



SSC CHSL 1 November 2015 Evening Shift

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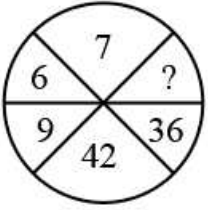
Reasoning

Instructions

For the following questions answer them individually

Question 1

Select the missing number from the given responses.



A 54

B 78

C 34

D 24

Answer: A

Explanation:

The logic here is opposite number is multiplied by 6 as shown below

$$7 \times 6 = 42$$

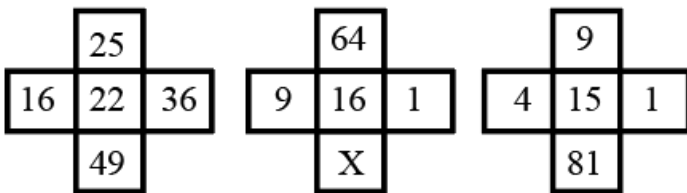
$$6 \times 6 = 36$$

Similarly, $9 \times 6 = 54$

\therefore The missing number is 54

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Question 2



A 4

B 2

C 16

D 32

Answer: C

Explanation:

From first figure,

$$\sqrt{25} + \sqrt{16} + \sqrt{49} + \sqrt{36} = 5 + 4 + 7 + 6 = 22$$

From third figure,

$$\sqrt{9} + \sqrt{4} + \sqrt{81} + \sqrt{1} = 3 + 2 + 9 + 1 = 15$$

The number in the middle is the sum of the square root of surrounding numbers in the figure

Similarly from second figure,

$$\sqrt{64} + \sqrt{9} + \sqrt{X} + \sqrt{1} = 16$$

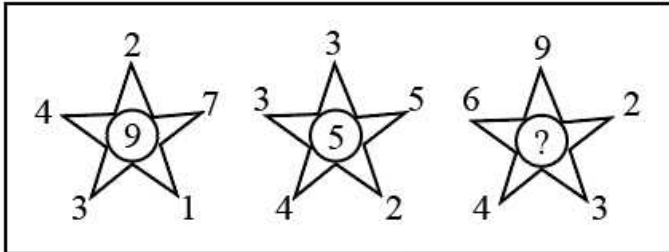
$$\Rightarrow 8 + 3 + \sqrt{X} + 1 = 16$$

$$\Rightarrow \sqrt{X} = 4$$

$$\Rightarrow X = 16$$

Hence, the correct answer is Option C

Question 3



A 11

B 10

C 7

D 4

Answer: B

Explanation:

The logic here is

$$(4 + 2 + 7) - (3 + 1) = 9$$

$$(3 + 3 + 5) - (4 + 2) = 5$$

The difference of sum of top numbers of the star and sum of bottom numbers of the star is equal to the middle number of the star.

$$\text{Similarly, the required number} = (6 + 9 + 2) - (4 + 3) = 17 - 7 = 10$$

Hence, the correct answer is Option B

Question 4

5	6	7	8
10	18	21	40
7	9	10	?

A 13

B 11

C 20

D 15

Answer: A

Explanation:

From the first column,

$$5 \times 2 = 10$$

$$5 + 2 = 7$$

From the second column,

$$6 \times 3 = 18$$

$$6 + 3 = 9$$

From the third column,

$$7 \times 3 = 21$$

$$7 + 3 = 10$$

Similarly from the fourth column,

$$8 \times 5 = 40$$

$$8 + 5 = 13$$

∴ The required number = 13

Hence, the correct answer is Option A

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Instructions

A series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.

Question 5

127, 137, 139, ?, 151, 157, 163, 167.

A 141

B 143

C 147

D 149

Answer: C

Explanation:

The given series is an alternate series of 127, 139, 151, 163 and 137, ?, 157, 167

From second series,

$$137 + 10 = 147$$

$$147 + 10 = 157$$

$$157 + 10 = 167$$

∴ The required number = 147

Hence, the correct answer is Option C

Question 6

1, 1, 2, 3, 5, ?, 13, 21

A 6

B 8

C 7

D 9

Answer: B

Explanation:

The logic here is number is equal to its sum of preceding two numbers

$$1 + 1 = 2$$

$$2 + 1 = 3$$

$$3 + 2 = 5$$

Similarly the next number is

$$5 + 3 = 8$$

∴ The required number is 8

Hence, the correct answer is Option B

Question 7

361, ?, 169, 121, 49, 25.

A 289

B 196

C 256

D 324

Answer: A

Explanation:

361, ?, 169, 121, 49, 25

19^2 , ?, 13^2 , 11^2 , 7^2 , 5^2

The given series is square of prime numbers decreasing left to right

∴ The required number = $17^2 = 289$

Hence, the correct answer is Option A

SSC CHSL Previous Papers (DOWNLOAD PDF)

Instructions

Find the odd word/letters/number from the given alternatives.

Question 8

A aacdff

B ggijkk

C mmopqq

D qqstuu

Answer: A

Explanation:

In ggijkk, mmopqq, qqstuu, the last two letters are next letter of the third letter from the last.

In aacdff, the last two letters are not next letter of the third letter from the last.

∴ aacdff is the odd one among the given letter clusters.

Hence, the correct answer is Option A

Question 9

A 6

- B 15
- C 12
- D 17

Answer: D

Explanation:

6, 15, 12 are composite numbers

17 is prime number

∴ 17 is the odd one among the given numbers

Hence, the correct answer is Option D

Question 10

- A 853
- B 734
- C 532
- D 751

Answer: D

Explanation:

In all the numbers except 751, the sum of second and third digit is equal to the first digit as shown below

$$5 + 3 = 8$$

$$3 + 4 = 7$$

$$3 + 2 = 5$$

∴ The odd among the given numbers is 751

Hence, the correct answer is Option D

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Question 11

- A solid
- B Plump
- C Fathom
- D Thick

Answer: C

Explanation:

Solid, plump and thick are similar words whereas fathom usually refers depth

∴ Fathom is odd one among the given words

Hence, the correct answer is Option C

Question 12

- A Whim
- B Quirk

- C Caprice
- D Foible

Answer: D

Explanation:

Whim, Quirk, Caprice are synonyms of each other which means sudden change of behaviour whereas foible means a minor weakness.

∴ Foible is the odd one among the given words.

Hence, the correct answer is Option D

Question 13

- A FUEV
- B QPSR
- C VUXW
- D YXWV

Answer: A

Explanation:

In all the letter clusters except in FUEV, first and second letter are consecutive letters in alphabetical order. Also third and fourth letter are consecutive letters in alphabetical order.

∴ The odd one among the given letter clusters is FUEV

Hence, the correct answer is Option A

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Question 14

- A RQP
- B HGF
- C NPR
- D DCB

Answer: C

Explanation:

In all letter clusters except in NPR, all the letters are consecutive letters in alphabetical order from right to left.

∴ NPR is the odd one among the given letter clusters

Hence, the correct answer is Option C

Question 15

- A IJKL
- B PONM
- C HGFE
- D DCBA

Answer: A

Explanation:

In all the letter clusters except in IJKL, all the letters are consecutive letters from right to left. In IJKL, letters are consecutive letters from left to right.

∴ IJKL is the odd one among the given letter clusters

Hence, the correct answer is Option A

Question 16

A 3463

B 5725

C 6514

D 8948

Answer: C

Explanation:

In 3463, 5725, 8948, the last two digits of the number are same.

In 6514, the last two digits of the number are not same.

∴ 6514 is the odd one among the given numbers.

Hence, the correct answer is Option C

SSC CHSL Important Questions and Answers (Download PDF)

Instructions

For the following questions answer them individually

Question 17

Arrange the following words as per the reverse order in a dictionary.

1. Multitude 2. Multinational 3. Multiplier 4. Multinomial 5. Multilingual

A 13425

B 54321

C 45321

D 13245

Answer: A

Explanation:

First 5 letters of all the words are same so verifying the sixth letter.

The sixth letter of Multilingual is 'l' which comes first in alphabetical order. So Multilingual is placed first in dictionary order. The sixth letter of Multitude 't' which comes later in alphabetical order. So Multitude is placed last according to dictionary order.

Among Multinational and Multinomial, the seventh letter of Multinational comes first in alphabetical order. So Multinational is placed second and Multinomial is placed third according to dictionary order. Remaining word Multiplier is placed fourth according to dictionary order.

∴ The order of words according to dictionary is Multilingual, Multinational, Multinomial, Multiplier, Multitude

⇒ The reverse order of dictionary is Multitude, Multiplier, Multinomial, Multinational, Multilingual

Hence, the correct answer is Option A

Instructions

Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?

Question 18

oopqop_qoo_qo_oqo_pq

- A opop
- B poop
- C oppo
- D pop

Answer: C

Explanation:

By Trial and Error method,

Option A

oopq | op**o**q | oo**p**q | o**o**oq | o**p**pq

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

Option B

oopq | lo**p**pq | oo**o**q | o**o**oq | o**p**pq

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

Option C

oopq | op**o**q | oo**p**q | o**p**oq | o**p**q

The above letters form a series.

Hence, the correct answer is Option C

Question 19

__ babbba_a__

- A babbb
- B baaab
- C ababb
- D bbaba

Answer: A

Explanation:

By Trial and Error method,

Option A

bababb | bababb

The above letters form a series.

Hence, the correct answer is Option A

Question 20

a_baa_baa_ba

- A bab

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- B bbb
- C bba
- D aab

Answer: B

Explanation:

By Trial and Error method,

Option A

abba | aaba | abba

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

Option B

abba | abba | abba

The above letters form a series.

Hence, the correct answer is Option B

Instructions

For the following questions answer them individually

Question 21

Which conclusion is true respect to the given statements

Statement:

1. All squares are rectangles.

2. All rectangles are polygons.

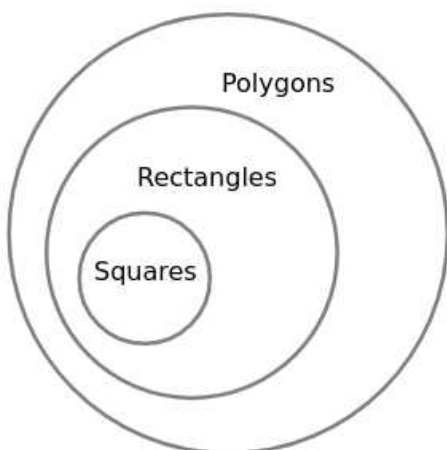
Conclusions:

- A Square is polygon
- B Square is not a rectangle
- C Square is not a polygon
- D Square is a rectangle and polygon.

Answer: D

Explanation:

The basic diagram for the given statements is

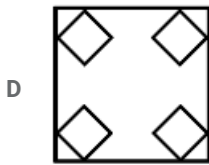
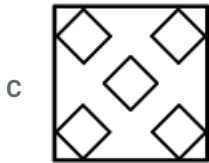
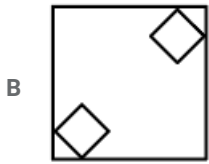
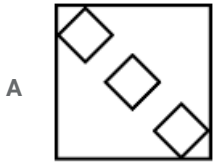
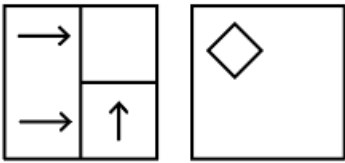


∴ Every square is a rectangle and polygon

Hence, the correct answer is Option D

Question 22

A piece of paper is folded and cut as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.



Answer: D

Explanation:

When the paper is opened, the pattern of cutting will be similar in the four parts of the paper.

