question 22

Identify the segment in the given sentence which contains the grammatical error.
I don't recognise none of the politicians who have been invited to be the speakers today.

- A invited to be
- B I don't recognise none of
- C the speakers today
- D the politicians who have been

Answer: B

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Question 23

Select the most appropriate synonym of the given word.

CONSTRAINT

- A Hazard
- B Concern
- C Burden
- D Control

Answer: D

Question 24

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

It took Rohan a long time to get the hang of the machine in the new factory.

- A Learn how to use
- B Put up safely
- C Bring someone to run
- D Clean and dry

Answer: A

Question 25

Select the most appropriate meaning of the given idiom.

Fit as a fiddle

- A Playing a musical instrument
- B Healthy and strong
- C Of the right size
- D Singing happily

Answer: B

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General Intelligence

Instructions

For the following questions answer them individually

Question 26

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

(13, 17, 442)

- A (18, 15, 540)
- B (11, 19, 628)
- C (17, 21, 367)

D (15, 14, 415)

Answer: A

Explanation:

$$(13^2 + 17^2) - (13 - 17)^2 = 169 + 289 - 16 = 442$$

The logic here is the third number is the difference of sum of the squares of the first and second number and square of difference between first and second number.

Similarly,

$$(18^2 + 15^2) - (18 - 15)^2 = 324 + 225 - 9 = 540$$

∴ (18, 15, 540) are related in the same way as (13, 17, 442) related

Hence, the correct answer is Option A

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Question 27

Which option represents the correct order of the given words as they would appear in an English dictionary?

1. Dovetail
2. Domestic
3. Dominate
4. Donate
5. Dorsal

A 2, 3, 4, 1, 5

B 2, 3, 4, 5, 1

C 1, 3, 5, 4, 2

D 2, 4, 3, 5, 1

Answer: B

Explanation:

First 2 letters of all words are same so verifying the third letter

The third letter of Donate, Dorsal, Dovetail are n,r,v which come after m respectively in alphabetical order. So Donate is placed third, Dorsal is placed fourth and Dovetail is placed fifth.

Among Domestic and Dominate, the fourth letter of Domestic is 'e' which comes before 'i' in alphabetical order. So Domestic is placed first and Dominate is placed second.

∴ The order of words according to dictionary is Domestic, Dominate, Donate, Dorsal, Dovetail

Hence, the correct answer is Option B

Question 28

If 29 January 2003 is a Wednesday, then what day of the week will be 26 February 2005?

A Thursday

B Saturday

C Friday

D Sunday

Answer: B

Explanation:

Given, 29 January 2003 is a Wednesday

Number of days between 29 January 2003 and January 29 2004 = 365 days

Number of days between 29 January 2004 and January 29 2005 = 366 days

Number of days between 29 January 2005 and 26 February 2005 = 28 days

Number of days between 29 January 2003 and 26 February 2005 = $365 + 366 + 28 = 759$ days

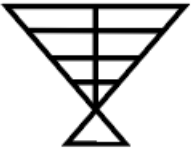
Number of odd days between 29 January 2003 and 26 February 2005 = Remainder of $\frac{759}{7} = 3$

\therefore The day on 26 February 2005 = Wednesday + 3 = Saturday

Hence, the correct answer is Option B

Question 29

How many triangles are there in the given figure?



A 15

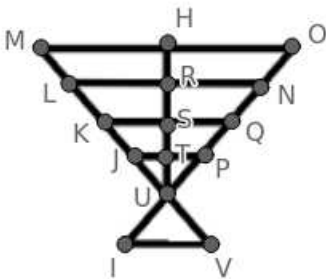
B 14

C 11

D 13

Answer: D

Explanation:



The different triangles in the given figure is UJT, UPT, UJP, UKS, UQS, UKQ, ULR, UNR, ULN, UMH, UOH, UMO, IUV

\therefore Number of triangles in the given figure is 13

Hence, the correct answer is Option D

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Question 30

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

65, 70, 80, 95, 115, ?, 170

A 165

B 130

C 140

D 145

Answer: C

Explanation:

$$65 + 5 = 70$$

$$70 + 10 = 80$$

$$80 + 15 = 95$$

$$95 + 20 = 115$$

A number in the series is obtained by adding the previous number in the series with respective multiple of 5 as shown above.

\therefore Next number in the series = $115 + 25 = 140$

Hence, the correct answer is Option C

Question 31

Select the option in which the numbers are related in the same way as are the numbers in the given set.
(789, 501, 645)

A (645, 705, 573)

B (224, 640, 330)

C (701, 538, 600)

D (455, 573, 514)

Answer: D

Explanation:

$$|789 - 501| = 288$$

$$|501 - 645| = 144$$

The difference between first and second number is twice the difference between second and third number.

Similarly,

$$|455 - 573| = 118$$

$$|573 - 514| = 59$$

\therefore (455, 573, 514) are related in the same way as (789, 501, 645)

Hence, the correct answer is Option D

Question 32

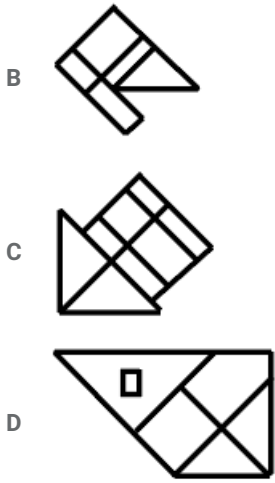
Select the option figure that is embedded in the given figure X. (Rotation is not allowed)



Figure X

A





Answer: C

Explanation:

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



Figure X

Hence, the correct answer is Option C

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Question 33

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.

KRZ : HOW : : CUX : ?

- A ZRU
- B YTU
- C ZTV
- D YSU

Answer: A

Explanation:

K - 3 = H

R - 3 = O

Z - 3 = W

Similarly,

C - 3 = Z

U - 3 = R

X - 3 = U

∴ ZRU is related to CUX in the same way HOW is related to KRZ

Hence, the correct answer is Option A

Question 34

'Nagaland' is related to 'Kohima' in the same way as 'Assam' is related to

- A Dispur
- B Konkani
- C Itanagar
- D Assamese

Answer: A

Explanation:

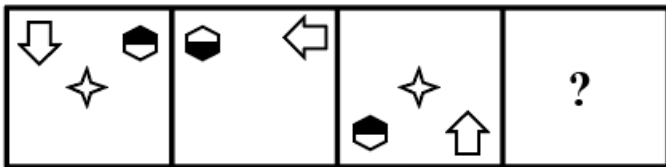
Capital of Nagaland is Kohima and Capital of Assam is Dispur.

∴ 'Nagaland' is related to 'Kohima' in the same way as 'Assam' is related to 'Dispur'

Hence, the correct answer is Option A

Question 35

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



- A
- B
- C
- D

Answer: C

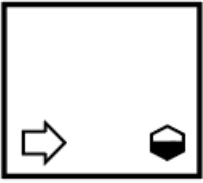
Explanation:

The star symbol at the centre is appearing and disappearing alternatively in the given figure series.

The hexagon is moving one place in anti clockwise direction with black side of the hexagon moving up and down alternatively.

The arrow symbol is moving one place in clockwise direction.

∴ The figure that can replace the question mark (?) in the following figure series is



Hence, the correct answer is Option C

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Question 36

In a certain code language, 'BEAUTY' is written as 'ZUVBFC'. How will 'MARTYR' be written as in that language?

