



SSC CPO 12th Dec 2019 Shift-1

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General Intelligence and Reasoning

Instructions

For the following questions answer them individually

Question 1

Which of the option figures is the exact mirror image of the given problem figure when the mirror is held to the right side of the problem figure?

ProblemFigure:

LVN35ER24

A 4SR35ENV1

B 4SR35ENV1

C LVN35ER24

D 4SR35ENV1

Answer: C

Explanation:

Given figure

ProblemFigure:

LVN35ER24

the above figure mirror image is given below held to the right side of the problem figure

ProblemFigure:

LVN35ER24



LVN35ER24

then the mirror image is

LVN35ER24

therefore Option (C) Ans

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Question 2

In a certain code language, 'REQUEST' is written as '22-21-7-23-19-7-20'. How will 'SWITCH' be written as in that language?

A 21-25-11-22-5-10

B 19-23-11-22-5-8

C 10-5-20-11-25-21

D 10-5-22-11-25-21

Answer: D

Explanation:

We know that alphabet position A =1, B=2, C=3, D=4 Z=26

Given that 'REQUEST' is written as '22-21-7-23-19-7-20'

REQUEST (represent in the form alphabet position)

18 5 17 21 5 19 20

the pattern From Right to the left side adds +2 alphabet position

$(20+2)$ $(19+2)$ $(5+2)$ $(21+2)$ $(17+2)$ $(5+2)$ $(18+2)$

22 - 21 - 7 - 23 - 19 - 7 - 20

Similarly, 'SWITCH' be written as

S W I T C H represent in the form of alphabet position

19 23 9 20 3 8

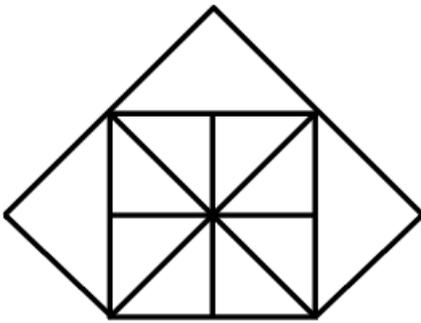
the pattern From Right to the left side adds +2 alphabet position is given below

$(8+2)$ $(3+2)$ $(20+2)$ $(9+2)$ $(23+2)$ $(19+2)$

10 - 5 - 22 - 11 - 25 - 21 Ans

Question 3

How many triangles are there in the given figure?



A 19

B 20

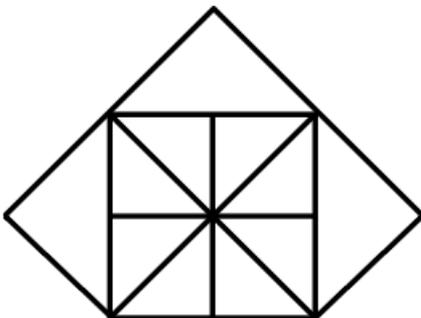
C 15

D 17

Answer: A

Explanation:

Given that

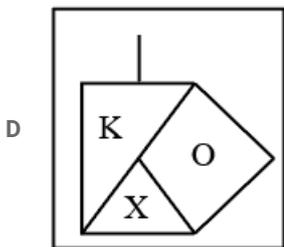
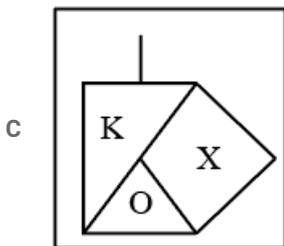
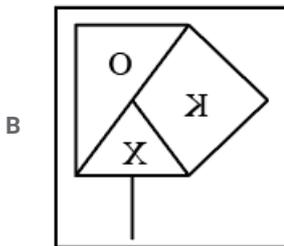
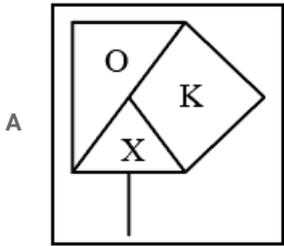
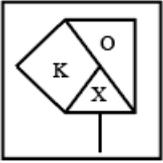


from the above figure, we count the triangle

then total triangle = 19 Ans

Question 4

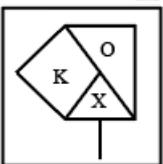
Which of the option figures is the exact mirror image of the given problem figure when the mirror is held to the right side of the problem figure?



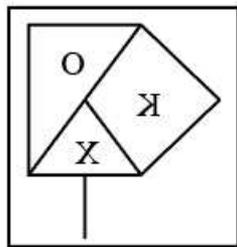
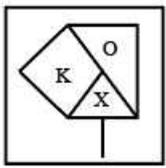
Answer: B

Explanation:

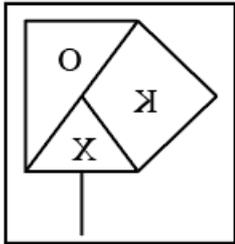
Given figure



the above figure mirror image is given below held to the right side of the problem figure



then mirror image is



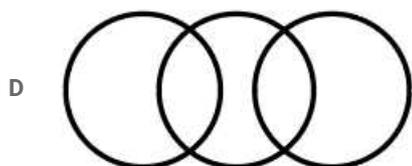
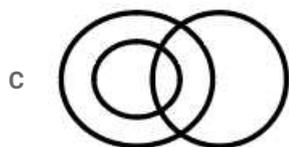
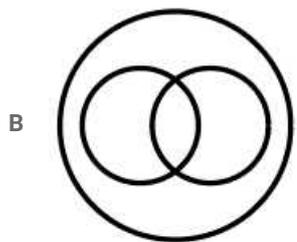
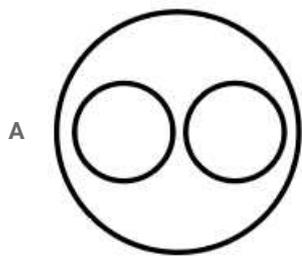
therefore Option (B) Ans