When the paper is unfolded first to the bottom, a rhombus will appear similarly at the bottom side.

When the paper is unfolded again to the left, two rhombus one each on top left and bottom left will appear similarly on the paper.

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



Hence, the correct answer is Option D

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Instructions

Select the related word/ letters/ number from the given alternatives.

Question 23

Vacation: Holiday::Vocation:?

A Money

B Career

- C Degree
- D Pleasure

Answer: B

Explanation:

Vacation and Holiday are synonyms of each other

The synonym closest to Vocation is Career among the given words

∴ Vocation is related to Career in the same way Vacation and Holiday are related

Hence, the correct answer is Option B

Question 24

32:28::160:?

- A 80
- B 120
- C 140
- D 110

Answer: C

Explanation:

$$32 \times 5 = 160$$

Similarly,

$$28 \times 5 = 140$$

∴ The required number is 140

Hence, the correct answer is Option C

Question 25

SNAKE:VQDNH::CRADLE:?

- A FUDGOH
- B EVFGOF
- C EUDGOH
- D FVDGPH

Answer: A

Explanation:

$$S + 3 = V$$

$$N + 3 = Q$$

$$A + 3 = D$$

$$K + 3 = N$$

$$E + 3 = H$$

Similarly,

$$C + 3 = F$$

$$R + 3 = U$$

$$A + 3 = D$$

$$D + 3 = G$$

$$L + 3 = O$$

$$E + 3 = H$$

∴ CRADLE is related to FUDGOH in the same way as SNAKE is related to VQDNH

Hence, the correct answer is Option A

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Question 26

FE:HG::ML:?

A QP

B PO

C ON

D JI

Answer: C

Explanation:

$$F + 2 = H$$

$$E + 2 = G$$

Similarly,

$$M + 2 = O$$

$$L + 2 = N$$

∴ ML is related to ON in the same way FE is related to HG

Hence, the correct answer is Option C

Question 27

$\sqrt{AFI} : 13 :: \sqrt{DDA} : ?$

A 21

B 24

C 22

D 12

Answer: A

Explanation:

$$\sqrt{AFI} = \sqrt{169} = 13$$

Since A = 1, F = 6, I = 9

Similarly,

$$\sqrt{DDA} = \sqrt{441} = 21$$

∴ \sqrt{DDA} is related to 21 in the same way \sqrt{AFI} is related to 13

Hence, the correct answer is Option A

Question 28

Perch: Fresh Water:: ? : Salt water

- A Crocodile
- B Snake
- C Cod
- D Frog

Answer: C

Explanation:

Perch is a fish which lives in Fresh water where as Cod is a fish which lives in Salt water

∴ Cod is related to Salt water in the same way Perch is related to Fresh water

Hence, the correct answer is Option C

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Question 29

196 : 256 :: ? : 400

- A 144
- B 452
- C 324
- D 204

Answer: C

Explanation:

196 : 256 :: ? : 400

$14^2 : 16^2 :: ? : 20^2$

∴ The required number = $18^2 = 324$

Hence, the correct answer is Option C

Question 30

414 :: 636 :: 325 : ?

- A 414
- B 222
- C 636
- D 547

Answer: D

Explanation:

$414 + 222 = 636$

Similarly,

$325 + 222 = 547$

∴ The required number is 547

Hence, the correct answer is Option D

Question 31

Eyes: Tears:: ____ : ____

A Hunger : Bread

B Sea : Water

C Heart: Artery

D Volcano: Lava

Answer: D

Explanation:

Tears are secreted from Eyes whereas Lava is erupted from the Volcano.

∴ Volcano is related to Lava in the same way Eyes are related to Tears

Hence, the correct answer is Option D

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Instructions

For the following questions answer them individually

Question 32

Six faces of the dice are A,B,C,D,E and F. A is adjacent to B. B is adjacent to D but not C. E is adjacent to D and F. What is the side opposite to A?

A C

B F

C D

D E

Answer: D

Explanation:

Given, B is not adjacent to C

⇒ B is opposite to C, since only opposite face is not adjacent in the dice

E is adjacent to D and F, so E is not opposite to D and F

⇒ E is opposite to the remaining letter A

Hence, the correct answer is Option D

Question 33

Ali had ₹ 320. He spent $\frac{3}{4}$ of it to buy a watch. Of the remainder, he used $\frac{1}{8}$ of it to buy a pen. How much money is left?

A 70

B 120

C 90

D 100

Answer: A

Explanation:

Money spent to buy a watch = $\frac{3}{4} \times 320 = ₹ 240$

Remaining Amount = $320 - 240 = ₹ 80$

Money spent to buy a pen = $\frac{1}{8} \times 80 = ₹ 10$

∴ Money left with Ali after buying a watch and a pen = $320 - 240 - 10 = ₹ 70$

Hence, the correct answer is Option A

Question 34

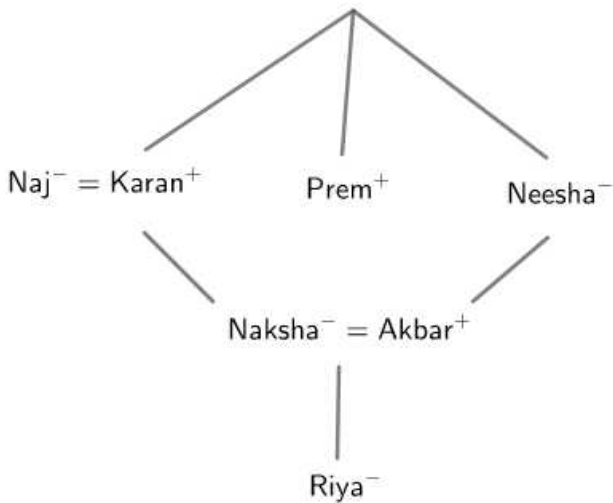
Karan has a brother 'Prem' and a sister 'Neesha'. Karan's wife is 'Naj' and has a daughter 'Naksha'. Naksha got married with Neesha's son Akbar and has a baby girl 'Riya'. What is relation between 'Naksha' and Neesha'?

- A Niece and Aunt
- B Mother and grand daughter
- C Sister
- D Mother and daughter

Answer: A

Explanation:

According to the problem, the family tree is



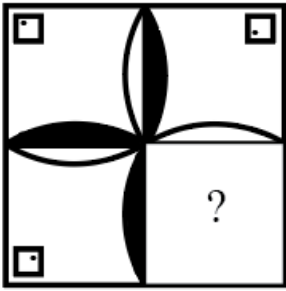
∴ Naksha is the niece and Neesha is the aunt

Hence, the correct answer is Option A

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Question 35

Which answer figure will complete the pattern in the question figure?



Answer: D

Explanation:

In the given figure, a black curve and a white curve are adjacent to each other. In the required part, the black curve should be towards top and the white curve should be towards left.

The dots in the small squares are towards the center and away from the center alternatively at the corners. In the required part the dot should be away from the center.

∴ The answer figure will complete the pattern in the question figure is



Hence, the correct answer is Option D

Instructions

From the given alternative words, select the word which cannot be formed using the letters of the given word:

Question 36

Correspondence

A Correspond

B Condense

C Respondent

D Respond

Answer: C

Explanation:

Since 't' is not present in the word Correspondence, we cannot form Respondent from Correspondence.

Hence, the correct answer is Option C

Question 37

Calculate

A Cat

B Team

C Tea

D Late

Answer: B

Explanation:

Since 'm' is not present in the word Calculate, we cannot Team from Calculate.

Hence, the correct answer is Option B

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Instructions

For the following questions answer them individually

Question 38

If 'Stress' is coded as Rstress. Then 'Pulse' will be coded as-

A Fulse

B Rulse

C Qulse

D Oulse

Answer: D

Explanation:

Given, Stress is coded as Rstress

The first letter of the word is changed to before letter in the alphabetical order and the remaining letters remain unchanged.

Similarly, Pulse will be coded as Oulse

Hence, the correct answer is Option D

Question 39

If ARMS equal 1234 then MARS will equal to:

A 4213

B 4321

C 1243

D 3124

Answer: D

Explanation:

Given, ARMS equal 1234

A = 1

R = 2

M = 3

S = 4

∴ MARS will be equal to 3124

Hence, the correct answer is Option D

Question 40

If Sita walks 10 km towards West, then turned towards South and walked 10 km, then turned East walked 10 km, and turned North walked 10 km. How far she is from starting point?

A 0 km

B 40 km

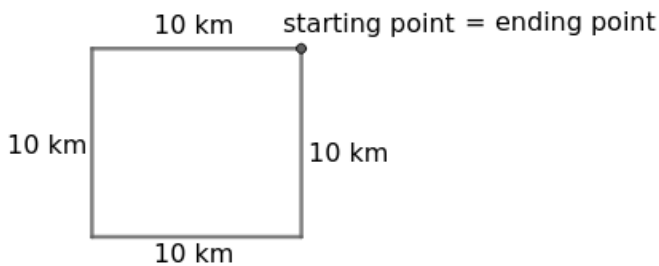
C 20 Km

D 10 Km

Answer: A

Explanation:

The given directions is represented in figure as shown below



Starting point and Ending point of Sita are same after the walk.

∴ Distance of Sita from starting point = 0 km

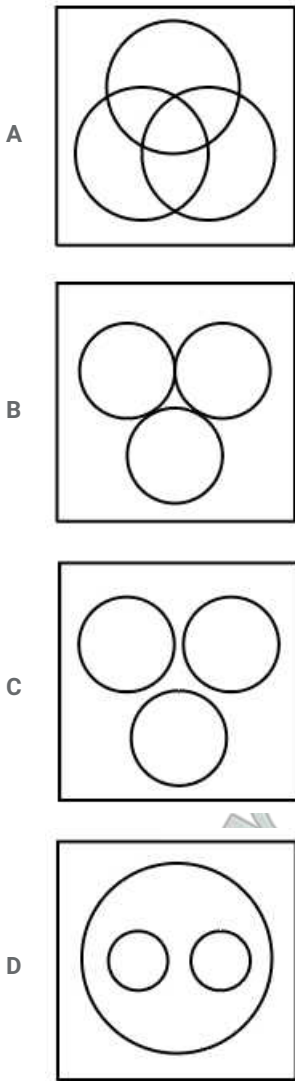
Hence, the correct answer is Option A

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Question 41

Identify the diagram that best represents the relationship among classes given below:

Social Science, History and Geography

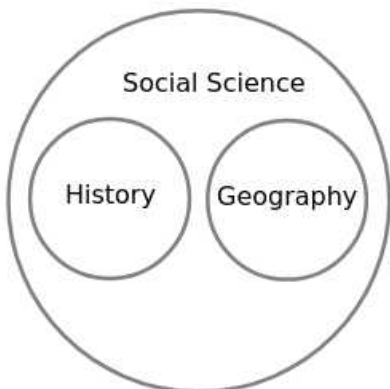


Answer: D

Explanation:

History and Geography are two different subjects which come under Social Science.