- A SZUQDN
- B SYUSDM
- C TXURBN
- D SZUSBN

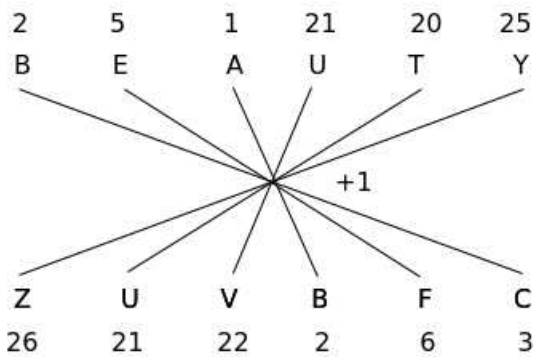
Answer: D

Explanation:

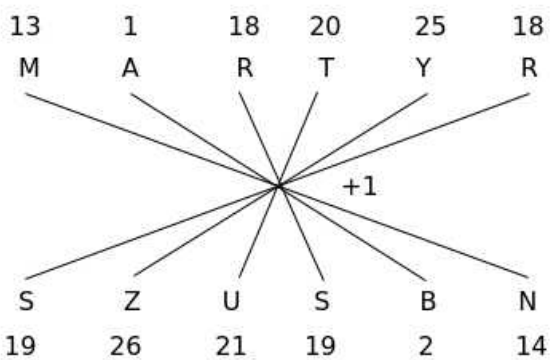
Given,

'BEAUTY' is written as 'ZUVBFC' in the code language

The logic here is



Similarly,

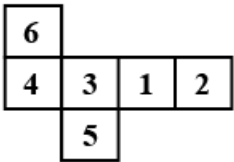


∴ MARTYR is coded as SZUSBN in the code language

Hence, the correct answer is Option D

Question 37

A cube is made by folding the given sheet. In the cube so formed, which of the following pairs of numbers will be on opposite faces?



- A 2 and 3
- B 1 and 6
- C 1 and 5
- D 6 and 3

Answer: A

Explanation:

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

3 will be opposite to 2

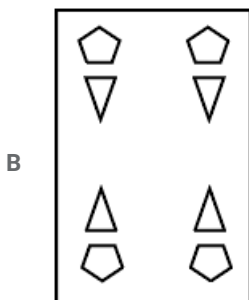
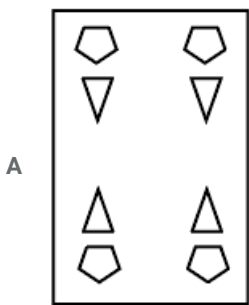
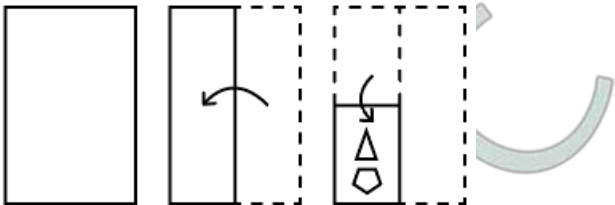
4 will be opposite to 1

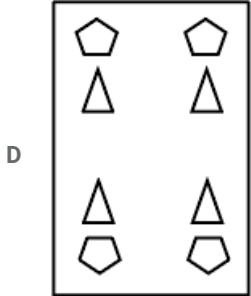
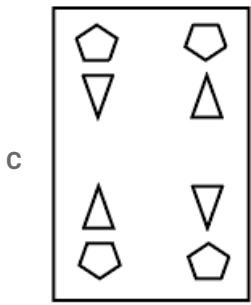
6 will be opposite to 5

Hence, the correct answer is Option A

Question 38

The sequence of folding a paper and the manner in which the folded paper has been cut is shown in the following figures. Select from the option figures, how would this paper look when unfolded?





Answer: B

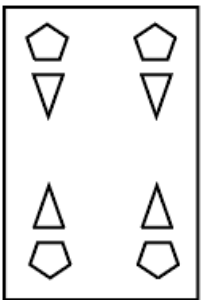
Explanation:

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

When the paper is unfolded first, the bottom right quadrant will be similar to bottom left quadrant.

When the paper is unfolded again, the triangles in the upper quadrants face bottom and the edge of the pentagon in the upper quadrants face upwards.

∴ When the paper is unfolded it appears as shown below



Hence, the correct answer is Option B

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Question 39

In certain code language, 'REQUIRE' is coded as '100'. How will 'ARRANGE' be coded as in that language?

- A 71
- B 68
- C 77
- D 88

Answer: A

Explanation:

Given,

'REQUIRE' is coded as '100' in the code language

The logic here is

$$R + E + Q + U + I + R + E + 7 = 18 + 5 + 17 + 21 + 9 + 18 + 5 + 7 = 100$$

Similarly,

$$A + R + R + A + N + G + E + 7 = 1 + 18 + 18 + 1 + 14 + 7 + 5 + 7 = 71$$

∴ 'ARRANGE' will be coded as '71' in the code language

Hence, the correct answer is Option A

Question 40

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

- A Spoon
- B Spade
- C Knife
- D Fork

Answer: B

Explanation:

Spoon, Knife, Fork are used for eating whereas Spade is used for digging.

∴ Spoon, Knife, Fork are alike and Spade is the odd one

Hence, the correct answer is Option B

Question 41

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 BGQ
- B LRX
- C FLR
- D NTZ

Answer: A

Explanation:

In the letter-clusters LRX, FLR, NTZ the number of letters between the consecutive letters is 5.

In BGQ, number of letters between B and G is 4.

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

Hence, the correct answer is Option A

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Question 42

A + B means 'A is the mother of B';

A - B means 'A is the sister of B';

A × B means 'A is the son of B';

A ÷ B means 'A is the father of B'.

If, **K + U - T × R ÷ M**, then how is K related to M?

- A Wife

- B Mother
- C Sister
- D Maternal grand mother

Answer: B

Explanation:

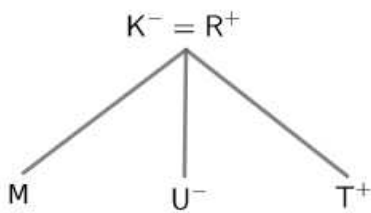
$K + U$ means K is the mother of U

$U - T$ means U is the sister of T

$T \times R$ means T is the son of R

$R \div M$ means R is the father of M

According to the problem, the family tree is



\therefore K is the mother of M

Hence, the correct answer is Option B

Question 43

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 conclusions logically follow(s) from the statements.

Statements:

1. All boys are robots.
2. All girls are robots.

Conclusions:

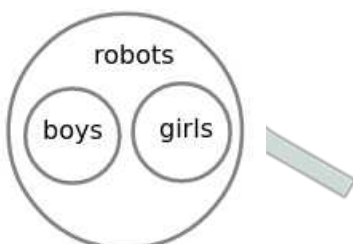
- I. Some robots are boys.
- II. No robot is a girl.
- III. Some robots are girls.

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

Answer: D

Explanation:

The basic diagram for the given statements is



I. Some robots are boys

From the basic diagram, some robots are boys. Hence conclusion I follows.

II. No robot is a girl

From the basic diagram, some robots are girls. Hence conclusion II do not follow.

III. Some robots are girls

From the basic diagram, some robots are girls. Hence conclusion III follows.