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Question 5

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

Copper, Metal, Iron

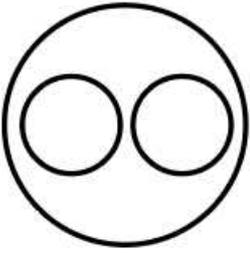


Answer: A

Explanation:

Given that Copper, Metal, Iron

we know that Copper and Iron both are Metal hold own property then Venn Diagram represent in given below



therefore option (A) Ans

Question 6

Select the option that will fill in the blank and complete the given series.

7, 16, 40, 84, _____, 252

A 151

B 149

C 150

D 153

Answer: D

Explanation:

Given series 7, 16, 40, 84, _____, 252

we take difference $16-7 = 9$, $40-16 = 24$, $84-40 = 44$,..... and so on

Again we take a difference of difference $24-9 = 15$, $44-24 = 20$, and next 25 and next 30 and so on

then add $44 + 25 = 69$ (difference of next series number)

therefore $84 + 69 = 153$ Ans

Question 7

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

HOSPITAL : JLWKOMIC :: MEDICINE : ?

A OBHDIBVW

B PBIHIBWV

C PCHDIBWV

D OBHDIBVV

Answer: D

Explanation:

Given that HOSPITAL: JLWKOMIC:: MEDICINE: ?

We Know that Alphabet Position A=1, B=2, C=3 Z=26.

then represent in the form of alphabet position

8 15 19 16 9 20 1 20: 10 12 23 11 15 23 9 3:: 13 5 4 9 3 9 14 5: ?

from the above, the pattern is going on increasing and decreasing continuous +2,-3,+4,-5,+6,-7,+8,-9

then ? = $(13+2)(5-3) (4+4) (9-5) (3+6) (9-7) (14+8) (5-9)$

= 15 2 8 4 9 2 22 22

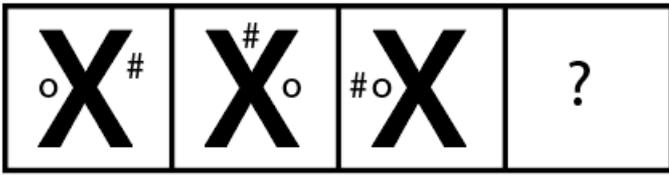
? = O B H D I B V V (represent in the form of the alphabet)

? = OBHDIBVV Ans

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Question 8

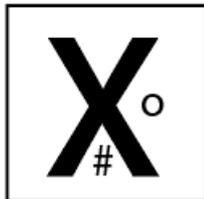
Select the figure that will come next in the following figure series.



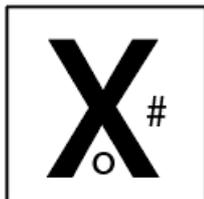
A



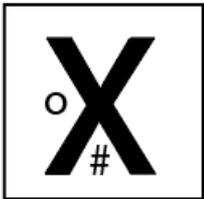
B



C



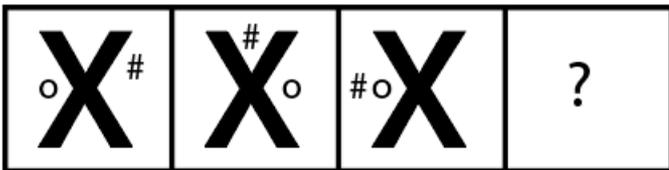
D



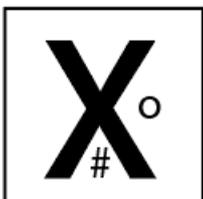
Answer: B

Explanation:

Given figure,



From the above figure, the pattern is going O is shipped in each box opposite side and # is rotated anticlockwise in each box then? =



therefore Option (B)Ans

Question 9

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

- A Car
- B Aeroplane
- C Petrol
- D Bus

Answer: C

Explanation:

Given option Car, Bus and Aeroplane these are vehicles but petrol is fuel therefore option (C) Petrol Ans

Question 10

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

Monk : Monastery :: Knight : ?

- A Stable
- B Cottage
- C Mansion
- D Convent

Answer: C

Explanation:

Given that Monk: Monastery:: Knight:?

from the above Monks Live in Monastery in the same Way Knights live in Castle(Mansion).

therefore Option (C) Mansion Ans

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Question 11

If '+' means '-', '-' means '×', '×' means '÷' and '÷' means '+', then what will be the value of the following expression?

$$27 - 2 + 24 \times 8 \div 4$$

- A 45
- B 55
- C 50
- D 51

Answer: B

Explanation:

$$\text{Given expression } 27 - 2 + 24 \times 8 \div 4$$

$$\Rightarrow 27 \times 2 - 24 \div 8 + 4 \text{ (we change Sign according to question)}$$

$$\Rightarrow 27 \times 2 - 3 + 4$$

$$\Rightarrow 54 - 3 + 4$$

$$\Rightarrow 54 - 3 + 4$$

$$\Rightarrow 58 - 3$$

$$\Rightarrow 55 \text{ Ans}$$

Question 12

Four pairs of numbers have been given, out of which three are alike in some manner, while one is different. Choose out the odd one.