∴ The diagram that best represents the relationship between them is



Hence, the correct answer is Option D

Question 42

A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix-I are numbered from 0 to 4 and that of Matrix-2 are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., 'M' can be represented by 01, 10 etc., and 'R' can be represented by 58,85 etc. Similarly, you have to identify the set for the word 'NOW'

Matrix-I

	0	1	2	3	4
0	I	M	W	S	Q
1	M	W	S	Q	I
2	W	S	Q	I	M
3	S	Q	I	M	W
4	Q	I	M	W	A

Matrix-II

	5	6	7	8	9
5	O	A	D	R	N
6	A	D	R	N	O
7	D	R	N	O	A
8	R	N	O	A	D
9	N	O	A	D	R

A 86, 58, 11

B 55, 78, 11

C 95, 55, 34

D 95, 67, 02

Answer: C

Explanation:

From the given matrices,

N can be represented as 59, 68, 77, 86, 95

O can be represented as 55, 69, 78, 87, 96

W can be represented as 02, 11, 20, 34, 43

From the given options, NOW can be represented as 95, 55, 34

Hence, the correct answer is Option C

Question 43

Arrange the following words as per order in the dictionary

1. Silt 2. Silicon 3. Silicate 4. Silken

A 2143

B 4132

C 3241

D 1432

Answer: C

Explanation:

First 3 letters of all the words are same so verifying the fourth letter.

The fourth letter of Silken and Silt are 'k' and 't' which come after 'i' in alphabetical order. So Silken is placed third and Silt is placed fourth in the order.

Among Silicon and Silicate, the sixth letter of Silicate comes first in alphabetical order. So Silicate comes first and Silicon comes second in order.

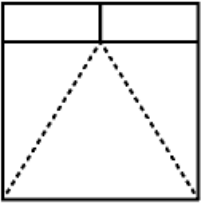
∴ The order of words according to dictionary is Silicate, Silicon, Silken, Silt

Hence, the correct answer is Option C

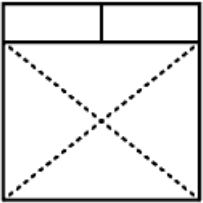
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Question 44

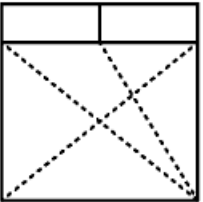
From the given answer figures, select the one in which the question figure is hidden/embedded.



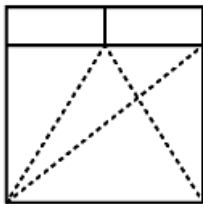
A



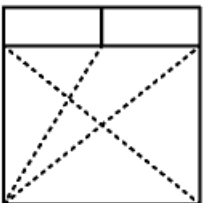
B



C



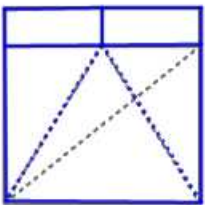
D



Answer: C

Explanation:

We can clearly see that the given is embedded in the third figure as shown below



Hence, the correct answer is Option C

Question 45

If + stands for division; × stands for addition; – stands for multiplication, ÷ stands for subtraction, Which of the following is correct?

a : $25 \times 3 - 7 \div 8 + 12 = 18$

b : $25 + 3 \times 7 - 8 \div 12 = 10.89$

c : $25 - 3 \div 7 \times 8 + 12 = 132$

d : $25 \div 3 \times 7 - 8 + 12 = 26.7$

A c

B b

C d

D a

Answer: C

Explanation:

According to the problem,

a

$$25 + 3 \times 7 - 8 \div 12 = 18$$

$$25 + 3 \times 7 - \frac{2}{3} = 18$$

After solving the value will be decimal which is not possible.

b

$$25 \div 3 + 7 \times 8 - 12 = 10.89$$

$$8.33 + 7 \times 8 - 12 = 10.89$$

$$8.33 + 56 - 12 = 10.89$$

$$52.33 = 10.89$$

So b is wrong

c

$$25 \times 3 - 7 + 8 \div 12 = 132$$

$$25 \times 3 - 7 + \frac{2}{3} = 132$$

After solving the value will be decimal which is not possible.

d

$$25 - 3 + 7 \times 8 \div 12 = 26.7$$

$$25 - 3 + 7 \times 0.67 = 26.7$$

$$25 - 3 + 4.7 = 26.7$$

$$26.7 = 26.7$$

Hence, the correct answer is Option C

Question 46

In the question two statements are given each followed by two conclusions, I and II. You have to consider the statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.

Statement:

Some clerks are poor;

2. A is poor.

Conclusion:

I. A is clerk

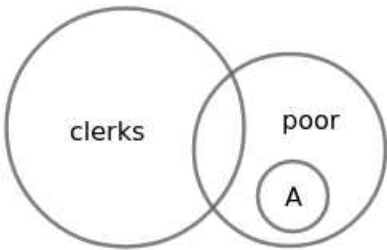
II. A has a large family.

- A Both conclusion I and II
- B Only Conclusion I follow
- C Only Conclusion II follow
- D Neither conclusion I nor conclusion II

Answer: D

Explanation:

The basic diagram for the given statements is



I. A is clerk

From the basic diagram, A is not clerk. Hence conclusion I do not follow.

II. A has a large family

There is no particular information about A's family, so we cannot that his family is large. Hence conclusion II do not follow.

∴ Neither Conclusion I nor Conclusion II follows the given statements

Hence, the correct answer is Option D

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Question 47

Which one of the given responses would be a meaningful order of the following in ascending order?

1: Atom

2: Matter

3: Molecule

4: electron

- A 3142
- B 4132
- C 1234
- D 3412

Answer: B

Explanation:

Matter is made up of molecules

Molecules are made up of atoms

Atoms are made up of electrons

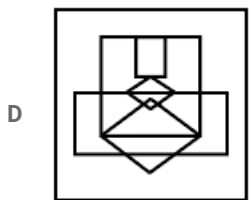
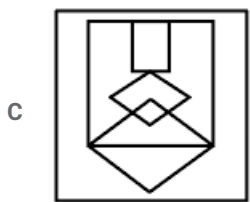
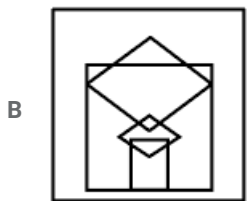
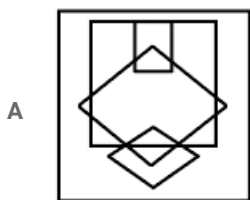
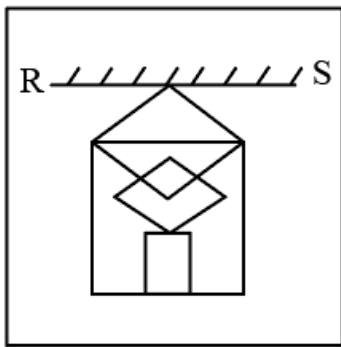
Matter is largest and electron is the smallest among the given entities.

∴ The meaningful order from smallest to largest is 4132

Hence, the correct answer is Option B

Question 48

If a mirror is placed on the line RS, then which of the answer figure is the right image of the given figure?



Answer: C

Explanation:

When a mirror is placed on the line RS,

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

∴ The mirror image of the given figure is



Hence, the correct answer is Option C

Question 49

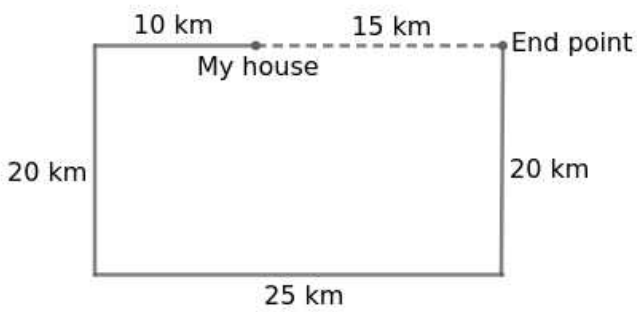
Laxmi went 10 km to the West from my house, then turned left walked 20 kms. She then turned East and walked 25 kms & finally turning left covered 20 kms. How far was she from my house?

- A 5kms
- B 10 kms
- C 40 kms
- D 15 kms

Answer: D

Explanation:

The given directions is represented in the figure below



∴ Finally the distance of laxmi from the house = 15 km

Hence, the correct answer is Option D

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Question 50

Insert the arithmetical operations in the following numerical figure-

$4_3_4 = 48$

- A ++
- B ×+
- C +−
- D ××

Answer: D

Explanation:

By Trial and Error method,

Option A

$4 + 3 + 4 = 11$

Option B

$$4 \times 3 + 4 = 12 + 4 = 16$$

Option C

$$4 + 3 - 4 = 3$$

Option D

$$4 \times 3 \times 4 = 48$$

Hence, the correct answer is Option D

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English

Instructions

In the following passage some of the words have been left out. Read the passage carefully and choose the correct answer to each question out of the four alternatives and fill in the blanks.

Question 51

Past (i) us in understanding our present world in a (ii) better way. If we know (iii) our ancestors lived or (iv) the wars were waged, we can understand the today's world (v) and get ideas for a (vi) future, what appears to (vii) as wrong today could have been right (viii). It is also interesting to know how (ix) in the past (x) the life of humans.

- A (i)-help
- B (i)-helps
- C (i)-helped
- D (i)-is helping

Answer: B

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Question 52

- A (ii)-more
- B (ii)-just
- C (ii)- much
- D (ii)-most

Answer: C

Question 53

- A (iii)-how
- B (iii)-where
- C (iii)-why
- D (iii)-when

Answer: A

Question 54

- A (iv)-which
- B (iv)-when
- C (iv)-why
- D (iv)-how

Answer: C

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Question 55

- A (v)-well
- B (v)-best
- C (v)-betterment
- D (v)-better

Answer: D

Question 56

- A (vi)-fairest
- B (vi)-fairy
- C (vi)-fair
- D (vi)-fairer

Answer: D

Question 57

- A (vii)-they
- B (viii)-later
- C (viii)-early
- D (viii)-earlier

Answer: B

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Question 58

- A (x)-improves
- B (x)-improve

- C (x)-improved
- D (x)-improvement

Answer: D

Question 59

- A (ix)-inventions
- B (ix)-inventors
- C (ix)-adventures
- D (ix)-inventing

Answer: A

Question 60

- A (x)-improves
- B (x)-improve
- C (x)-improved
- D (x)-improvement

Answer: C

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Instructions

Select parts of the sentences have errors and some are correct. Find out which part of a sentence has an error and blacked the circle corresponding to the appropriate option. If a sentence is free from error, blacken the circle corresponding to "No Error" option in the Answer Sheet.

Question 61

When the workers threatened to go on a strike, the mill owner declared a lay off on his mill.

- A No error
- B declared a lay off on is mill
- C go on a strike, the mill owner
- D threatened to

Answer: B

Question 62

The people gathered at the funeral to pay respect.

- A The people gathered
- B to pay respect
- C at the funeral

D No error

Answer: B

Question 63

Iodine deficiency is an easy and inexpensive nutrient disorder to prevent.

A No error

B nutrient disorder to prevent

C is an easy and inexpensive

D Iodine deficiency

Answer: B

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Question 64

Whoever assumes his statement true is foolish.

A is foolish

B No error

C his statement true

D Whoever assumes

Answer: C

Instructions

Out of the four alternatives, choose the one which best expresses the meaning of the given word and mark it in the Answer Sheet.

Question 65

Desultory

A Diminish

B Forsake

C Frugal

D Random

Answer: D

Question 66

Jealous

A Greedy

B Lustful

C Envious

D Proud

Answer: C

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Question 67

Quest

- A Search
- B Decision
- C Test
- D Trial

Answer: A

Question 68

Diligent

- A Energetic
- B Modest
- C Intelligent
- D Industrious

Answer: D

Instructions

Sentences are given with blanks to be filled in with an appropriate word(s). Four alternatives are suggested for each questions. Choose the correct alternative out the four and indicate it by blackening the appropriate circle in the Answer Sheet.