∴ Only conclusions I and III follow the given statements

Hence, the correct answer is Option D

Question 44

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

8 : 81 :: 12 : ? :: 11 : 144

A 196

B 256

C 169

D 144

Answer: C

Explanation:

$$8 : 81 \rightarrow 8 : (8 + 1)^2$$

$$11 : 144 \rightarrow 11 : (11 + 1)^2$$

Similarly,

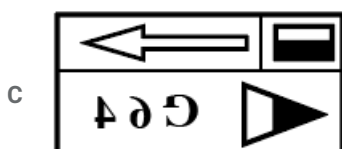
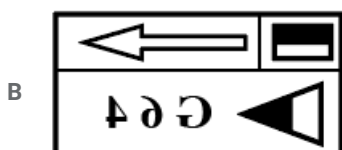
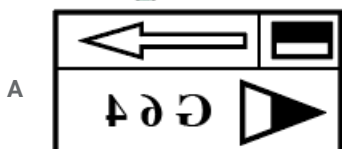
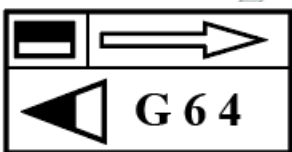
$$\text{The third number} = (12 + 1)^2 = 169$$

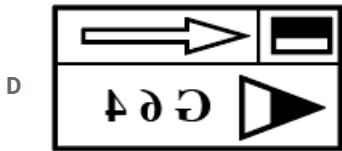
Hence, the correct answer is Option C

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Question 45

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





Answer: A

Explanation:

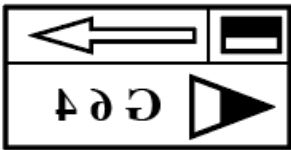
When a mirror is placed on the right side of the figure,

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 arrow facing right faces left in the mirror image.

The triangle facing left faces right in the mirror image.

∴ The mirror image of the given figure is



Hence, the correct answer is Option A

Question 46

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

Wheat : Cereal

A Tea : Coffee

B Winner : Prize

C Cinnamon : Spices

D City : Traffic

Answer: C

Explanation:

Wheat is a Cereal whereas Cinnamon is a Spice.

∴ Cinnamon is related to Spices in the same way Wheat is related to Spice

Hence, the correct answer is Option C

Question 47

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

A 22 : 506

B 14 : 210

C 17 : 306

D 11 : 142

Answer: D

Explanation:

22 : 506 → 22 : 22 x 23

14 : 210 → 14 : 14 x 15

17 : 306 → 17 : 17 x 18

The second number is the product of first number and next number to first number

∴ 11 : 142 is the odd one among the given number-pairs

Hence, the correct answer is Option D

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Question 48

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

K, B, N, D, Q, F, T, H, ?

A J

B K

C V

D W

Answer: D

Explanation:

Given series is alternate series with two series are K, N, Q, T, and B, D, F, H,

$$K + 3 = N$$

$$N + 3 = Q$$

$$T + 3 = W$$

∴ The next number will be from first series which is W

Hence, the correct answer is Option D

Question 49

Select the correct combination of mathematical signs to sequentially replace the * signs and to balance the following equation.

11 * 15 * 78 * 6 * 18 * 160

A +, ×, -, ÷, =

B ×, +, ÷, -, =

C ×, +, -, ÷, =

D +, ×, ÷, -, =

Answer: B

Explanation:

By Trial and Error method,

Option A

$$11 + 15 \times 78 - 6 \div 18 = 160$$

$$11 + 15 \times 78 - \frac{1}{3} = 160$$

We get decimal value after solving which is not possible. Hence Option A is incorrect.

Option B

$$11 \times 15 + 78 \div 6 - 18 = 160$$

$$11 \times 15 + 13 - 18 = 160$$

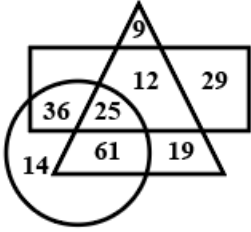
$$165 + 13 - 18 = 160$$

$$160 = 160$$

Hence, the correct answer is Option B

Question 50

In the given Venn Diagram, if the 'circle' represents 'senior lawyers', the 'triangle' represents 'fathers' and the 'rectangle' represents 'Indians', then how many Indian senior lawyers are there who are NOT fathers?



A 12

B 61

C 25

D 36

Answer: D

Explanation:

From the Venn Diagram,

Indian senior lawyers who are not fathers = Intersection of rectangle and circle but not triangle = 36

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

₹4,000 is given at 5% per annum for one year and interest is compounded half yearly. ₹2,000 is given at 40% per annum compounded quarterly for 1 year. The total interest received is nearest to:

A ₹1,333.30

B ₹1,888.80

C ₹1,130.70

D ₹1,444.40

Answer: C

Explanation:

For the amount ₹4,000

Rate of interest = 5% per annum = $\frac{5}{2}$ half yearly

Time n = 1 year = 2 half years

Interest on the amount ₹4,000 = $4000 \left(1 + \frac{5}{2 \times 100}\right)^2 - 4000$

For the amount ₹2,000

Rate of interest = 40% per annum = 10% quarterly

Time $n = 1$ year = 4 quarters

Interest on the amount ₹2,000 = $2000 \left(1 + \frac{10}{100}\right)^4 - 2000$

∴ Total interest = $4000 \left(1 + \frac{10}{100}\right)^2 - 4000 + 2000 \left(1 + \frac{10}{100}\right)^4 - 2000$

= $4000 \left(1 + \frac{10}{100}\right)^2 + 2000 \left(1 + \frac{10}{100}\right)^4 - 6000$

= $4000 \left(\frac{41}{40}\right)^2 + 2000 \left(\frac{11}{10}\right)^4 - 6000$

= $4202.5 + 2928.2 - 6000$

= ₹1,130.70

Hence, the correct answer is Option C

SSC CGL Free Mock Test (Latest Pattern)

Question 52

If the number 59a44b is divisible by 36, then the maximum value of $a + b$ is:

- A 16
- B 14
- C 12
- D 10

Answer: B

Explanation:

a and b are digits of the number

⇒ $0 \leq a \leq 9$ and $0 \leq b \leq 9$

⇒ $0 \leq a + b \leq 18$ (1)

Given, the number 59a44b is divisible by 36

⇒ The number 59a44b is divisible by 9

If a number is divisible by 9 then the sum of the digits of the number is divisible by 9

⇒ $5+9+a+4+4+b$ is divisible by 9

⇒ $22+a+b$ is divisible by 9(2)

From (1) and (2), the possible values of $a+b = 5, 14$

∴ The maximum value of $a+b = 14$

Hence, the correct answer is Option B

Question 53

A person marks his 40 items at 20% of the cost price. He sells 10 items at a 10% discount and 20 items at a 15% discount on the marked price. What is the maximum discount (rounded off) he can offer on the remaining items if he still gets some profit?

- A 28%
- B 26%
- C 21%

D 25%

Answer: B

Explanation:

Let the cost price of 40 items = 100C

$$\text{Marked price of 40 items} = \frac{120}{100} \times 100C = 120C$$

Marked price of 10 items = 30C

Discount on 10 items = 10%

$$\text{Selling price of 10 items} = \frac{90}{100} \times 30C = 27C$$

Marked price of 20 items = 60C

Discount on 20 items = 15%

$$\text{Selling price of 20 items} = \frac{85}{100} \times 60C = 51C$$

Selling price of 30 items = 78C

Selling price of the remaining 10 items if he gets neither profit nor loss = 22C

Let discount on the remaining 10 items = x

$$\Rightarrow 30C - \frac{x}{100} \times 30C = 22C$$

$$\Rightarrow \frac{x}{100} \times 30C = 8C$$

$$\Rightarrow x = 26.66\%$$

with 26.66% discount on remaining items he has no gain or loss

∴ The maximum discount he can offer on the remaining items where he can still earn profit = 26%

Hence, the correct answer is Option B

Question 54

A can finish a piece of work in a certain number of days. B takes 45% more number of days to finish the same work independently. They worked together for 58 days and then the remaining work was done by B alone in 29 days. In how many days could A have completed the work, had he worked alone?