A 18 : 306

B 25 : 650

C 23 : 552

D 13 : 182

Answer: A

Explanation:

Given option (B), (C), (D) is follow the same pattern given below

(B) 25 : 650

$$25 \times 26 = 650 \text{ then } 25 : 650$$

(C) 23:552

$$23 \times 24 = 552 \text{ then } 23: 552$$

(D) 13:182

$$13 \times 14 = 182 \text{ then } 13 : 182$$

but option (A) is not follow that pattern is given below

(A)18:306

$$18 \times 19 = 342 \text{ but given relation is not follow}$$

therefore option (A) is different from other option .

Ans (A) is odd

Question 13

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

WARDROBE : AWDROREB :: AQUARIUM : ?

A QAAIURMU

B UQAAIRMU

C MUIRRAUQA

D QAAUIRMU

Answer: D

Explanation:

Given that WARDROBE: AWDROREB:: AQUARIUM:?

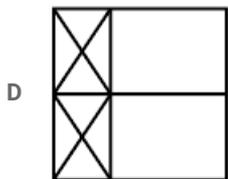
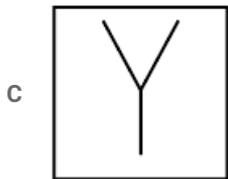
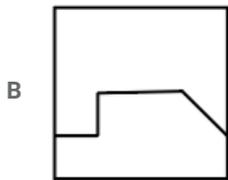
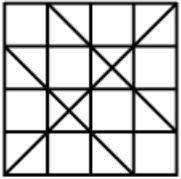
From the above, the pattern is going On First two alphabet Interchange place and next Two, Next Two change your Position and So on then? = QA AU IR MU

therefore Option (D) QAAUIRMU Ans

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Question 14

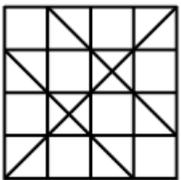
Select the option that is embedded in the given figure. (Rotation is NOT allowed)



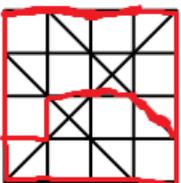
Answer: B

Explanation:

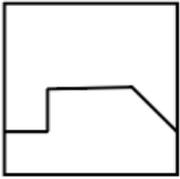
Given that figure



From the above figure embedded figure is given below



then our embedded figure



therefore Option (B) Ans

Question 15

Four pairs of numbers have been given, out of which three are alike in some manner, while one is different. Choose out the odd one.

A 16 - 64

B 26 - 168

C 34 - 289

D 18 - 81

Answer: B

Explanation:

we have given the option we check different

(A) 16 - 64

16

$$16 \times 4$$

$$\Rightarrow 16 \times 4 = 64$$

then 16 - 64

we check option (B) 26 - 168

26

$$26 \times 4$$

$$\Rightarrow 26 \times 6.5 = 169$$

then 26 - 169 Right but given 26-168

we check (C) 34-289

34

$$34 \times 4$$

$$\Rightarrow 34 \times 8.5 = 289$$

Again we check option (D) 18-81

18

$$18 \times 4$$

$$\Rightarrow 18 \times 4.5$$

$$\Rightarrow 81$$

then 18-81

therefore we can say A, C,D follow same pattern but B is not followed

therefore option (B) is different another option

Ans (C) 26-168

Question 16

Which two signs need to be interchanged to make the following equation correct?

$$45 - 9 \div 3 + 5 \times 6 = 32$$

A \times and \div

B \div and $+$

C \times and $+$

D \div and $-$

Answer: D

Explanation:

Given expression $45 - 9 \div 3 + 5 \times 6 = 32$

we check option (A) \times and \div

we put Sign in the expression

$$45 - 9 \times 3 + 5 \div 6 = 32$$

From LHS $45 - 9 \times 3 + 5 \div 6$

$$\Rightarrow 45 - 27 + 0.833$$

$$\Rightarrow 18 + 0.833$$

$\Rightarrow 18.833$ RHS it is not satisfied .

check another option \div and $+$

we put Sign in the expression

$$45 - 9 + 3 \div 5 \times 6 = 32$$

From LHS $45 - 9 + 3 \div 5 \times 6$

$$\Rightarrow 45 - 9 + 0.6 \times 6$$

$$\Rightarrow 45 - 9 + 3.6$$

$$\Rightarrow 36 + 3.6$$

$\Rightarrow 39.6$ RHS it is not satisfied .

We check another option \times and $+$

we put sign in the given expression

$$45 - 9 \div 3 \times 5 + 6 = 32 \quad \text{Similar we check it is also not satisfied .}$$

we check another option \div and $-$

we put sign in the given expression

$$45 \div 9 - 3 + 5 \times 6 = 32$$

From LHS $45 \div 9 - 3 + 5 \times 6$

$$\Rightarrow 5 - 3 + 30$$

$$\Rightarrow 35 - 3$$

$\Rightarrow 32$ RHS it is satisfied.

therefore (D) \div and $-$ Ans

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Question 17

In a certain code language, 'MACHINE' is written as 'N5XS3M4'. How will 'PREDICT' be written as in that language?