Question 69

The cold breath of autumn had __ the ivy leaves from the vine and the branches remained almost bare.

- A stricken
- B strucked
- C strike
- D striking

Answer: A

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Question 70

You take a decision. The ball is in ____ now.

- A your net
- B your court

C your pocket

D your garden

Answer: B

Question 71

We can ____ right and wrong.

A distinguished for

B distinguish between

C distinguish from

D distinguish by

Answer: B

Question 72

He is a man ____ simplicity.

A child

B childish.

C childlike

D Childless

Answer: C

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Instructions

Choose the word opposite in meaning to the given word and mark it in the Answer Sheet.

Question 73

Defile

A purify

B yield

C describe

D repair

Answer: A

Question 74

Desist

A hope

B assign

C continue

D request

Answer: C

Question 75

Sterile

A fertile

B infertile

C barren

D dense

Answer: A

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Question 76

Prudent

A miserly

B foolish

C careless

D strange

Answer: B

Instructions

Out of the four alternatives, Choose the one which can be substituted for the given words/sentences and indicate it by blackening the appropriate circle in the Answer Sheet.

Question 77

Introductory part or lines to a discourse or play

A Monologue

B Epilogue

C Blurb

D Prologue

Answer: D

Question 78

A handsome man

A Tycoon

B Adonis

C Debonair

- D Cavalier
Answer: B

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Question 79

International damage to arrest production

- A Modus Operandi
B Nemesis
C Sangfroid
D Sabotage

Answer: D

Question 80

A cinema show held in the afternoon.

- A Entertainment
B Play
C Matinee
D Premiere

Answer: C

Instructions

Four alternatives are given for the Idiom/Phrase underlined. Choose the alternative which best expresses the meaning of the Idiom/Phrase and mark it in the Answer-Sheet.

Question 81

To take after

- A To take after
B to write down
C to resemble
D to cheat

Answer: D

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Question 82

The jury is out

- A No decision has been reached
B The jury has taken a break between hearings

C The entire jury decides to stay out of the

D A jury member is absent.

Answer: A

Question 83

Have a finger in every pie

A to be efficient

B to be greedy

C to be meddlesome

D to be quarrelsome

Answer: C

Question 84

She paid a flying visit to Mumbai to see her ailing father.

A a surprise visit

B a very long visit

C a very short visit

D went by aeroplane

Answer: C

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Instructions

The 1st and the last part of the sentence/passage are numbered 1 and 6. The rest of the sentence/passage is split into four parts and names P, Q, R, S. These four parts are not given in their proper order. Read the sentence/Passage and find out which of the four combinations is correct. Then find the correct answer and indicate it by blackening the appropriate circle in the Answer Sheet.

Question 85

Glorious tributes were paid

P. who, after fighting a battle with cancer,

Q. the original superstar of Bollywood

R. passed away last month

S. to the legendary Rajesh Khanna.

6. At his residence in Mumbai.

A SRPQ

B SQPR

C QSPR

D SQRP

Answer: D

Question 86

Though the government

P. the growth of population

Q. has undertaken a series of plans

R. and for raising the standard of living of the people

S. for economic development

6. Has upset all the plants

A SRQP

B QSRP

C SPQR

D QPRS

Answer: B

Question 87

What given some persons

P. torturing physical pain

Q. after experiencing

R. after the loss of a precious loved one

S. the power to fight on

6.day after day?

A PQRS

B PSQR

C PQSR

D SRQP

Answer: D

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Question 88

A volcano is an opening or rupture in a planet's surface.

P. Erupting volcanoes can pose many hazards.

Q. This opening allows magma ash and gases to escape from below the surface.

R. Volcanic ash can be a threat to aircraft.

S. Volcanoes are generally found where tectonic plates are diverging or converging.

6. Historically, so-called volcanic winters have caused catastrophic famines.

A SQRP

B QSPR

C SPQR

D RSPQ

Answer: B

Instructions

Four words are given in each question, out of which only one word is correctly spelt. Find the correctly spelt word and mark your answer

in the Answer-Sheet.

Question 89

- A Ingenous
- B Ingenious
- C Ingenius
- D Ingeneous

Answer: B

Question 90

- A Pleagiarist
- B Plagiarist
- C Plagraist
- D Plagearist

Answer: B

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Question 91

- A Acomodation
- B Accommodation
- C Accomodation
- D Acommodation

Answer: B

Question 92

- A Purritaniccal
- B Puritannical
- C Puritanical
- D Purritanical

Answer: C

Instructions

A sentence/ a part of the sentence is underlined. Below are given alternatives to the underlined part which may improve the sentence. Choose the correct alternative. In case no improvement is needed choose "No Improvement".

Question 93

I'm really sorry but I haven't got much money myself

- A I'm really sorry but I not have much money myself
- B I'm really sorry but I have very money myself.
- C I'm really sorry I have lesser money myself.
- D No improvement

Answer: D

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Question 94

Both of them are good, but this is the best of the two.

- A good
- B No improvement
- C better
- D much better

Answer: C

Question 95

He said, 'Let the show begins'

- A No Improvement
- B 'Let the show begin'
- C 'Let the shows begin'
- D 'Let the show to begin'

Answer: B

Question 96

The museum's collection includes artefacts date back to prehistoric times.

- A date backs to
- B No improvement
- C dating back to
- D date back to

Answer: C

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Instructions

A sentence has been given in direct/ Indirect. Out of the four alternatives suggested select the one which best expresses the same sentence in Indirect/Direct and mark your answer in the Answer-Sheet.

Question 97

My brother told me that he would buy me a notepad the next day.

- A My brother said to me, "I would buy you notepad tomorrow."
- B My brother " I am going to buy you a notepad tomorrow."
- C My brother said to me, "I will be buying you a notepad tomorrow."
- D My brother said to me. "I shall buy you a notepad tomorrow."

Answer: D

Question 98

The peon said to his officer. "Please forgive me".

- A The peon requested his officer to forgive him.
- B The peon told his officer please forgive him
- C The peon requested his officer that her forgive him
- D The peon said to his officer that he should forgive him

Answer: A

Instructions

A sentence has been given in Active/Passive Voice. Out of the four alternatives suggested, select the one which best expresses the same sentence in Passive/Active Voice and mark your answer in the Answer-Sheet.

Question 99

Take the medicine.

- A Let the medicine be taken
- B The medicine must take you,
- C The medicine is to be taken by you
- D You are requested to take the medicine.

Answer: C

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Question 100

I cannot trust him any more.

- A He may not be trusted by me any more
- B He cannot be trusted by me any more
- C He cannot trust by me any more
- D He could not be trusted by me any more

Answer: B

Quant

Instructions

For the following questions answer them individually

Question 101

If $p^3 - q^3 = (p - q) \{(p - q)^2 - xpq\}$, then find the value of x is

- A -1
- B -3
- C 1
- D 3

Answer: B

Explanation:

Given, $p^3 - q^3 = (p - q) \{(p - q)^2 - xpq\}$

$$p^3 - q^3 = (p - q) (p^2 + q^2 - 2pq - xpq)$$

$$p^3 - q^3 = (p - q) (p^2 + q^2 + (-2 - x)pq) \dots\dots\dots(1)$$

We know that

$$p^3 - q^3 = (p - q) (p^2 + q^2 + pq) \dots\dots\dots(2)$$

Comparing both the equations we get

$$-2 - x = 1$$

$$\Rightarrow x = -3$$

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Question 102

Simon purchased a bicycle for ₹ 6810 He had paid a VAT of 13.5%. The list price of the bicycle was:

- A ₹ 6140
- B ₹ 6696.50
- C ₹ 6000
- D ₹ 5970.50

Answer: C

Question 103

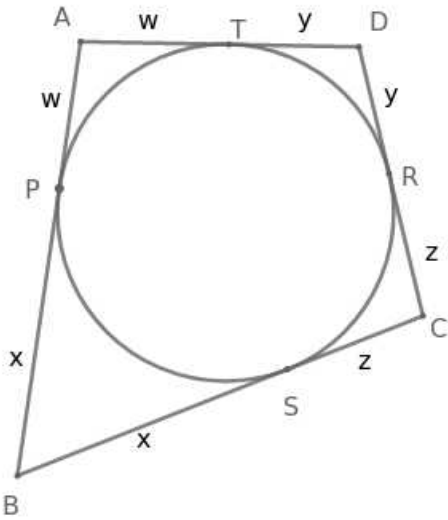
A circle touches the four sides of a quadrilateral ABCD. The value of $\frac{AB+CD}{CB+DA}$ is equal to:

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

D $\frac{1}{4}$

Answer: A

Explanation:



Circle touches the four sides of quadrilateral ABCD as shown in the figure

AT and AP are tangents to the circle from point A

$\Rightarrow AT = AP$

Let $AT = AP = w$

BP and BS are tangents to the circle from point B

$\Rightarrow BP = BS$

Let $BP = BS = x$

CS and CR are tangents to the circle from point C

$\Rightarrow CS = CR$

Let $CS = CR = z$

DR and DT are tangents to the circle from point D

$\Rightarrow DR = DT$

Let $DR = DT = y$

$$\therefore \frac{AB+CD}{CB+DA} = \frac{w+x+z+y}{z+x+y+w} = 1$$

Hence, the correct answer is Option A

Question 104

The radius of a hemispherical bowl is 6 cm. The capacity of the bowl is (Take $\pi = \frac{22}{7}$)

A 345.53 cm^3

B 452.57 cm^3

C 495.51 cm^3

D 452 cm^2

Answer: B

Explanation:

Given,

Radius of the hemispherical bowl = 6 cm

$$\therefore \text{Capacity of the bowl} = \frac{2}{3} \pi r^3 = \frac{2}{3} \times \frac{22}{7} \times 6^3 \\ = 452.57 \text{ cm}^3$$

Hence, the correct answer is Option B

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Question 105

In a business A and C invested amounts in the ratio 2:1, whereas A and B invested amounts in the ratio 3 : 2. If their annual profit be ₹ 157300, then B's share in the profit is:

A ₹ 24200

B ₹ 48400

C ₹ 48000

D ₹ 36300

Answer: B

Explanation:

Given,

Investment ratio of A and C is A : C = 2 : 1

$$\Rightarrow A : C = 6 : 3$$

Investment ratio of A and B is A : B = 3 : 2

$$\Rightarrow A : B = 6 : 4$$

Investment ratio of A, B and C is A : B : C = 6 : 4 : 3

\therefore Profit ratio of A : B : C = 6 : 4 : 3

Annual profit = ₹ 157300

$$\text{Share of B in the profit} = \frac{4}{6+4+3} \times 157300 = \frac{4}{13} \times 157300 = ₹ 48400$$

Hence, the correct answer is Option B

Question 106

TF is a tower with F on the ground. The angle of elevation of T from A is x° such that $\tan x^\circ = \frac{2}{5}$ and AF = 200 m. The angle of elevation of T from a nearer point B is y° with BF = 80 m. The value y° is;

A 30°

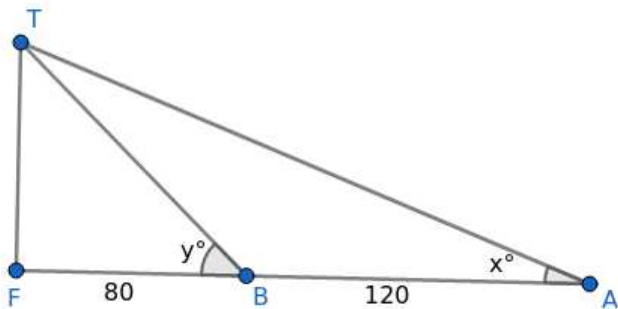
B 60°

C 45°

D 75°

Answer: C

Explanation:



From the figure,

In $\triangle AFT$,

$$\tan x^\circ = \frac{2}{5}$$

$$\Rightarrow \frac{TF}{AF} = \frac{2}{5}$$

$$\Rightarrow \frac{TF}{200} = \frac{2}{5}$$

$$\Rightarrow TF = 80 \text{ m}$$

In $\triangle BFT$,

$$\Rightarrow \tan y^\circ = \frac{TF}{BF}$$

$$\Rightarrow \tan y^\circ = \frac{80}{80}$$

$$\Rightarrow \tan y^\circ = 1$$

$$\Rightarrow \tan y^\circ = \tan 45^\circ$$

$$\Rightarrow y^\circ = 45^\circ$$

Hence, the correct answer is Option C

Question 107

A student goes to school at the rate of $\frac{5}{2}$ km/hr and reaches 6 minutes late. If he travels at the speed of 3 km/hr he is 10 minutes early. What is the distance to the school?