A 110 days

B 118 days

C 98 days

D 120 days

Answer: B

Explanation:

Let the number of days required for A alone to complete the work = 100a

$$\Rightarrow \text{Number of days required for B alone to complete the work} = 145a$$

Let the total work = W

$$\text{Work done by A in 1 day} = \frac{W}{100a}$$

$$\text{Work done by B in 1 day} = \frac{W}{145a}$$

$$\text{Work done by A and B in 1 day} = \frac{W}{100a} + \frac{W}{145a} = \frac{245W}{14500a} = \frac{49W}{2900a}$$

$$\text{Work done by A and B in 58 days} = 58 \times \frac{49W}{2900a} = \frac{49W}{50a}$$

$$\text{Remaining work} = W - \frac{49W}{50a}$$

Remaining work is completed by B in 29 days

$$\Rightarrow W - \frac{49W}{50a} = \frac{29W}{145a}$$

$$\Rightarrow W = \frac{29W}{145a} + \frac{49W}{50a}$$

$$\Rightarrow W = \frac{1450W + 7105W}{145 \times 50 \times a}$$

$$\Rightarrow W = \frac{8555W}{145 \times 50 \times a}$$

$$\Rightarrow W = \frac{59W}{50a}$$

$$\Rightarrow 50a = 59$$

$$\Rightarrow 100a = 118$$

∴ Number of days required for A alone to complete the work = $100a = 118$ days

Hence, the correct answer is Option B

SSC CHSL Important Questions and Answers (Download PDF)

Question 55

If $x^4 + \frac{1}{x^4} = \frac{257}{16}$ then find $\frac{8}{13} \left(x^3 + \frac{1}{x^3}\right)$, where $x > 0$.

A 6

B 4

C 8

D 5

Answer: D

Explanation:

$$x^4 + \frac{1}{x^4} = \frac{257}{16}$$

$$\Rightarrow x^4 + \frac{1}{x^4} + 2 = \frac{257}{16} + 2$$

$$\Rightarrow \left(x^2 + \frac{1}{x^2}\right)^2 = \frac{289}{16}$$

$$\Rightarrow x^2 + \frac{1}{x^2} = \frac{17}{4}$$

$$\Rightarrow x^2 + \frac{1}{x^2} + 2 = \frac{17}{4} + 2$$

$$\Rightarrow \left(x + \frac{1}{x}\right)^2 = \frac{25}{4}$$

$$\Rightarrow x + \frac{1}{x} = \frac{5}{2}$$

$$\Rightarrow \left(x + \frac{1}{x}\right)^3 = \left(\frac{5}{2}\right)^3$$

$$\Rightarrow x^3 + \frac{1}{x^3} + 3 \cdot x \cdot \frac{1}{x} \left(x + \frac{1}{x}\right) = \frac{125}{8}$$

$$\Rightarrow x^3 + \frac{1}{x^3} + 3 \left(\frac{5}{2}\right) = \frac{125}{8}$$

$$\Rightarrow x^3 + \frac{1}{x^3} = \frac{125}{8} - \frac{15}{2}$$

$$\Rightarrow x^3 + \frac{1}{x^3} = \frac{65}{8}$$

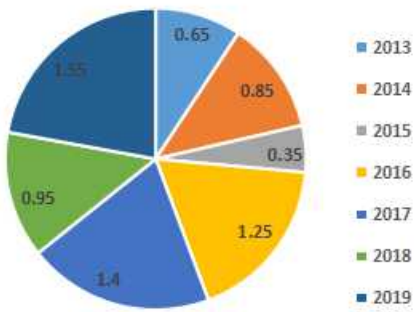
$$\therefore \frac{8}{13} \left(x^3 + \frac{1}{x^3}\right) = \frac{8}{13} \times \frac{65}{8}$$

$$\Rightarrow \frac{8}{13} \left(x^3 + \frac{1}{x^3}\right) = 5$$

Hence, the correct answer is Option D

Question 56

The following pie chart shows the ratio of the amount of imports by a company to the amount of exports from that company from 2013 to 2019.



If the imports in 2016 were ₹250 million and the total exports in the years 2016 and 2017 together were ₹500 million, then the imports in 2017 were:

- A ₹320 million
- B ₹620 million
- C ₹420 million
- D ₹520 million

Answer: C

Explanation:

From the pie chart,

Ratio of imports to exports in 2016 = 1.25

Given,

Imports in 2016 = ₹250 million

Let the exports in 2016 = a

$$\Rightarrow \frac{250}{a} = 1.25$$

$$\Rightarrow a = \frac{250}{1.25}$$

$$\Rightarrow a = 200$$

Exports in 2016 = ₹200 million

The total exports in the years 2016 and 2017 = ₹500 million

$$\Rightarrow \text{Exports in 2017} = 500 - 200 = ₹300 \text{ million}$$

Ratio of imports to exports in 2017 = 1.4

$$\Rightarrow \text{Imports in 2017} = 1.4 \times 300 = ₹420 \text{ million}$$

Hence, the correct answer is Option C

Question 57

If $\sec A = \frac{\sqrt{11}}{3}$, then the value of $\frac{\operatorname{cosec}^2 A + \tan^2 A}{\sin^2 A + \cot^2 A}$ is:

- A $\frac{9}{4}$
- B $\frac{11}{9}$
- C $\frac{2}{11}$

D $\frac{4}{9}$

Answer: B

Explanation:

$$\text{Given, } \sec A = \frac{\sqrt{11}}{3}$$

$$\Rightarrow \cos A = \frac{3}{\sqrt{11}}$$

$$\frac{\operatorname{cosec}^2 A + \tan^2 A}{\sin^2 A + \cot^2 A} = \frac{\frac{1}{\sin^2 A} + \tan^2 A}{\sin^2 A + \frac{1}{\tan^2 A}}$$

$$= \frac{1 - \cos^2 A + \sec^2 A - 1}{1 - \cos^2 A + \sec^2 A - 1}$$

$$= \frac{1 - \left(\frac{3}{\sqrt{11}}\right)^2 + \left(\frac{\sqrt{11}}{3}\right)^2 - 1}{1 - \left(\frac{3}{\sqrt{11}}\right)^2 + \left(\frac{\sqrt{11}}{3}\right)^2 - 1}$$

$$= \frac{1 - \frac{9}{11} + \frac{11}{9} - 1}{1 - \frac{9}{11} + \frac{11}{9} - 1}$$

$$= \frac{\frac{11}{2} + \frac{9}{2}}{11 + 2}$$

$$= \frac{99 + 4}{4 + 99}$$

$$= \frac{103}{18} \times \frac{22}{103}$$

$$= \frac{11}{9}$$

Hence, the correct answer is Option B

SSC CHSL Study Material

Question 58

If $a + b = 8$ and $a + a^2b + b + ab^2 = 128$ then the positive value of $a^3 + b^3$ is:

A 344

B 96

C 224

D 152

Answer: D

Explanation:

$$\text{Given, } a + b = 8$$

$$a + a^2b + b + ab^2 = 128$$

$$\Rightarrow a(1 + ab) + b(1 + ab) = 128$$

$$\Rightarrow (1 + ab)(a + b) = 128$$

$$\Rightarrow (1 + ab)8 = 128$$

$$\Rightarrow 1 + ab = \frac{128}{8}$$

$$\Rightarrow 1 + ab = 16$$

$$\Rightarrow ab = 15$$

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

$$= 8(a^2 + b^2 + 2ab - 3ab)$$

$$= 8((a + b)^2 - 3ab)$$

$$= 8(8^2 - 3(15))$$

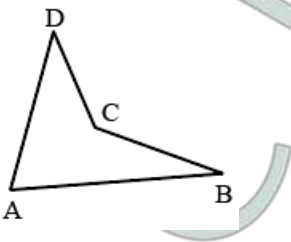
$$= 8(64 - 45)$$

$$= 152$$

Hence, the correct answer is Option D

Question 59

If in the following figure (not to scale), $\angle DAB + \angle CBA = 90^\circ$, $BC = AD$, $AB = 20$ cm, $CD = 10$ cm then the area of the quadrilateral ABCD is:



A 120 cm^2

B 75 cm^2

C 100 cm^2

D 150 cm^2

Answer: B

Question 60

Evaluate $45 - 5$ of $(63 \div 9) + 7 \times 5$.