A K34W3XH

B KI4W3XG

C KI2W3YF

D JI4V3YG

Answer: B

Explanation:

We know that Vowel A E I O U and its represent Right side position of the vowel

A E I O U = A(5) E (4) I (3) O(2) U (1)

M A C H I N E is written N 5 X S 3 M 4

then the vowel represents Number and consonant represent the opposite alphabet

therefore P R E D I C T = K I 4 W 3 X G (where P opposite K, R opposite I, D opposite W, C opposite X, T opposite G)

Ans= K I 4 W 3 X G

Question 18

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

Leaves : Rustle

A Jackal : Roar

B Rain : Patter

C Drum : Jingle

D Bells : Temple

Answer: B

Explanation:

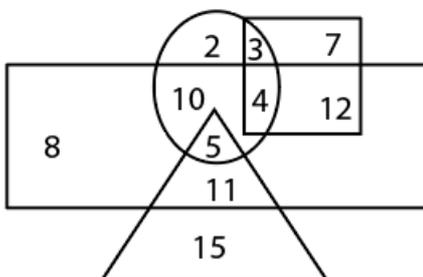
Given that Leaves: Rustle

in the Option, the same relationship is to follow the Option Rain: Patter

Ans Rain: Patter Ans

Question 19

In the Venn diagram given below. the circle represents 'North Indian'. the triangle represents 'Pianists', the rectangle represents 'Males' and the square represents 'Engineers'. The numbers given in the diagram represents number of persons of that particular category. Who among the following is a female, North Indian; Engineer?



A 2

B 5

C 3

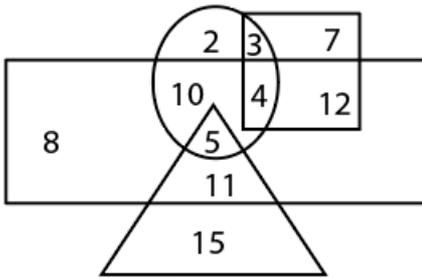
D 7

Answer: C

Explanation:

Given that the circle represents 'North Indian', the triangle represents 'Pianists', the rectangle represents 'Males' and the square represents 'Engineers'

the Venn diagram is given below



then from the given Venn diagram a female, North Indian; Engineer = 3 (circle represent North Indian and square represent to Engineers)

therefore option (C) 3 Ans

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Question 20

In a certain code language, O is written as R, R is written as A, A is written as I, I is written as N, N is written as E, E is written as P, P is written as T, C is written as M and L is written as L. How will PORCELAIN be written as in that language?

- A TRAMPLINE
- B ERAMPLINT
- C TAMRPLINE
- D PLINETRAM

Answer: A

Explanation:

Given that code language,

O is written as R, R is written as A, A is written as I, I is written as N, N is written as E, E is written as P, P is written as T, C is written as M and L is written as L

then PORCELAIN is written as T R A M P L I N E

therefore T R A M P L I N E Ans

Question 21

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

- A Defect
- B Fault
- C Flaw
- D Mend

Answer: D

Explanation:

From the given Option Defect, Fault, Flaw is Synonymes but mends are Antonymes of these options

Hence Option (D) mend is different from another option

therefore Option (D) Mend Ans

Question 22

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

$$(18 * 9 * 14) * 37 * 4$$

A $\div - \times =$

B $\times - \div =$

C $- \div \times =$

D $\times \div - =$

Answer: B

Explanation:

Given Expression $(18 * 9 * 14) * 37 * 4$

we check option (A) $\div - \times =$

we put above Sign in the given expression

$$(18 \div 9 - 14) \times 37 = 4$$

From LHS $(18 \div 9 - 14) \times 37$

$$\Rightarrow (2 - 14) \times 37$$

$$\Rightarrow -12 \times 37 \text{ it is not satisfied LHS and RHS is equal .}$$

then Check option (B) $\times - \div =$

we put the sign in the given expression

$$(18 \times 9 - 14) \div 37 = 4$$

From LHS $(18 \times 9 - 14) \div 37$

$$\Rightarrow (162 - 14) \div 37$$

$$\Rightarrow 148 \div 37$$

$$\Rightarrow 4 \text{ RHS it is satisfied to LHS = RHS}$$

then option (B) $\times - \div =$ Ans

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Question 23

Seven professionals are standing in a row. A journalist is to the immediate right of a pharmacist and to the immediate left of a teacher. An advocate is on the immediate right of an accountant. The advocate and pharmacist have one person between them. The teacher and a doctor have two persons between them. An architect and the pharmacist have two persons between them. Who is in the middle?

A Pharmacist

B Doctor

C Journalist

D Teacher

Answer: A

Explanation:

Seven Professional are standing in a Row journalist (j) is immediate right of Pharmacist (P) and immediate left of the teacher

P J T

Advocate (Ad) and P have one person between them

AD _ P J T (advocate is on the immediate right of an accountant (AC))

AC AD _ P J T (teacher and doctor (Dr) have two pensions between them Architect (AT) and Pharmacist have two people between them)

AC AD _ D _ P J T

AC AD D P _ J T AR

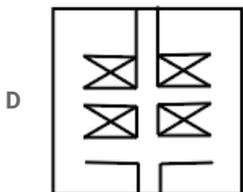
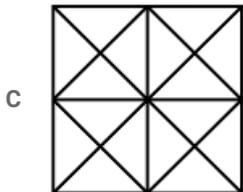
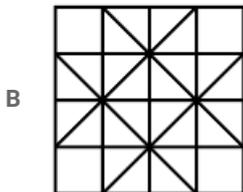
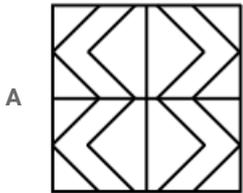
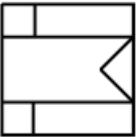
from the above P in the middle

(P) Pharmacist

Ans Pharmacist

Question 24

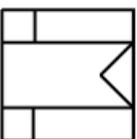
Select the option in which the given figure is embedded, (Rotation is NOT allowed)



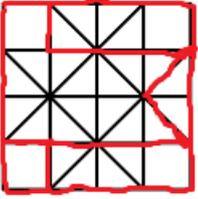
Answer: B

Explanation:

Given figure



the above figure is embedded is given below



therefore Option (B) Ans

Question 25

The statements are given followed by two conclusions I and II. Consider the given statements as true and decide which of the given conclusions logically follow/s from the given statements.