A $\frac{13}{4}$ km

B 4 km

C $\frac{7}{2}$ km

D 1 km

Answer: B

Explanation:

Let the distance to the school = d

Time taken by him when he goes to school at a speed of $\frac{5}{2}$ km/h = $\frac{2d}{5}$

Time taken by him when he goes to school at a speed of 3km/h = $\frac{d}{3}$

According to the problem,

$$\frac{2d}{5} - \frac{d}{3} = \frac{16}{60} \text{ hours}$$

$$\Rightarrow \frac{6d-5d}{15} = \frac{16}{60}$$

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

$$\Rightarrow d = 4 \text{ km}$$

∴ The distance to the school = 4 km

Hence, the correct answer is Option B

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Question 108

The sum of the perfect square between 120 and 300 is:

- A 1400
- B 1024
- C 1296
- D 1204

Answer: A

Explanation:

Sum of the squares of n consecutive numbers =

The sum of the perfect square between 120 and 300 = $11^2 + 12^2 + 13^2 + 14^2 + 15^2 + 16^2 + 17^2$

$$= \frac{17(17+1)(2(17+1))}{6} - \frac{10(10+1)(2(10+1))}{6}$$

$$= \frac{17(18)(35)}{6} - \frac{10(11)(21)}{6}$$

$$= 51 \times 35 - 11 \times 35$$

$$= 35(51 - 11)$$

$$= 35(40)$$

$$= 1400$$

Hence, the correct answer is Option A

Question 109

If A, B, C are the angles of a $\triangle ABC$ then the following is equal to; $\sin\left(\frac{B+C}{2}\right)$

A $\sec \frac{B}{2}$

B $\sec \frac{A}{2}$

C $\cos \frac{A}{2}$

D $\operatorname{cosec} \frac{A}{2}$

Answer: C

Explanation:

$$\sin\left(\frac{B+C}{2}\right) = \sin\left(\frac{180-A}{2}\right) \text{ since } A + B + C = 180^\circ$$

$$= \sin\left(90 - \frac{A}{2}\right)$$

$$= \cos \frac{A}{2}$$

Hence, the correct answer is Option C

Instructions

The following tables shows the world production of steel in 1920-1927. Study the table and answer the question.

Year	1920	1921	1922	1923	1924	1925	1926	1927
Production (in million Tons)	71.3	43.15	67.66	76.23	77.23	88.93	91.75	100.17

Question 110

The production of steel in the year 1924 and 1925 to that of 1923 and 1927 is:

- A 2005 : 2077
- B 2205 : 2007
- C 2077 : 2205
- D 2205 : 2077

Answer: C

Explanation:

From the table,

Production steel in the year 1924 and 1925 = $77.23+88.93 = 166.16$

Production steel in the year 1923 and 1927 = $76.23+100.17 = 176.40$

\therefore Required ratio = $166.16 : 176.40 = 16616 : 17640 = 2077 : 2205$

Hence, the correct answer is Option C

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Question 111

The average production of steel is:

- A 76.09
- B 77.10
- C 75.13
- D 74.07

Answer: B

Explanation:

From the table,

Average production of the steel = $\frac{71.3+43.51+67.66+76.23+77.23+88.93+91.75+100.17}{8} = \frac{616.78}{8} = 77.10$

Hence, the correct answer is Option B

Question 112

The difference of the production of steel in the year 1923 and 1924 is x% of 1927. Then the value of x is approximately:

- A 0.001
- B 1
- C 0.1
- D 0.01

Answer: B

Explanation:

From the table,

The difference of the production of steel in the year 1923 and 1924 = $77.23 - 76.23 = 1$

The production of steel in the year 1927 = 100.17

According to the Problem,

$x\%$ of 100.17 = 1

$$\Rightarrow \frac{x}{100} \times 100.17 = 1$$

$$\Rightarrow x = 1$$

Hence, the correct answer is Option B

Question 113

The number of years during which the company has its production less than the average production during 1920-1927 is approximately:

A 6

B 2

C 3

D 4

Answer: D

Explanation:

$$\text{Average production of the steel} = \frac{71.3 + 43.51 + 67.66 + 76.23 + 77.23 + 88.93 + 91.75 + 100.17}{8} = \frac{616.78}{8} = 77.10$$

\therefore In 1920, 1921, 1922, 1923 the company has its production less than the average production

Hence, the correct answer is Option D

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Instructions

For the following questions answer them individually

Question 114

If $\sin Q + \cos Q = \sqrt{2} \sin(90^\circ - Q)$ then $\cot Q$ is equal to:

A $\sqrt{2} - 1$

B $\sqrt{2}$

C $\sqrt{2} + 1$

D 0

Answer: C

Explanation:

$$\text{Given, } \sin Q + \cos Q = \sqrt{2} \sin(90^\circ - Q)$$

$$\Rightarrow \sin Q + \cos Q = \sqrt{2} \cos Q$$

$$\Rightarrow \sin Q = \sqrt{2} \cos Q - \cos Q$$

$$\Rightarrow \sin Q = (\sqrt{2} - 1) \cos Q$$

$$\Rightarrow \frac{\cos Q}{\sin Q} = \frac{1}{\sqrt{2}-1}$$

$$\Rightarrow \cot Q = \frac{1}{\sqrt{2}-1} \times \frac{\sqrt{2}+1}{\sqrt{2}+1}$$

$$\Rightarrow \cot Q = \frac{\sqrt{2}+1}{2-1}$$

$$\Rightarrow \cot Q = \sqrt{2} + 1$$

Hence, the correct answer is Option C

Question 115

A and B can do a piece of work in 15 days. B and C can do the same work in 10 days and A and C can do the same in 12 days. Time taken by A, B and C together to do the job is:

A 4 days

B 9 days

C 5 days

D 8 days

Answer: D

Explanation:

Let the total work = W

Number of days required for A and B to complete the work = 15 days

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

$$\Rightarrow A + B = \frac{W}{15} \dots\dots\dots(1)$$

Number of days required for B and C to complete the work = 10 days

$$\Rightarrow \text{Work done by B and C in 1 day} = \frac{W}{10}$$

$$\Rightarrow B + C = \frac{W}{10} \dots\dots\dots(2)$$

Number of days required for A and C to complete the work = 12 days

$$\Rightarrow \text{Work done by A and C in 1 day} = \frac{W}{12}$$

$$\Rightarrow A + C = \frac{W}{12} \dots\dots\dots(3)$$

Adding equations (1), (2) and (3)

$$2A + 2B + 2C = \frac{W}{15} + \frac{W}{10} + \frac{W}{12}$$

$$\Rightarrow 2(A + B + C) = \frac{4W + 6W + 5W}{60}$$

$$\Rightarrow 2(A + B + C) = \frac{15W}{60}$$

$$\Rightarrow 2(A + B + C) = \frac{W}{4}$$

$$\Rightarrow A + B + C = \frac{W}{8}$$

$$\text{Work done by A, B and C in 1 day} = \frac{W}{8}$$

$$\therefore \text{Number of days required for A, B and C to complete the work} = \frac{W}{\frac{W}{8}} = 8 \text{ days}$$

Hence, the correct answer is Option D

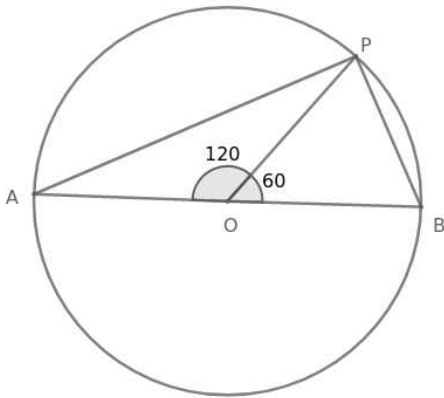
Question 116

AB is the diameter of a circle with centre O. P be a point on it. If $\angle POA = 120^\circ$. Then, $\angle PBO = ?$

- A 50°
- B 120°
- C 45°
- D 60°

Answer: D

Explanation:



Given, $\angle POA = 120^\circ$

From the figure,

$$\angle POA + \angle POB = 180^\circ$$

$$\Rightarrow 120^\circ + \angle POB = 180^\circ$$

$$\Rightarrow \angle POB = 60^\circ$$

OP and OB are radius of the circle

$$\Rightarrow OP = OB$$

In $\triangle OPB$, angles opposite to OP and OB are equal

$$\angle PBO = \angle BPO$$

$$\angle POB + \angle PBO + \angle BPO = 180^\circ$$

$$\Rightarrow 60^\circ + \angle PBO + \angle PBO = 180^\circ$$

$$\Rightarrow 2\angle PBO = 120^\circ$$

$$\Rightarrow \angle PBO = 60^\circ$$

Hence, the correct answer is Option D

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Question 117

The mean high temperature of the first four days of a week is $25^\circ c$ whereas the mean of the last four days is $25.5^\circ c$ then the temperature of the 4th day is:

- A $25^\circ c$
- B $25.2^\circ c$
- C $25.6^\circ c$

D $25.5^{\circ}c$

Answer: C

Explanation:

A week has 7 days.

given that mean temperature of first 4 days is 25

i.e; sum of the total temperatures of first 4 days /4=25

i.e; sum of total temperatures of first 4 days=4*25=100

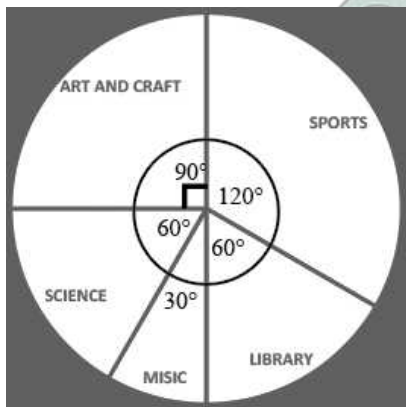
Also given that mean temperature of last 4 days=25.5

i.e; sum of total temperatures of last four days=25.4*4=102

i.e;

Instructions

The pie chart shows how the school funds is spent under different heads in a certain school. Using the pie chart answer and questions.



Question 118

Which head uses 25% of the funds?