A 40

B 45

C 42

D 50

Answer: B

Explanation:

$$45 - 5 \text{ of } (63 \div 9) + 7 \times 5$$

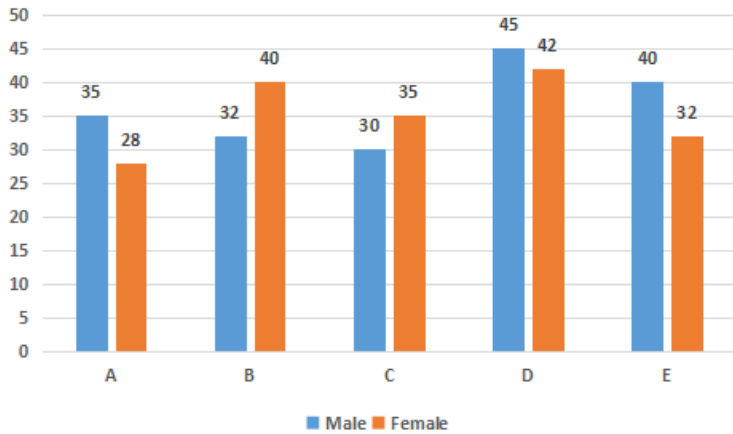
$$= 45 - 5(7) + 7 \times 5$$

$$= 45 - 35 + 35$$

$$= 45$$

Question 61

The following graph gives the details of the male and female population (in thousands) across five places A, B, C, D and E.



Based on the information, the total number of females in all five places is approximately what percentage of the total number of males in all five places?

- A 95%
- B 99%
- C 97%
- D 94%

Answer: C

Explanation:

Total number of females in all five places = 28+40+35+42+32 = 177

Total number of males in all five places = 35+32+30+46+40 = 182

$$\therefore \text{Required percentage} = \frac{177}{182} \times 100 = 97.25\%$$

Hence, the correct answer is Option C

Question 62

The distance between the places H and O is D units. The average speed that gets a person from H to O in a stipulated time is S units. He takes 20 minutes more time than usual if he travels at 60 km/h, and reaches 44 minutes early if he travels at 75 km/h. The sum of the numerical values of D and S is:

- A 376
- B 358
- C 344
- D 384

Answer: D

Explanation:

Distance between places H and O = D units

Average speed of the person from H to O = S

He takes 20 minutes more time than usual if he travels at 60 km/h

$$\Rightarrow \frac{D}{60} - \frac{D}{S} = \frac{20}{60} \dots\dots\dots(1)$$

He reaches 44 minutes early than usual if he travels at 75 km/h

$$\Rightarrow \frac{D}{S} - \frac{D}{75} = \frac{44}{60} \dots\dots\dots(2)$$

Solving (1)+(2)

$$\frac{D}{60} - \frac{D}{75} = \frac{20}{60} + \frac{44}{60}$$

$$\Rightarrow \frac{15D}{60 \times 75} = \frac{64}{60}$$

$$\Rightarrow D = 320$$

$$\text{From (1), } \frac{320}{60} - \frac{320}{S} = \frac{20}{60}$$

$$\Rightarrow \frac{16}{60} - \frac{16}{S} = \frac{1}{60}$$

$$\Rightarrow \frac{16}{S} = \frac{16}{60} - \frac{1}{60}$$

$$\Rightarrow \frac{16}{S} = \frac{15}{60}$$

$$\Rightarrow S = 64$$

∴ Sum of D and S = 320 + 64 = 384

Hence, the correct answer is Option D

Question 63

If $A = \frac{(0.1)^3 + (0.2)^3 + (0.3)^3 + 3(0.005 + 0.016 + 0.027) + 0.036}{(0.1)^2 + (0.2)^2 + (0.3)^2 + 0.04 + 0.06 + 0.12}$, then the value of 60A is:

- A 36
- B 30
- C 60
- D 20

Answer: A

Explanation:

$$A = \frac{(0.1)^3 + (0.2)^3 + (0.3)^3 + 3(0.005 + 0.016 + 0.027) + 0.036}{(0.1)^2 + (0.2)^2 + (0.3)^2 + 0.04 + 0.06 + 0.12}$$

$$= \frac{0.001 + 0.008 + 0.027 + 3(0.048) + 0.036}{0.01 + 0.04 + 0.09 + 0.22}$$

$$= \frac{0.036 + 0.144 + 0.036}{0.01 + 0.04 + 0.09 + 0.22}$$

$$= \frac{0.216}{0.36}$$

$$= \frac{216}{360}$$

$$\Rightarrow 60A = 60 \times \frac{216}{360} = 36$$

Hence, the correct answer is Option A

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Question 64

If $\cos A, \sin A, \cot A$ are in geometric progression, then the value of $\tan^6 A - \tan^2 A$ is:

- A 1
- B $\frac{1}{2}$
- C 3

D $\frac{1}{3}$

Answer: A

Explanation:

Given, $\cos A, \sin A, \cot A$ are in geometric progression

$$\Rightarrow \sin^2 A = \cos A \cot A$$

$$\Rightarrow \sin^2 A = \cos A \frac{\cos A}{\sin A}$$

$$\Rightarrow \sin^3 A = \cos^2 A \dots\dots\dots(1)$$

$$\tan^6 A - \tan^2 A = \frac{\sin^6 A}{\cos^6 A} - \frac{\sin^2 A}{\cos^2 A}$$

$$= \frac{(\sin^3 A)^2}{\cos^6 A} - \frac{1 - \cos^2 A}{\cos^2 A}$$

$$= \frac{(\cos^2 A)^2}{\cos^6 A} - \frac{1}{\cos^2 A} + 1$$

$$= \frac{\cos^4 A}{\cos^6 A} - \frac{1}{\cos^2 A} + 1$$

$$= \frac{1}{\cos^2 A} - \frac{1}{\cos^2 A} + 1$$

$$= 1$$

Hence, the correct answer is Option A

Question 65

An oil merchant wants to make a minimum profit of ₹2,100 by selling 50 litres of oil he purchased at ₹236 per litre. For this, he adds a few litres of duplicate oil whose cost price is ₹180 per litre and sells at ₹250 per litre. How many litres of duplicate oil is needed for this purpose?