Statements:

United Nation has adopted 21st June as world Yoga day. This has promoted India's glorious tradition all over the world.

Conclusions:

I. Yoga is practiced only on 21st June.

II. More people are coming to India now to practice Yoga.

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

Answer: A

Explanation:

Given that **Statements:**

United Nation has adopted 21st June as world Yoga day. This has promoted India's glorious tradition all over the world.

From the above we check the **Conclusions:**

- I. Yoga is practiced only on 21st June. not Follow
- II. More people are coming to India now to practice Yoga. not Follows

, therefore, Neither conclusion I nor conclusion II follows

Hence Option (A) Ans

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Question 26

Select the option that will fill in the blank and complete the given series.

CDZ, DGE, EJJ, FMO, GPT, _____

- A GRY
- B HRZ
- C HSY
- D IQX

Answer: C

Explanation:

Given that CDZ, DGE, EJJ, FMO, GPT,?

We know that Alphabet position A=1, B=2, C=3, Z=26

then we represent series in alphabet position

3 4 2 6, 4 7 5, 5 10 10, 6 13 15, 7 16 20, ?

we can say that first ascending in 1 alphabet position to next, second ascending 3 alphabet positions and last is ascending 5 alphabet positions

then next ? = 8 19 25

? = HSY(8 19 25) Ans

Question 27

Select the option that will fill in the blank and complete the given series.

6, 10, 19, 35, 60, ____

- A 93
- B 95
- C 96
- D 98

Answer: C

Explanation:

Given series 6, 10, 19, 35, 60, ____

difference of number

$10 - 6 = 4$, $19 - 10 = 9$, $35 - 19 = 16$, $60 - 35 = 25$

then we can say the series follow square of number 2, 3, 4, 5, 6 ... and so on

then next $60 + 6^2 = 60 + 36 = 96$ Ans

Question 28

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

Fatigue : Rest

- A Water : Thirst
- B Disease : Medicine
- C Darkness : Night
- D Food : Hunger

Answer: B

Explanation:

Given that Fatigue: Rest

From the above Fatigue is Relieved by Rest

in the same Way, Disease is Cure by Medicine

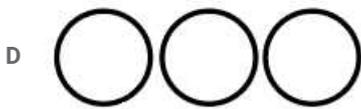
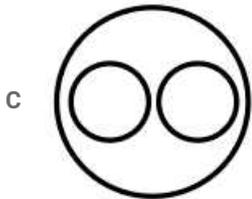
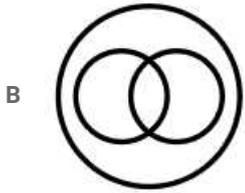
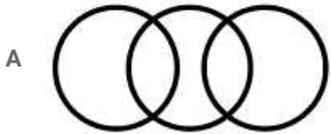
therefore Option (B) Disease: Medicine Ans

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Question 29

Select the venn Diagram that best represents the relationship between the following classes.

Flowers, Stems, Roots

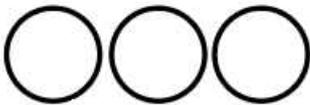


Answer: D

Explanation:

Given that Flowers, Stems, Roots

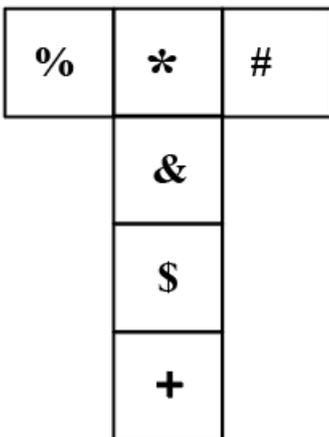
we know that Roots, stems, Flowers are part plant but this property is different from each other than given below Venn diagram



therefore option (D) Ans

Question 30

A cube is made by folding the given sheet. In the cube so formed, what would be the symbol on the opposite side of '+'?



A #

B %

C \$

D &

Answer: D

Explanation:

Given figure

%	*	#
	&	
	\$	
	+	

from the above figure, the opposite side of all symbols is given below shown in the figure

%	*	#
	&	
	\$	
	+	

then the symbol on the opposite side of '+' is &

therefore Option (D) & Ans

Question 31

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

104 : 117 :: 216 : ?

- A 342
- B 243
- C 234
- D 245

Answer: B

Explanation:

Given question 104: 117:: 216:?

104 216
is written as 117 = ?

$$\Rightarrow 104? = 117 \times 216$$

$$\Rightarrow ? = \frac{117 \times 216}{104}$$

$$\Rightarrow ? = 243 \text{ Ans}$$

General Science Notes (Download PDF)

Question 32

Four pairs of numbers have been given, out of which three are alike in some manner, while one is different. Choose out the odd one.

- A 31 - 41
- B 73 - 79
- C 83 - 97
- D 61 - 71

Answer: B

Explanation:

From the above Option check

Option (A) 31-41

then $41 - 31 = 10$

(C) 83-97

then $97 - 83 = 14$

(D) 61-71

then $71 - 61 = 10$

(B) 73-79

then $79 - 73 = 6$ it is single digit difference

therefore Option (B) 73-79 Ans

Question 33

Four numbers have been given out of which three are alike in some manner, while one is different. Choose the odd one.