- A Sports
- B Art and Craft
- C Library
- D Misc

Answer: B

Explanation:

From the pie chart,

$$\text{Percentage of School fund spent on Sports} = \frac{120^{\circ}}{360^{\circ}} \times 100 = 33.33\%$$

$$\text{Percentage of School fund spent on Art and Craft} = \frac{90^{\circ}}{360^{\circ}} \times 100 = 25\%$$

$$\text{Percentage of School fund spent on Library} = \frac{60^{\circ}}{360^{\circ}} \times 100 = 16.67\%$$

$$\text{Percentage of School fund spent on Misc} = \frac{30^{\circ}}{360^{\circ}} \times 100 = 8.34\%$$

\therefore Art and Craft uses 25% of the school funds

Hence, the correct answer is Option B

Question 119

Which head has the maximum expenditure?

- A Art & Craft
- B Library
- C Sports
- D Science

Answer: C

Explanation:

Degrees of Sports in the pie chart is 120° , which is greater than other heads of the school.

\therefore Sports head has the maximum expenditure

Hence, the correct answer is Option C

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Question 120

What percentage of the total expense spent on library?

- A 24
- B 20
- C 16.6
- D 24.3

Answer: C

Explanation:

From the pie chart,

$$\text{Total expense spent on the library} = \frac{60^\circ}{360^\circ} \times 100 = 16.67\%$$

Hence, the correct answer is Option C

Question 121

What is the ratio of expenditure on sports to that on art and craft?

- A 1 : 4
- B 4 : 3
- C 2 : 1
- D 1 : 1

Answer: B

Explanation:

From the pie chart,

$$\text{The ratio of expenditure on sports to that on art and craft} = 120^\circ : 90^\circ = 4 : 3$$

Hence, the correct answer is Option B

Question 122

Which heads have the same amount of expenditure?

- A Science and Misc
- B Misc and Library
- C Sports and Science
- D Library and Science

Answer: D

Explanation:

From the pie chart,

Both Library and Science have 60°

\Rightarrow The amount of expenditure for Library and Science will be same

Hence, the correct answer is Option D

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Instructions

For the following questions answer them individually

Question 123

Each side of a cube is decreased by 25%. Find the ratio of the volumes of the original cube and the resulting cube.

- A 8 : 1
- B 64 : 27
- C 64 : 1
- D 27 : 64

Answer: B

Explanation:

Let the side of the original cube = a

Volume of the original cube = a^3

The side of the resulting cube when decreased by 25% = $\frac{75}{100} \times a = \frac{3}{4}a$

Volume of the resulting cube = $\left(\frac{3}{4}a\right)^3 = \frac{27}{64}a^3$

\therefore Ratio of the volumes of the original cube and the resulting cube = $a^3 : \frac{27}{64}a^3 = 1 : \frac{27}{64} = 64 : 27$

Hence, the correct answer is Option B

Question 124

For real a, b, c if $a^2 + b^2 + c^2 = ab + bc + ca$, the value of $\frac{(a+b)}{c}$

- A 3
- B 1
- C 2
- D 0

Answer: C

Explanation:

Given, $a^2 + b^2 + c^2 = ab + bc + ca$

Multiplying both sides by "2", it becomes

$$2(a^2 + b^2 + c^2) = 2(ab + bc + ca)$$

$$2a^2 + 2b^2 + 2c^2 = 2ab + 2bc + 2ca$$

$$a^2 + a^2 + b^2 + b^2 + c^2 + c^2 - 2ab - 2bc - 2ca = 0$$

$$(a^2 + b^2 - 2ab) + (b^2 + c^2 - 2ca) + (c^2 + a^2 - 2ca) = 0$$

$$(a - b)^2 + (b - c)^2 + (c - a)^2 = 0$$

Sum of squares is zero so each term should be zero

$$\Rightarrow (a - b)^2 = 0, (b - c)^2 = 0, (c - a)^2 = 0$$

$$\Rightarrow a - b = 0, \quad b - c = 0, \quad c - a = 0,$$

$$\Rightarrow a = b, \quad b = c, \quad c = a$$

$$\Rightarrow a = b = c$$

Therefore $\frac{a+b}{c} = \frac{a+a}{a} = \frac{2a}{a} = 2$

Question 125

The value of the following is:

$$(\tan 20^\circ)^2 + (\cot 20^\circ)^2 + (\operatorname{cosec} 70^\circ)^2 + (\sec 70^\circ)^2 + 2 \tan 15^\circ \cdot \tan 45^\circ \cdot \tan 75^\circ$$

A 4

B 2

C 1

D 3

Answer: D

Explanation:

$$(\tan 20^\circ)^2 + (\cot 20^\circ)^2 + (\operatorname{cosec} 70^\circ)^2 + (\sec 70^\circ)^2 + 2 \tan 15^\circ \cdot \tan 45^\circ \cdot \tan 75^\circ$$

$$= \frac{\tan^2(90-70)^\circ}{\operatorname{cosec}^2 70^\circ} + \frac{\cot^2(90-70)^\circ}{\sec^2 70^\circ} + 2 \tan 15^\circ \cdot \tan 45^\circ \cdot \tan (90 - 15)^\circ$$

$$= \frac{\cot^2 70^\circ}{\operatorname{cosec}^2 70^\circ} + \frac{\tan^2 70^\circ}{\sec^2 70^\circ} + 2 \tan 15^\circ \cdot \tan 45^\circ \cdot \cot 15^\circ$$

$$= \frac{\operatorname{cosec}^2 70^\circ - 1}{\operatorname{cosec}^2 70^\circ} + \frac{\sec^2 70^\circ - 1}{\sec^2 70^\circ} + 2 \tan 45^\circ$$

$$= 1 - \frac{1}{\operatorname{cosec}^2 70^\circ} + 1 - \frac{1}{\sec^2 70^\circ} + 2(1)$$

$$= 4 - (\sin^2 70^\circ + \cos^2 70^\circ)$$

$$= 4 - 1$$

$$= 3$$

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Question 126

There is 10% loss if an article is sold at Rs. 270. Then the cost price of the article is:

A Rs. 320

B Rs. 270

C Rs. 300

D Rs. 250

Answer: C

Explanation:

Given, Selling Price (S.P) = Rs. 270

Let the Cost Price = C.P

Loss % = 10%

$$\Rightarrow 10 = \frac{C.P - 270}{C.P} \times 100$$

$$\Rightarrow C.P = 10C.P - 2700$$

$$\Rightarrow 9C.P = 2700$$

$$\Rightarrow C.P = 300$$

∴ Cost Price of the article = Rs. 300

Hence, the correct answer is Option C

Question 127

If $x + y = 2a$, then the value of $(x^{-a}) + (y^{-a})$ is

A 2

B 0

C 1

D -1

Answer: B

Explanation:

$$x + y = 2a$$

$$x + y = a + a$$

$$x - a = a - y$$

Therefore

$$x^{-a} + y^{-a} = a^{-y} + y^{-a} = y^{-a} + y^{-a} = 0$$

Question 128

The base of a right prism is a trapezium whose length of two parallel sides are 10 cm and 6 cm and distance between them is 5cm. If the height of the prism is 8 cm, its volume is:

A 310 cm^3

B 300.5 cm^3

C 300 cm^3

D 320 cm^3

Answer: D

Explanation:

Length of the parallel sides of trapezium are

$a = 10$ cm and $b = 6$ cm

Distance between the parallel sides of trapezium $h = 8$ cm

Area of the trapezium $= \frac{1}{2} (a + b) h = \frac{1}{2} (10 + 6) 8 = 40 \text{ cm}^2$

Height of the right prism with base as trapezium = 8 cm

\therefore Volume of the right prism with base as trapezium = Area of trapezium \times height of the right prism = $40 \times 8 = 320 \text{ cm}^3$

Hence, the correct answer is Option D

SSC CGL Previous Papers (DOWNLOAD PDF)

Question 129

On what sum of money will the difference between simple interest and compound interest for 2 years at 5% per annum be equal to 63?

- A Rs. 25,200
- B Rs. 24,600
- C Rs. 25,500
- D Rs. 24,800

Answer: A

Explanation:

Let the principal amount be P

Given,

Rate of interest (R) = 5%

Time = 2 years

Difference between simple interest and compound interest for 2 years = 63

we know that difference between simple interest and compound interest for 2 years = $P \left(\frac{R}{100} \right)^2$

$$\Rightarrow P \left(\frac{R}{100} \right)^2 = 63$$

$$\Rightarrow P \left(\frac{5}{100} \right)^2 = 63$$

$$\Rightarrow P \left(\frac{1}{20} \right)^2 = 63$$

$$\Rightarrow P = 63 \times 20 \times 20$$

$$\Rightarrow P = 25200$$

\therefore Principal amount = Rs. 25,200

Hence, the correct answer is Option A

Question 130

If $\binom{x}{3} + \binom{3}{x} = 1$ then the value of x^3 is?

- A -27
- B 1
- C 27
- D 0

Answer: A

Question 131

The ratio of two numbers is 3:4 and their LCM is 120. The sum of numbers is:

- A 140
- B 35
- C 70
- D 105

Answer: C

Explanation:

Let the two numbers be $3x$ and $4x$

\Rightarrow HCF of two numbers = x

Given, LCM of two numbers = 120

We know that, Product of two numbers is equal to Product of LCM and HCF of two numbers

$$\Rightarrow 3x \times 4x = 120 \times x$$

$$\Rightarrow x = 10$$

$$\therefore \text{Sum of the numbers} = 3x + 4x = 7x = 7(10) = 70$$

Hence, the correct answer is Option C

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Question 132

A hemisphere and a cone have equal bases. If their heights are also equal, then the ratio of their curved surfaces will be:

- A 1 : 2
- B 1 : $\sqrt{2}$
- C $\sqrt{2} : 1$
- D 1

Answer: C

Explanation:

The hemisphere and the cone have equal bases

\Rightarrow Radius of the hemisphere = Radius of the cone

Let Radius of the hemisphere = Radius of the cone = r

Height of hemisphere is equal to the radius of the of the hemisphere

Given, Heights of hemisphere and cone are equal

\Rightarrow Height of the cone (h) = r

$$\therefore \text{Ratio of their curved surfaces} = 2\pi r^2 : \pi r (\sqrt{r^2 + h^2})$$

$$= 2\pi r^2 : \pi r (\sqrt{r^2 + r^2})$$

$$= 2\pi r^2 : \sqrt{2}\pi r^2$$

$$= 2 : \sqrt{2}$$

$$= \sqrt{2} \cdot \sqrt{2} : \sqrt{2}$$

$$= \sqrt{2} : 1$$

Hence, the correct answer is Option C

Question 133

A shop of electronic goods is closed on Monday. The average sales per day for remaining six days of a week is Rs.15640 and the average sale of Tuesday to Saturday is Rs.14124. The sales on Sunday is:

- A Data inadequate
- B Rs.21704
- C Rs.23220
- D Rs.20188

Answer: C

Explanation:

We know that average = sum of entries/no of entries

Therefore given average of 6 days = 15640

i.e;sum of entries/6=15640

so sum=15640*6=93840.

also given the average sales from tuesday to saturday i.e;5 days is

sum of 5 days' sales/5=14124

therefore sum of 5 day sales=5*14124=70620

sales on sunday is (sum of 6 days sale)-(sum of 5 day sale)

i.e; 93840-70620=23220.

Therefore the answer is 23220.