A 16 litres

B 18 litres

C 20 litres

D 22 litres

Answer: C

Explanation:

Let the number of litres of duplicate oil added = a

$$\text{Cost price of the oil merchant} = 50(236) + a(180) = 180a + 11800$$

$$\text{Selling price of the oil merchant} = (50+a)250 = 250a + 12500$$

$$\text{Profit} = ₹2,100$$

$$\Rightarrow 250a + 12500 - (180a + 11800) = 2100$$

$$\Rightarrow 250a + 12500 - 180a - 11800 = 2100$$

$$\Rightarrow 70a = 2100 - 700$$

$$\Rightarrow 70a = 1400$$

$$\Rightarrow a = 20$$

∴ Number of litres of duplicate oil added = 20 litres

Hence, the correct answer is Option C

Question 66

A triangle has sides 25, 39, 34 units. If the area of a square exceeds the area of this triangle by 21 units, then the side of the square is:

- A 22 units
- B 18 units
- C 25 units
- D 21 units

Answer: D

Explanation:

Given, length of sides of triangle

$$a=25, b=39, c=34$$

$$\text{Semiperimeter of triangle}(s) = \frac{a+b+c}{2} = \frac{25+39+34}{2} = 49$$

$$\text{Area of triangle} = \sqrt{s(s-a)(s-b)(s-c)}$$

$$= \sqrt{49(49-25)(49-39)(49-34)}$$

$$= \sqrt{49 \times 24 \times 10 \times 15}$$

$$= \sqrt{49 \times 4 \times 6 \times 2 \times 5 \times 3 \times 5}$$

$$= \sqrt{49 \times 4 \times 6 \times 6 \times 5 \times 5}$$

$$= 7 \times 2 \times 6 \times 5 = 420$$

$$\text{Area of Square} = \text{Area of triangle} + 21 = 420+21 = 441$$

$$\therefore \text{Side of Square} = \sqrt{441} = 21 \text{ units}$$

Hence, the correct answer is Option D

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Question 67

If $\frac{(1+\sin\theta-\cos\theta)}{(1+\sin\theta+\cos\theta)} + \frac{(1+\sin\theta+\cos\theta)}{(1+\sin\theta-\cos\theta)} = 4$, then which of the following values will be suitable for θ

- A 45°
- B 30°
- C 90°
- D 60°

Answer: B

Explanation:

$$\frac{(1+\sin\theta-\cos\theta)}{(1+\sin\theta+\cos\theta)} + \frac{(1+\sin\theta+\cos\theta)}{(1+\sin\theta-\cos\theta)} = 4$$

$$\Rightarrow \frac{(1+\sin\theta-\cos\theta)^2 + (1+\sin\theta+\cos\theta)^2}{(1+\sin\theta+\cos\theta)(1+\sin\theta-\cos\theta)} = 4$$

$$\Rightarrow \frac{(1+\sin\theta)^2 + \cos^2\theta - 2(1+\sin\theta)\cos\theta + (1+\sin\theta)^2 + \cos^2\theta + 2(1+\sin\theta)\cos\theta}{(1+\sin\theta)^2 - \cos^2\theta} = 4$$

$$\Rightarrow \frac{2(1+\sin^2\theta + 2\sin\theta) + 2\cos^2\theta}{1+\sin^2\theta + 2\sin\theta - \cos^2\theta} = 4$$

$$\Rightarrow 2 + 2\sin^2\theta + 4\sin\theta + 2\cos^2\theta = 4 + 4\sin^2\theta + 8\sin\theta - 4\cos^2\theta$$

$$\Rightarrow 2 + 2(\sin^2\theta + \cos^2\theta) = 4 + 4\sin^2\theta + 4\sin\theta - 4(1 - \sin^2\theta)$$

$$\Rightarrow 2 + 2 = 4 + 4 \sin^2 \theta + 4 \sin \theta - 4(1 - \sin^2 \theta)$$

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

$$\Rightarrow 8 \sin^2 \theta + 4 \sin \theta - 4 = 0$$

$$\Rightarrow 2 \sin^2 \theta + \sin \theta - 1 = 0$$

$$\Rightarrow 2 \sin^2 \theta + 2 \sin \theta - \sin \theta - 1 = 0$$

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

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

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

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

$\sin \theta$ cannot be negative

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

$$\Rightarrow \theta = 30^\circ$$

Hence, the correct answer is Option D

Question 68

The numbers 24, 45, a, 35, 59, 83, 46, b, 29, 74 are serially numbered as they appear in the sequence. When each number is added to its serial number, then the average of the new numbers formed is 55. The average of the missing numbers (a and b) is:

A 62

B 38

C 50

D 58

Answer: C

Explanation:

Given numbers are 24, 45, a, 35, 59, 83, 46, b, 29, 74

Each number is added to its serial number, then the average of the new numbers formed is 55

$$\text{Sum of the numbers} = 55 \times 10 = 550$$

$$\Rightarrow (24 + 1) + (45 + 2) + (a + 3) + (35 + 4) + (59 + 5) + (83 + 6) + (46 + 7) + (b + 8) + (29 + 9) + (74 + 10) = 550$$

$$\Rightarrow 24 + 45 + a + 35 + 59 + 83 + 46 + b + 29 + 74 + (1 + 2 + \dots + 10) = 550$$

$$\Rightarrow 395 + a + b + \frac{10(10+1)}{2} = 550$$

$$\Rightarrow 395 + a + b + 55 = 550$$

$$\Rightarrow 450 + a + b = 550$$

$$\Rightarrow a + b = 100$$

$$\Rightarrow \frac{a+b}{2} = 50$$

\therefore Average of a and b = 50

Hence, the correct answer is Option C

Question 69

The ratio of a man's age to his father's age is 4 : 5, and the ratio of his age to his son's age is 6 : 1. Four years ago these ratios were 11 : 14 and 11 : 1, respectively. The ratio of the age of the grand father to that of the grandson 12 years from now will be:

A 12 : 5

B 18 : 5

C 14 : 3

D 18 : 7

Answer: B

Explanation:

Given,

The ratio of a man's age to his father's age is 4 : 5

Let the age of man and his father is $24a$ and $30a$

The ratio of man's age to his son's age is 6 : 1

\Rightarrow Age of his son = $4a$

Four years ago the ratio of ages of the man and his son = 11 : 1

$$\Rightarrow \frac{24a-4}{4a-4} = \frac{11}{1}$$

$$\Rightarrow 24a - 4 = 44a - 44$$

$$\Rightarrow 20a = 40$$

$$\Rightarrow a = 2$$

\therefore The ratio of the age of the grand father to that of the grandson 12 years from now = $30a+12 : 4a+12$

$$= 30(2)+12 : 4(2)+12$$

$$= 60+12 : 8+12$$

$$= 72 : 20$$

$$= 18 : 5$$

Hence, the correct answer is Option B

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Question 70

A sphere is placed in a cube so that it touches all the faces of the cube. If 'a' is the ratio of the volume of the cube to the volume of the sphere, and 'b' is the ratio of the surface area of the sphere to the surface area of the cube, then the value of ab is:

A $\frac{\pi^2}{36}$

B 1

C 4

D $\frac{36}{\pi^2}$

Answer: B

Explanation:

Let the radius of the sphere = r

Since the sphere touches all the faces of the cube

The length of the each side of the cube = Diameter of the sphere = $2r$

Given, 'a' is the ratio of the volume of the cube to the volume of the sphere

$$\Rightarrow a = \frac{(2r)^3}{\frac{4}{3}\pi r^3}$$

$$\Rightarrow a = \frac{48r^3}{3\pi r^3}$$

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

'b' is the ratio of the surface area of the sphere to the surface area of the cube

$$\Rightarrow b = \frac{4\pi r^2}{6(2r)^2}$$

$$\Rightarrow b = \frac{4\pi r^2}{24r^2}$$

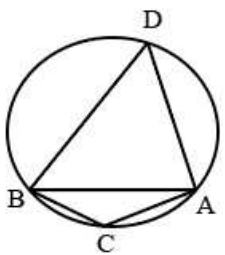
$$\Rightarrow b = \frac{\pi}{6}$$

$$\therefore ab = \frac{6}{\pi} \times \frac{\pi}{6} = 1$$

Hence, the correct answer is Option B

Question 71

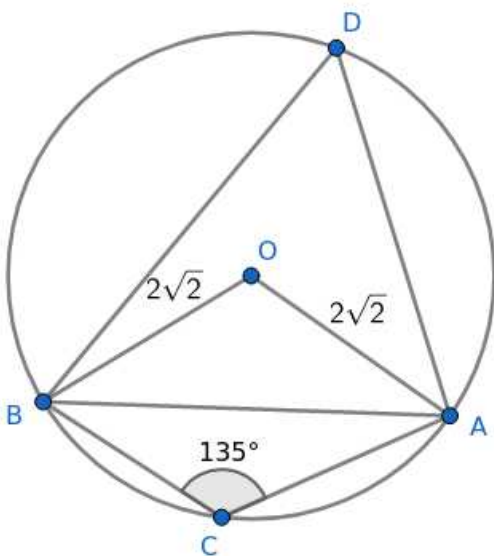
If in the following figure (not to the scale), $\angle ACB = 135^\circ$ and the radius of the circle is $2\sqrt{2}$ cm, then the length of the chord AB is:



- A 4 cm
- B $3\sqrt{2}$ cm
- C 6 cm
- D $4\sqrt{2}$ cm

Answer: A

Explanation:



In cyclic quadrilateral ACBD,
 Sum of opposite angles = 180°
 $\Rightarrow \angle ACB + \angle ADB = 180^\circ$
 $\Rightarrow 135^\circ + \angle ADB = 180^\circ$

$$\Rightarrow \angle ADB = 45^\circ$$

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

$$\Rightarrow \angle AOB = 2\angle ADB$$

$$\Rightarrow \angle AOB = 2(45^\circ)$$

$$\Rightarrow \angle AOB = 90^\circ$$

In $\triangle AOB$,

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

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

$$\Rightarrow AB^2 = 8 + 8$$

$$\Rightarrow AB^2 = 16$$

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

\therefore Length of the chord = 4 cm

Hence, the correct answer is Option A

Question 72

If each edge of a cube is increased by 10%, then the percentage increase in its surface area is:

A 22%

B 19%

C 20%

D 21%

Answer: D

Explanation:

Let the edge of the cube = a

Surface area of the cube = $6a^2$

Edge of the cube if increased by 10% = $\frac{110}{100} \times a = \frac{11}{10}a$

Surface area of the cube after increase = $6 \left(\frac{11}{10}a\right)^2 = 6 \left(\frac{121}{100}a^2\right)$

\therefore Percentage increase Surface = $\frac{6 \left(\frac{121}{100}a^2\right) - 6a^2}{6a^2} \times 100$

$$= \frac{\frac{21}{100}a^2}{a^2} \times 100$$

$$= \frac{21}{100} \times 100$$

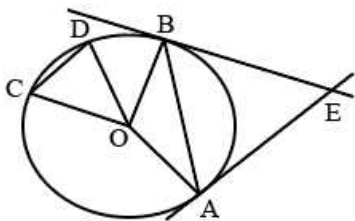
$$= 21\%$$

Hence, the correct answer is Option D

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Question 73

In the following figure (not to scale), at the centre O if the chord AB subtends double the angle that is subtended by chord CD and the angle $\angle AEB = 2\angle AOB$, then $\angle COD$ is equal to:



- A 30°
- B 45°
- C 75°
- D 60°

Answer: A

Explanation:

Given, the chord AB subtends double the angle that is subtended by chord CD at the centre O

$$\Rightarrow \angle AOB = 2\angle COD$$

Let $\angle COD = a$

$$\Rightarrow \angle AOB = 2a$$

$$\angle AEB = 2\angle AOB$$

$$\Rightarrow \angle AEB = 2(2a) = 4a$$

In quadrilateral OAEB,

$$\angle AOB + \angle OBE + \angle AEB + \angle OAE = 360^\circ$$

$$\Rightarrow 2a + 90^\circ + 4a + 90^\circ = 360^\circ$$

$$\Rightarrow 6a + 180^\circ = 360^\circ$$

$$\Rightarrow 6a = 180^\circ$$

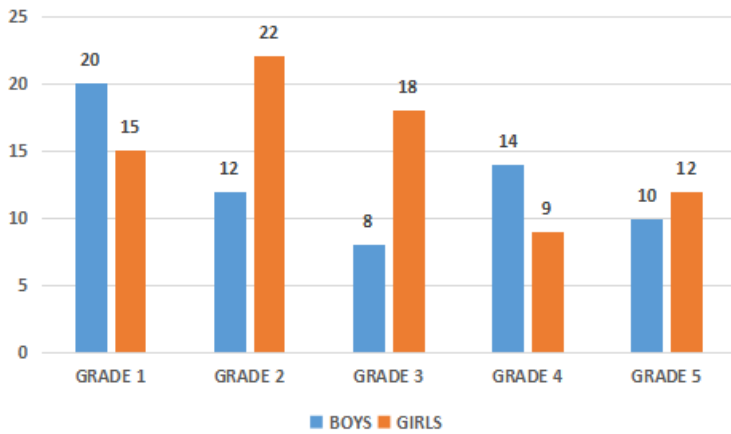
$$\Rightarrow a = 30^\circ$$

$$\Rightarrow \angle COD = 30^\circ$$

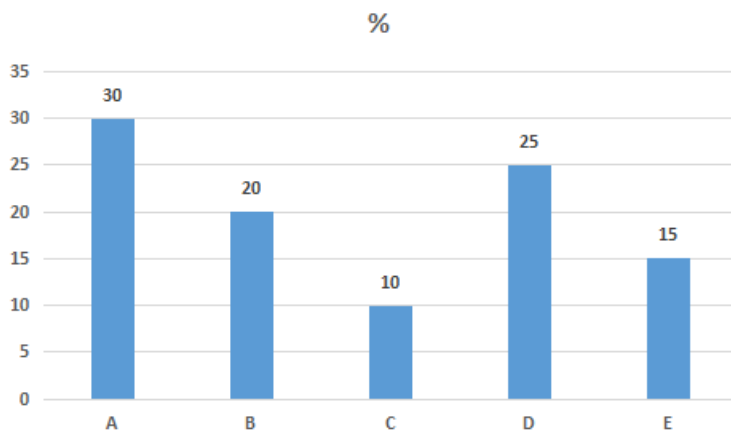
Hence, the correct answer is Option A

Question 74

The first graph shows the number of students (boys and girls in thousands) in Grade 1 to Grade 5.



And the bar graph below shows the percentage share of five schools in the total students studying in that class.