- A 91
- B 171
- C 169
- D 195

Answer: B

Explanation:

From the given Option 91, 171, 195 like the same manner

But 169 is different

169 is perfect Square of 13

therefore Option (C) 169 Ans

Question 34

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

14 : 98 :: 18 : 162 :: 26 : ?

- A 345

- B 338
- C 328
- D 262

Answer: B

Explanation:

Given that $14 : 98 :: 18 : 162 :: 26 : ?$

the pattern is followed by

$$14 : 14 \times (14 \div 2) = 98$$

$$18 : 18 \times (18 \div 2) = 162$$

$$\text{Next } 26 : 26 \times (26 \div 2) = 338 \text{ Ans}$$

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Question 35

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

25, 28, 23, 30, 21, 33

- A 21
- B 30
- C 23
- D 33

Answer: D

Explanation:

Forgiven number series 25, 28, 23, 30, 21, 33 followed in two-part

$$25 - 2 = 23$$

$$23 - 2 = 21$$

and 2nd

$$28 + 2 = 30$$

$$30 + 2 = 32 \text{ So } 33 \text{ is not related to series}$$

Ans = 33

Question 36

'Link' is related to 'Chain' in the same way as 'Bead' is related to '_____'.


- A Pearl
- B Necklace
- C Jewellery
- D Sea

Answer: B

Explanation:

Given that

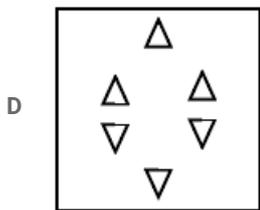
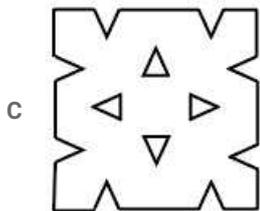
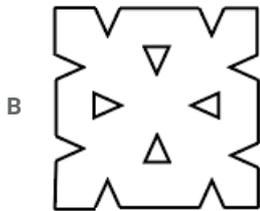
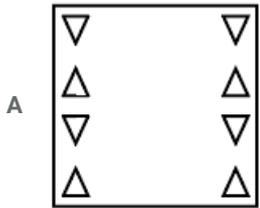
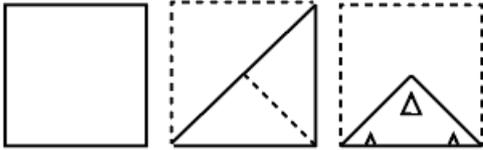
'Link' is related to 'Chain'

In the same Way 'Bead' related to 'Necklace'

therefore Option (B) Necklace Ans

Question 37

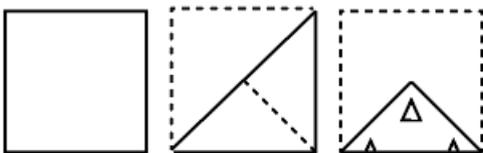
The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?



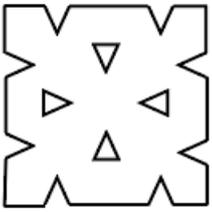
Answer: B

Explanation:

Given that The sequence of folding a piece of paper and the manner paper cut given below



from the above figure, we can unfold the paper then we obtain the given below



therefore Option (B) Ans

SSC Stenographer Previous Papers (Latest Pattern)

Question 38

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

15	196	14
18	255	?
7	96	16

- A 15
- B 13
- C 12
- D 8

Answer: A

Explanation:

As the forgiven question, the pattern follows in row form

$$15 \times 14 - 14 = 196$$

$$7 \times 16 - 16 = 96$$

$$\text{next } 18 \times ? - ? = 255$$

$$\Rightarrow 17? = 255$$

$$255$$

$$\Rightarrow ? = 17$$

$$\Rightarrow ? = 15 \text{ Ans}$$

Question 39

Four letter-cluster have been given out of which three are alike in some manner, while one is different. Choose the odd one.

- A DGK
- B MLY
- C ENR
- D QFW

Answer: C

Explanation:

We know that Alphabet position A = 1, B=2, C=3 Z=26

DGK is written as alphabet position = 4 7 11

the pattern is follow $4+7 = 11$ (K)

MLY is written as alphabet position = 13 12 25

pattern is follow $13+12=25$

and Similar QFW is written as alphabet position = 17 6 23

pattern is follow $17+6=23$

But ENR is written as = 5 14 18

from the above pattern we check $5+14=19$ which is not satisfied the above pattern

therefore (C) is different from another option .

Question 40

Which of the given options would be a logical sequence of the following words?

1. Primary
2. Kinder Garten
3. University
4. Secondary
5. Higher Secondary

A 2, 1, 5, 3, 4

B 3, 1, 5, 2, 4

C 2, 1, 4, 5, 3

D 5, 3, 1, 4, 2

Answer: C

Explanation:

Given words written to be a logical sequence is given below

2. Kinder Garten 1. Primary 4. Secondary 5. Higher Secondary 3. University

then 2,1,4,5,3

therefore option (C) 2,1,4,5,3 Ans

SSC CGL Tier-2 Previous Papers PDF

Question 41

If each of the letters in the English alphabet is assigned odd numerical value beginning with A = 1, B = 3 and so on, what will be the total value of the letters of the word NOMINAL?