Question 134

$9x^2 + 25 - 30x$ can be expressed as the square of:

- A $-3x - 5$
- B $3x - 5$
- C $3x^2 - 25$
- D $3x + 5$

Answer: B

Explanation:

$$9x^2 + 25 - 30x = 9x^2 - 30x + 25$$

$$= 9x^2 - 15x - 15x + 25$$

$$= 3x(3x - 5) - 5(3x - 5)$$

$$= (3x - 5)(3x - 5)$$

$$= (3x - 5)^2$$

SSC CHSL Important Questions and Answers (Download PDF)

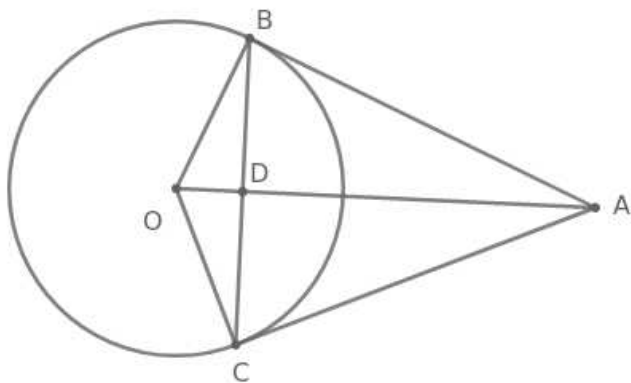
Question 135

AB and AC are tangents to a circle with centre O. A is the external point of the circle. The line AO intersect the chord BC at D. The measure of the $\angle BDO$ is:

- A 75°
- B 45°
- C 90°
- D 60°

Answer: C

Explanation:



As shown in the figure,

In $\triangle ABO$ and $\triangle ACO$

$AB = AC$, $OB = OC$ and AO is a common side

$\Rightarrow \triangle ABO$ and $\triangle ACO$ are congruent triangles

$\Rightarrow \angle BAO = \angle CAO$

$\Rightarrow AO$ bisects the chord BC

Hence AO is the perpendicular bisector of BC

$\Rightarrow \angle ADB = \angle ADC = 90^\circ$

From the figure

$\angle ADB + \angle BDO = 180^\circ$

$\Rightarrow 90^\circ + \angle BDO = 180^\circ$

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

Hence, the correct answer is Option C

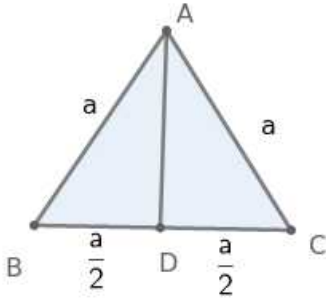
Question 136

Let ABC be an equilateral triangle and AD perpendicular to BC . Then $AB^2 + BC^2 + CA^2 = ?$

- A $3AD^2$
- B $5AD^2$
- C $4AD^2$
- D $2AD^2$

Answer: C

Explanation:



Given ABC is an equilateral triangle

Let the length of the side = a

$$\Rightarrow AB = BC = CA = a$$

AD is the perpendicular bisector to BC

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

From $\triangle ABD$,

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

$$\Rightarrow AD^2 + \left(\frac{a}{2}\right)^2 = a^2$$

$$\Rightarrow AD^2 = a^2 - \frac{a^2}{4}$$

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

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

$$\therefore AB^2 + BC^2 + CA^2 = a^2 + a^2 + a^2 = 3a^2 = 3\left(\frac{4}{3}AD^2\right) = 4AD^2$$

Hence, the correct answer is Option C

Question 137

A man buys a TV priced at Rs. 16000. He pays Rs. 4000 at once and the rest after 15 months on which he is charged a simple interest at the rate of 12% per year. The total amount he pays for the TV is:

A Rs. 17,800

B Rs. 18,200

C Rs. 17,200

D Rs. 16,800

Answer: A

Explanation:

Given, Price of the T.V = Rs. 16000

Man pays Rs. 4000 at once,

$$\Rightarrow \text{Remaining amount} = 16000 - 4000 = \text{Rs. } 12000$$

\Rightarrow The principal amount on which simple interest was charged (P) = Rs. 12000

Given rate of simple interest (R) = 12% per year = $\frac{12}{12}\%$ per month = 1% per month

Time (T) = 15 months

$$\therefore \text{Amount to be paid with simple interest} = P + \frac{PTR}{100}$$

$$= 12000 + \frac{12000 \times 15 \times 1}{100}$$

$$= 12000 + 1800$$

$$= \text{Rs. } 13800$$

$$\therefore \text{Total amount he pays for T.V} = 4000 + 13800 = \text{Rs. } 17800$$

Hence, the correct answer is Option A

SSC CHSL Study Material

Question 138

The total discount on Rs. 1860 due after a certain time at 5% is Rs. 60. find the time after which it is due:

- A 9 months
- B 10 months
- C 8 months
- D 7 months

Answer: C

Explanation:

Given,

Total discount = Rs 60

Amount = Rs 1860

Rate = 5%

Let Time = T

$$\text{Total discount} = \frac{A \times R \times T}{100 + RT}$$

$$\Rightarrow 60 = \frac{1860 \times 5 \times T}{100 + 5T}$$

$$\Rightarrow 100 + 5T = 155T$$

$$\Rightarrow 150T = 100$$

$$\Rightarrow T = \frac{2}{3} \text{ year}$$

$$\Rightarrow T = \frac{2}{3} \times 12 \text{ months} = 8 \text{ months}$$

Hence, the correct answer is Option C

Question 139

The difference between the greatest and the least four digit numbers that begins with 3 and ends with 5 is:

- A 990
- B 900
- C 909
- D 999

Answer: A

Explanation:

The greatest four digit number that begins with 3 and ends with 5 = 3995

The least four digit number that begins with 3 and ends with 5 = 3005

∴ The difference between the greatest and the least four digit numbers that begins with 3 and ends with 5 = 3995 - 3005 = 990

Question 140

What is the position of the circumcentre of an obtuse-angled triangle?

- A It lies inside the triangle.
- B It is the mid point of the largest side.
- C It lies outside the triangle
- D It is vertex opposite to the largest side.

Answer: C

Explanation:

For an obtuse-angled triangle, the circumcentre lies outside the triangle

Hence, the correct answer is Option C

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Question 141

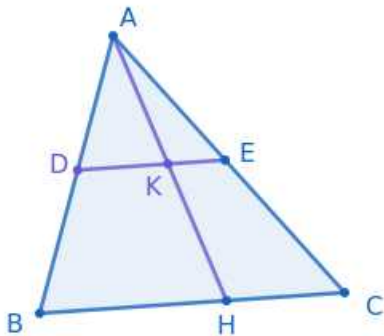
D and E are mid-points of sides AB and AC respectively of the ΔABC . A line drawn from A meets BC at H and DE at K.

AK : KH = ??

- A 1 : 3
- B 2 : 1
- C 1 : 2
- D 1 : 1

Answer: D

Explanation:



D and E are mid-points of sides AB and AC respectively of the ΔABC

\Rightarrow DE is parallel to BC

AB = 2AD and AC = 2AE

In ΔABC and ΔADE

$\angle ABC = \angle ADE$

$\angle ACB = \angle AED$

$\angle A$ is the common angle

$\Rightarrow \triangle ABC$ is similar to $\triangle ADE$

$$\Rightarrow \frac{AB}{AD} = \frac{AH}{AK} = \frac{AC}{AE}$$

$$\Rightarrow \frac{AB}{AD} = \frac{AH}{AK}$$

$$\Rightarrow \frac{2AD}{AD} = \frac{AK+KH}{AK}$$

$$\Rightarrow 2AK = AK + KH$$

$$\Rightarrow AK = KH$$

$$\Rightarrow AK : KH = 1 : 1$$

Hence, the correct answer is Option D

Question 142

If $\sqrt{33} = 5.745$, then the value of the following is approximately:

$$\sqrt{\binom{3}{11}}$$

A 6.32

B 2.035

C 1

D 0.5223

Answer: D

Explanation:

Given, $\sqrt{33} = 5.745$

$$\Rightarrow \sqrt{\binom{3}{11}} = \sqrt{\frac{3}{11 \times 11}} = \frac{\sqrt{33}}{11} = \frac{5.745}{11} = 0.5223$$

Question 143

$$\left(\frac{\sin 47^\circ}{\cos 53^\circ}\right)^2 + \left(\frac{\cos 43^\circ}{\sin 47^\circ}\right)^2 - 4 \cos^2 45^\circ$$

A $\frac{1}{2}$

B -1

C 1

D 0

Answer: D

Explanation:

$$\left(\frac{\sin 47^\circ}{\cos 53^\circ}\right)^2 + \left(\frac{\cos 43^\circ}{\sin 47^\circ}\right)^2 - 4 \cos^2 45^\circ = \left(\frac{\sin(90-53)^\circ}{\cos 53^\circ}\right)^2 + \left(\frac{\cos(90-47)^\circ}{\sin 47^\circ}\right)^2 - 4 \left(\frac{1}{\sqrt{2}}\right)^2 = \left(\frac{\cos 53^\circ}{\cos 53^\circ}\right)^2 + \left(\frac{\sin 47^\circ}{\sin 47^\circ}\right)^2 - 4 \left(\frac{1}{2}\right) = 1 + 1 - 2 = 0$$

Hence, the correct answer is Option D

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Question 144

The greatest four digit number which is exactly divisible by each one of the numbers 12, 18, 21 and 28.

A 9828

B 9928

C 9882

D 9288

Answer: A

Explanation:

LCM of 12, 18, 21 and 28 = 252

The greatest four digit number = 9999

On dividing 9999 by 252, the remainder is 171

\therefore The greatest four digit number which is exactly divisible by each one of the numbers 12, 18, 21 and 28 = $9999 - 171 = 9828$

Hence, the correct answer is Option A

Question 145

The number of pair of positive integers whose sum is 99 and HCF is 9 is:

A 2

B 4

C 3

D 5

Answer: D

Explanation:

Given, HCF of two numbers = 9

Let the two numbers be $9x$ and $9y$

Sum of the numbers = 99

$$\Rightarrow 9x + 9y = 99$$

$$\Rightarrow 9(x + y) = 99$$

$$\Rightarrow x + y = 11$$

\Rightarrow The pair of positive integers which satisfies the above condition is (1,10) (2,9) (3,8) (4,7) (5,6)

\Rightarrow The possible pair of numbers are (9,90) (18,81) (27,72) (36,63) (45,54)

\therefore The number of positive pair of integers = 5

Hence, the correct answer is Option D

Question 146

50% of a number when added to 50 is equal to the number. The number is:

A 150

B 75

C 50

D 100

Answer: D

Explanation:

Let the number be x

50% of x means $50/100 \cdot x$

$$\Rightarrow x/2$$

now, given $x/2$ is added to 50 gives x

$$\text{i.e; } x/2 + 50 = x$$

$$\Rightarrow 50 = x - x/2$$

$$\Rightarrow 50 = x/2$$

$$x = 100$$

Therefore answer is option D

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Question 147

A train passes an electrical pole in 20 seconds and passes a platform 250 m long in 45 seconds. Find the length of the train:

- A 400 m
- B 250 m
- C 200 m
- D 300 m

Answer: C

Explanation:

Let the length of the train = L

Length of the platform (l) = 250 m

The train passes the electrical pole in 20 seconds

$$\therefore \text{Speed of the train} = \frac{L}{20} \text{ m/sec}$$

The train passes the platform in 45 seconds

$$\therefore \text{Speed of the train} = \frac{L+250}{45} \text{ m/sec}$$

$$\Rightarrow \frac{L}{20} = \frac{L+250}{45}$$

$$\Rightarrow \frac{L}{4} = \frac{L+250}{9}$$

$$\Rightarrow 9L = 4L + 1000$$

$$\Rightarrow 5L = 1000$$

$$\Rightarrow L = 200 \text{ m}$$

\therefore Length of the train = 200 m

Hence, the correct answer is Option C

Question 148

An epidemic broke out in a village in which 5% of the population died. Of the remaining, 20% fled out of panic. If the present population is 4655, then the population of the village originally was:

- A 5995
- B 6125

C 6000

D 5955

Answer: B

Explanation:

let the total population be $100x$

given that 5% people died

so 5% of $100x$ died

$\Rightarrow 5x$ has died

now remaining are $95x$

out of this 20% has fled away

i.e: 20% of $95x = 19x$

now remaining are $100x - 19x = 81x$

given that the present population, $81x = 4655$

$x =$

Question 149

A pipe can fill a tank in 24hrs. Due to a leakage in the botom, it is filled in 36 hrs. If the tank is half full, how much time will the leak take to take to empty the tank?