Based on the information, if the boys to girls ratio in school D is 3 : 1, then the number of boys studying in School D is:

- A 25550
- B 22450
- C 26250
- D 28750

Answer: C

Explanation:

From the graph,

Total number of students in all grades = $20000 + 15000 + 12000 + 22000 + 8000 + 18000 + 14000 + 9000 + 10000 + 12000 = 140000$

Number of students in School D = $\frac{25}{100} \times 140000 = 35000$

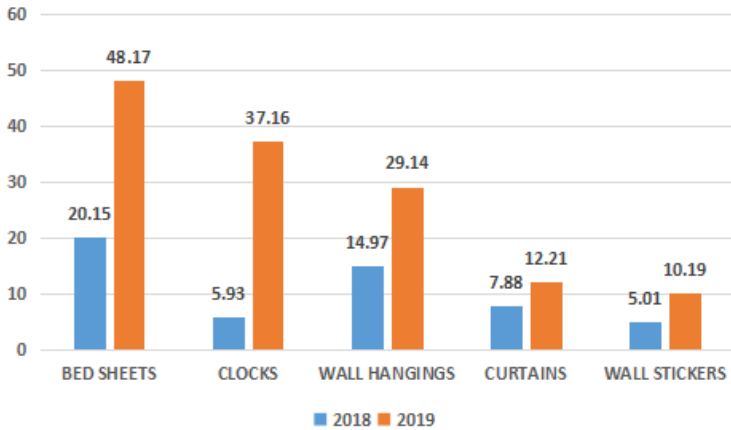
Given, ratio of boys to girls in School D = 3:1

Number of boys in School D = $\frac{3}{3+1} \times 35000 = \frac{3}{4} \times 35000 = 26250$

Hence, the correct answer is Option C

Question 75

A home decor company produces five different products - Bed sheets, Clocks, Wall hangings, Curtains and Wall stickers. The sales of these five products (in lakh number of packs) during 2018 and 2019 are shown in the following bar-graph.



Based on the given information, sales have increased by nearly 55% from 2018 to 2019 in the case of:

- A Wall hangings
- B Wall stickers
- C Bed sheets
- D Curtains

Answer: D

Explanation:

From the graph,

$$\text{Percentage increase in Bed sheets from 2018 to 2019} = \frac{48.17 - 20.15}{20.15} \times 100 = \frac{28.02}{20.15} \times 100 = 139.05\%$$

$$\text{Percentage increase in Wall hangings from 2018 to 2019} = \frac{37.16 - 5.93}{5.93} \times 100 = \frac{31.23}{5.93} \times 100 = 526.64\%$$

$$\text{Percentage increase in Curtains from 2018 to 2019} = \frac{12.21 - 7.88}{7.88} \times 100 = \frac{4.33}{7.88} \times 100 = 54.95\%$$

$$\text{Percentage increase in Wall stickers from 2018 to 2019} = \frac{10.19 - 5.01}{5.01} \times 100 = \frac{5.18}{5.01} \times 100 = 103.39\%$$

∴ The percentage increase in Curtains from 2018 to 2019 is nearly 55%

Hence, the correct answer is Option D

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General Awareness

Instructions

For the following questions answer them individually

Question 76

Which Indian banknote released in November 2016 features Mangalyaan on the reverse side?

- A ₹500
- B ₹2,000
- C ₹200
- D ₹100

Answer: B

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Question 77

Which function key displays the Print Preview window in Microsoft Office?

- A Ctrl + F2
- B Alt + Ctrl + F2
- C Shift + F2
- D Alt + F2

Answer: A

Question 78

When was the Backward and Minority Communities Employees Federation (BAMCEF) established in India?

- A 1979
- B 1978
- C 1982
- D 1980

Answer: B

Question 79

India shares its land boundaries with which countries in the east?

- A Myanmar and Bangladesh
- B China, Nepal and Bhutan
- C Bhutan and Afghanistan
- D Pakistan and Afghanistan

Answer: A

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Question 80

Which former Indian cricketer was honored with the 'Bharat Gaurav Award' by the East Bengal Football Club in 2019?

- A Sunil Gavaskar
- B Sachin Tendulkar
- C Rahul Dravid
- D Kapil Dev

Answer: D

Question 81

Which governor general of India abolished Sati system in 1829 by declaring it an offence?

- A Lord William Bentinck
- B Lord Wellesley
- C Lord Dalhousie
- D Lord Cornwallis

Answer: A

Question 82

In 1930, which scientist was awarded the Nobel Prize for describing the human ABO blood group system?

- A George Wald
- B Karl Landsteiner
- C Albert Claude
- D Roger Guillemin

Answer: B

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Question 83

How many parathyroid glands are present on the back side of the thyroid gland in humans?

- A Six
- B Five
- C Three
- D Four

Answer: D

Question 84

As per 'India State of Forest Report 2019', which state secured first position for the highest growth in forest area in the country?

- A Karnataka
- B Andhra Pradesh
- C Odisha
- D Madhya Pradesh

Answer: A

Question 85

In which state was the 8th edition of the India-China joint training exercise 'Hand-in-Hand 2019' held?

- A Manipur
- B Kerala
- C Maharashtra
- D Meghalaya

Answer: D

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Question 86

How many agro-climatic zones (ACZ) are characterised by the Planning Commission of India?

- A 20
- B 10
- C 15
- D 30

Answer: C

Question 87

In which year did the JavaScript Programming language come into existence?

- A 1995
- B 1999
- C 1990
- D 2000

Answer: A

Question 88

Who was conferred with the 'Female Sportsperson of the Year' award at the 'FICCI India Sports Awards 2019'?

- A Mary Kom
- B Rani Rampal
- C PV Sindhu
- D Geeta Phogat

Answer: B

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Question 89

What is the mission life of the Cartosat-3 satellite launched by PSLV C-47 on 27 November 2019?

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

Answer: C

Question 90

How many elements of India were listed in the UNESCO Representative List of the Intangible Cultural Heritage of Humanity as of March 2018?

- A 13
- B 14
- C 15
- D 18

Answer: A

Question 91

Which of the following is an example of the most explosive type of volcano?

- A Calderas volcanoes
- B Cinder cones volcanoes
- C Flood basalt volcanoes
- D Shield volcanoes

Answer: A

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Question 92

Which famous personality said the following?

“Don't take rest after your first victory because if you fail in second, more lips are waiting to say that your first victory was just luck?”

- A APJ Abdul Kalam
- B Atal Bihari Vajpayee
- C Homi Bhabha
- D Amartya Sen

Answer: A

Question 93

When was the first Constituent Assembly election held in India?

- A 1947

B 1946

C 1949

D 1948

Answer: B

Question 94

Which Chola ruler was popularly called 'Victor of the Ganges'?

A Gandaraditya Chola

B Rajendra Chola I

C Parantaka Chola I

D Vijayalaya Chola

Answer: B

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Question 95

'Sattriya' is a traditional Hindu classical dance form of which state?

A Odisha

B Manipur

C Goa

D Assam

Answer: D

Question 96

Cinnabar (HgS) is an ore of which metal?

A Aluminum

B Gold

C Silver

D Mercury

Answer: D

Question 97

Which of the following is a famous fossil site in India where a full-fledged skeleton of a dinosaur was found?

A Zaskar Valley, Kashmir

B Hathnora, Madhya Pradesh

C Waddham, Maharashtra

D Manendragarh, Chhattisgarh

Answer: C

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Question 98

Which of the following companies was conferred with Maharatna status in October 2019?

A Hindustan Petroleum Corporation Limited

B GAIL (India) Limited

C Steel Authority of India limited

D Bharat Petroleum Corporation Limited

Answer: A

Question 99

Which Indian writer was awarded the 'Rabindranath Tagore Literary Prize 2019'?

A Shashi Tharoor

B Arundhati Roy

C Ramachandra Guha

D Rana Dasgupta

Answer: D

Question 100

The Maharaja Ranjit Singh Gold Cup is associated with _____.

A Polo

B Football

C Cricket

D Hockey

Answer: D

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