A 150

B 144

C 146

D 149

Answer: D

Explanation:

Given that A = 1, B = 3, C = 5..... and so on

so that it is followed expression $n^{th} \text{alphabet} = 2 \times n - 1$

then NOMINAL Value = ?

$$N = 2 \times 14 - 1 = 27$$

$$O = 2 \times 15 - 1 = 29$$

$$M = 2 \times 13 - 1 = 25$$

$$I = 2 \times 9 - 1 = 17$$

$$N = 2 \times 14 = 27$$

$$A = 2 \times 1 - 1 = 1$$

$$L = 2 \times 12 - 1 = 23$$

therefore total value NOMINAL = $27+29+25+17+27+1+23 = 149$ Ans

Question 42

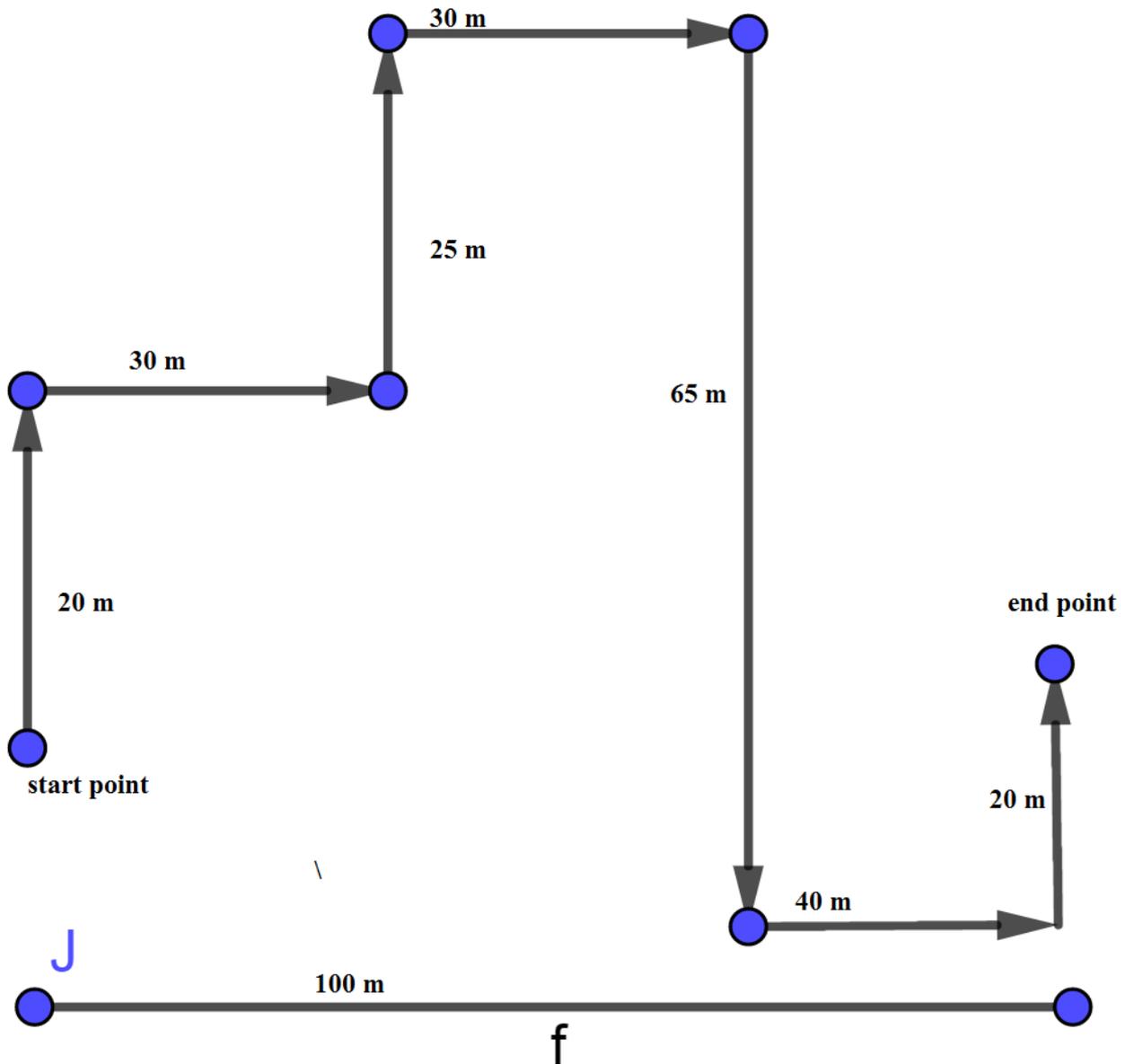
Ameeta walks 20 m towards the north and then turns right and walks 30 m. Then she turns left and walks 25 m. After that she turns right and walks 30 m. From there, she turns right and walks 65 m. Then she again turns left and walks 40 m. She finally turns left and walks 20 m. How far is she from her home now and in which direction with reference to her home?

- A 20 m, West
- B 40 m, South
- C 100 m, East
- D 20 m, East

Answer: C

Explanation:

We draw the diagram of walking distance



she is far away from her home = $30 + 30 + 40 = 100$ m in East (from her home)

Hence 100 meter east Ans

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 given conclusions logically follow(s) from the statements.

Statements:

- I. Some appliances are electronic.
- II. Some electronics are tube lights.

Conclusions:

- I. Some appliances are tube lights.
- II. No tube light is an appliance.

- A Only conclusion II follows.
- B Only conclusion I follows.
- C Either conclusion I or II follows.
- D Neither conclusion I nor II follows.