A 24 hrs

B 72 hrs

C 36 hrs

D 48 hrs

Answer: C

Explanation:

Let the volume of the tank = V

Time required for the pipe to fill the tank = 24hrs

\Rightarrow Volume filled by the tank in 1 hour = $\frac{V}{24}$

Let the time required for leak to empty the tank = x hrs

\Rightarrow Volume emptied by the leak in 1 hour = $\frac{V}{x}$

Time required to fill the tank when both the pipe and leak are working = 36hrs

\Rightarrow Volume filled in 1 hour when both the pipe and leak are working = $\frac{V}{36}$

$$\Rightarrow \frac{V}{24} - \frac{V}{x} = \frac{V}{36}$$

$$\Rightarrow \frac{V}{x} = \frac{V}{24} - \frac{V}{36}$$

$$\Rightarrow \frac{1}{x} = \frac{3-2}{72}$$

$$\Rightarrow \frac{1}{x} = \frac{1}{72}$$

$\Rightarrow x = 72$ hours

\therefore Time required for the leak to empty the tank = 72 hours

\Rightarrow Time required for the leak to empty half of the tank = $\frac{72}{2} = 36$ hours

Hence, the correct answer is Option C

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Question 150

The difference between simple interest and the true discount on Rs.2400 due 4 years hence at 5% per annum simple interest is:

- A Rs. 50
- B Rs. 30
- C Rs. 70
- D Rs. 80

Answer: D

Explanation:

Given,

Rate (R) = 5%

Time (T) = 4 years

Amount = Rs. 2400

$$\text{True Discount} = \frac{A \times R \times T}{100 + RT} = \frac{2400 \times 5 \times 4}{100 + (5 \times 4)} = \frac{2400 \times 5 \times 4}{120} = \text{Rs } 400$$

$$\text{Simple interest} = \frac{P \times T \times R}{100} = \frac{2400 \times 4 \times 5}{100} = \text{Rs } 480$$

∴ Difference between Simple interest and True discount = 480 - 400 = Rs 80

Hence, the correct answer is Option D

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General Awareness

Instructions

For the following questions answer them individually

Question 151

Dry ice is the solid form of

- A Carbon-di-oxide
- B Water
- C Air
- D Nitrogen

Answer: A

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Question 152

Which one of the following wood is used in making cricket bats?

- A Cedrus deodara

- B Salix purpurea
- C Linum usitatissimum
- D Morus alba

Answer: B

Question 153

What is the 'Talcher' important for?

- A Cable industry
- B Heavy water plant
- C Hydro-electricity generation
- D Atomic reactor

Answer: B

Question 154

Who is the founder of the concept "Sarvodya"?

- A K G Mushroowala
- B Mahatma Gandhi
- C Vinobha Bhave
- D Jai Prakash Narayan

Answer: B

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Question 155

World's largest producer of coffee/

- A Argentina
- B Peru
- C India
- D Brazil

Answer: D

Question 156

The battle of Plassey was fought between:

- A Mir Khasim and Robert Clive
- B Mir Jafar and Robert Clive
- C Sirajudduala and Robert Clive

D None of the options

Answer: C

Question 157

When and where did the concept of Earth hour began?

A In June 2007 in Christchurch, New Zealand

B In April, 2008 in Tokyo, Japan

C In May 2009 in Colombo Sri Lanka

D In March, 2007 in Sydney, Australia

Answer: D

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Question 158

The Industrial development Bank of India was set up in:

A July 1968

B July 1966

C July 1964

D July 1962

Answer: C

Question 159

The instrument used to measure pressure:

A Anemometer

B Aneroid barometer

C Thermometer

D Hygrometer

Answer: B

Question 160

Eddie Redmayne, won the Oscar (2015) for Best Actor for which film?

A Birdman

B None of the option

C The Theory of Every things

D Still Alice

Answer: C

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Question 161

Who invented the Safety razor?

- A Gillette
- B Steve Cher
- C Steve Job
- D Lar strauss

Answer: A

Question 162

'Cloud burst' means

- A Formation of artificial rain
- B Abnormally heavy downpour of rain associated with a thunderstorm
- C Presence of scattered flakes of cloud in the sky.
- D Sowing of seeds of a crop in cloudy weather.

Answer: B

Question 163

More than 50% of the world's coal deposits are held by:

- A China, India and Russia
- B China, India and USA
- C India, Russia and USA
- D USA, Russia and China

Answer: D

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Question 164

The intensity ratio of waves is 25:9. What is the ratio of their amplitudes?

- A 25 : 9
- B 5 : 3
- C 3 : 5
- D 50 : 18

Answer: B

Question 165

Which was the first talkie film made in India?

- A Raja Harishchandra
- B Kisan Kanya
- C Mother India
- D Alam Ara

Answer: D

Explanation:

Ardeshir Irani released **Alam Ara**, the first Indian talkie, on 14 March 1931. Irani later produced the first south Indian talkie film Kalidas directed by H. M. Reddy released on 31 October 1931.

Question 166

How many states are there in the Indian Union?

- A 27
- B 28
- C 29
- D 30

Answer: C

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Question 167

Which day is observed as World AIDS Day?

- A March 20th
- B December 1st
- C March 1st
- D December 20th

Answer: B

Question 168

When number of turns in a coil is tripled, without any change in the length of coil, its self-inductance becomes?

- A one-third
- B six times
- C three times
- D nine times

Answer: D

Question 169

Which factor is necessary for the development of democratic institutions?

- A Respect for individual rights
- B A one-party system
- C Strong military forces
- D An agricultural economy

Answer: A

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Question 170

Which one of the following is odd?

- A SNMP
- B IMAP
- C SMTP
- D POP

Answer: D

Question 171

First human heart transplant was performed in:

- A 1972
- B 1967
- C 1959
- D 1955

Answer: B

Question 172

When was the last telegram sent in India?

- A July 30, 2013
- B June 14, 2013
- C August 1, 2013
- D July 14, 2013

Answer: B

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Question 173

Which of the following property of sound is affected by change in air temperature?

- A Amplitude
- B Wavelength
- C Frequency
- D Intensity

Answer: C

Question 174

The directive principles incorporated in the Indian Constitution have been inspired by the Constitution of:

- A Canada
- B Ireland
- C USA
- D Australia

Answer: B

Question 175

National Renewal Fund (NRF) was instituted for the purpose of:

- A Rural reconstruction
- B Providing pension for retiring employees
- C Restructuring and modernization of industries
- D Social security

Answer: C

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Question 176

The common name of sodium bicarbonate is:

- A Baking powder
- B Baking Soda
- C Soda ash
- D Soda lime

Answer: A

Question 177

Who was Akbar's famous revenue minister?

- A Humayun
- B Tansen

C Todarmal

D Rana Pratap Singh

Answer: C

Question 178

How many Nobel Prize awards are awarded each year?

A 8

B 5

C 6

D 10

Answer: C

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Question 179

'Red Data Book' provides and account of?

A Endangered plants only

B Endangered plants and animals

C Fossil plants

D Extinct animals only

Answer: B

Question 180

The serious environmental degradation of Maldives is considered to be essentially due to:

A Industrial pollution of water and air

B Constant soil erosion

C None of the options

D High population density

Answer: D

Question 181

RBI's deadline to exchange pre 2005 currency notes of ₹ 500 and ₹ 1000 is.

A December 31, 2015

B January 1, 2015

C April 1, 2015

D March 31, 2015

Answer: A

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Question 182

Who was the first Indian to become member of British Parliament?

- A Surendranatah Banerjee
- B D.N. Wacha
- C Firozshah Mehta
- D D. Dadabhai Naorji

Answer: D

Question 183

The Indian, who won the Grammy Award 2015 in the new age album category is;

- A Musician Ricky Kej
- B Singer Kavita Krishnamurthy
- C Author Neela Vaswani
- D Musician A.R. Rehman

Answer: A

Question 184

Phycology is the study of:

- A Algae
- B Lichens
- C Fungi
- D Bacteria

Answer: A

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Question 185

Who among the following rulers abolished Jaziya?

- A Jahangir
- B Balban
- C Aurangzeb
- D Akbar

Answer: D

Question 186

A bullet of mass 'm' and velocity 'a' is fired in to a large block of wood of mass 'M'. The final velocity of the system is:

- A $\frac{Ma}{(m+M)}$
- B $\frac{(m+M)a}{M}$
- C $\frac{ma}{(m+M)}$
- D $\frac{(m+M)a}{m}$

Answer: C

Question 187

If there is one million Mg^2 ions in $MgCl_2$, how many chloride ions are there?

- A Ten million
- B Two million
- C Half a million
- D One million

Answer: B

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Question 188

Which one of the following is not coal variety/

- A Peat
- B Lignite
- C Dolomite
- D Bituminous

Answer: C

Question 189

Who wrote the famous novel 'The Guide'?

- A Chetan Bhagal
- B Arudhati Roy
- C R.K. Narayan
- D Satyajir Ray

Answer: C

Question 190

The non-cooperation movement was called off due to?

- A Jallian walla Bagh
- B Chauri Chaura Incident
- C Poona pact
- D Gandhi-Irwin pact

Answer: B

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Question 191

The idea of parliamentary form of government is adapted from:

- A US
- B USSR
- C UK
- D Ireland

Answer: C

Question 192

The total utility from 9 units of commodity x is 20 and from 10 units is 15. Calculate the marginal utility from 10th

- A -0.5
- B 0.5
- C 5
- D -5

Answer: D

Question 193

Name the first Asian country to Orbit Mars.

- A Japan
- B China
- C India
- D Pakistan

Answer: C

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Question 194

Soilless agriculture refers to:

- A Inter-cropping
- B Sericulture
- C Hydroponics
- D Hygroponics

Answer: C

Question 195

The gas that causes suffocation and death when coal or coke is burnt in a closed room is;

- A Ethane
- B Carbon di-oxide
- C Methane
- D Carbon monoxide

Answer: D

Question 196

In which year was the first world environment day observed?

- A 1973
- B 1980
- C 1972
- D 1974

Answer: C

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Question 197

Pick out the person associated with the coining of the term 'gene':

- A Morgan
- B Mendel
- C Johannsen
- D Waldeyer

Answer: C

Question 198

Which U.S. President announced the "New Deal" for economic recovery in the aftermath of the Great Depression?

- A J.F. Kennedy
- B Benjamin Franklin
- C Abrahan Lincoln
- D Roosevelt

Answer: D

Question 199

Barter transactions means:

- A Coins are exchange for goods
- B Goods are exchanged with goods
- C Money acts as a medium of exchange
- D Goods are exchanged with gold.

Answer: D

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Question 200

Which of the following memories must be refreshed many time per second?

- A Dynamic RAM
- B Static RAM
- C ROM
- D EPROM

Answer: A

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