Answer: C

Explanation:

Given that **Statements:**

- I. Some appliances are electronic.
- II. Some electronics are tube lights.

From the above Statements, we can draw the figure is given below



the above figure we can check

Conclusions:

- I. Some appliances are tube lights CND
- II. No tube light is an appliance CND

therefore Either Conclusion I or II follow

Hence Option (C) Ans

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Question 44

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

X, U, P, M, ?, E

- A I
- B H
- C J
- D K

Answer: B

Explanation:

Given alphabet series X, U, P, M, ?, E

we know that alphabet position A = 1, B=2, C=3, D=4..... z=26

then X= 24, U= 21, P= 16, M= 13, E = 5

the series in alphabet position form 24, 21, 16, 13, ?, 5

$$24 - 21 = 3$$

$$21 - 16 = 5$$

$$16 - 13 = 3$$

$$13 - ? = 5$$

$$? = 13 - 5 = 8$$

$$\text{next } 8 - 5 = 3$$

$$? = H (8) \text{ Ans}$$

Question 45

Four pairs of letter-cluster have been given out of which three are alike in some manner, while one is different. Choose the odd one.

- A NOQ - MLK

B EGI - VTR

C QSU - JHF

D BEG - YVT

Answer: A

Explanation:

In the given option (B),(C),(D) is follow the same pattern of alphabet opposite alphabet given below

(B) EGI-VTR is following the pattern E opposite alphabet word V, G is opposite T and I is opposite R

then EGI -VTR

(C)QSU - JHF is following the same pattern Q is opposite alphabet J, S is opposite alphabet H, and U opposite alphabet F

then QSU-JHF

(D) BEG-YVT is following the same pattern B is opposite alphabet Y, E is opposite alphabet V and G is opposite alphabet T

But option (A) NOQ-MLK does not follow the same.

therefore option (A) NOQ-MLK Ans

Question 46

Arrange the following words in the order in which they appear in an English dictionary.

1. Appear
2. Apparent
3. Apostle
4. Apology
5. Appetite

A 3, 5, 4, 1, 2

B 5, 3, 4, 1, 2

C 4, 3, 2, 1, 5

D 5, 4, 3, 1, 2

Answer: C

Explanation:

From the given words arranged in the form of an English dictionary

then 4. Apology 3. Apostle 2. Apparent 1. Appear 5. Appetite

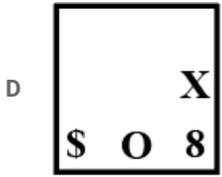
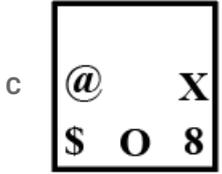
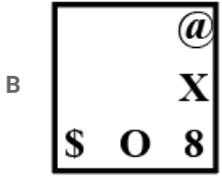
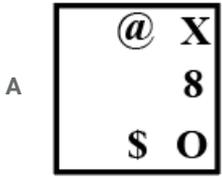
therefore, 4 3 2 1 5 Ans

SSC Study Material

Question 47

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

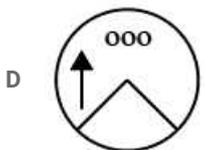
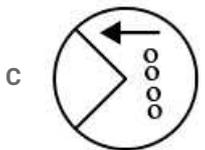
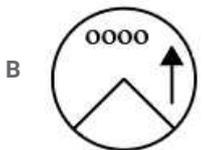
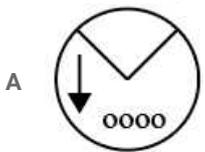
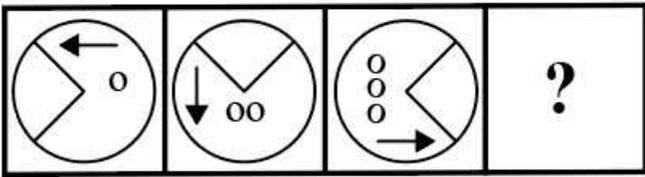
	O	X 8 O	8	
	8		O	?
8 X	X	\$	\$	



Answer: C

Question 48

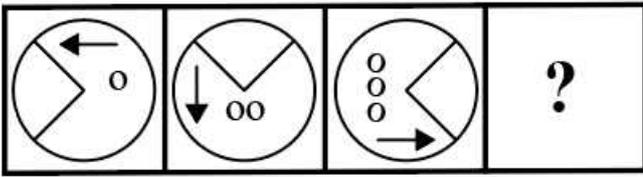
Select the figure that will come next in the following figure series.



Answer: B

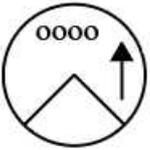
Explanation:

Given figure



from the above figure, the pattern is going rotated anticlockwise and each rotation add one zero

then? =



therefore Option (B) Ans

Question 49

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

72 - 14

A 45 - 20

B 92 - 17

C 36 - 19

D 81 - 80

Answer: A

Explanation:

Given that 72 - 14

then $72 = 7 \times 2$

$\Rightarrow 72 = 14$

therefore $45 = 4 \times 5$

45 - 20 Ans

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Question 50

Select the option in which the numbers do NOT share the same relationship as that shared by the given pair of numbers.

(98, 107, 125)

A (319, 328, 346)

B (122, 131, 149)

C (29, 38, 56)

D (73, 82, 99)

Answer: D

Explanation:

Given that (98, 107, 125)

that follows the pattern $107 - 98 = 9$

and $125 - 107 = 18$

same pattern follow given option (A) (319, 328, 346)

the pattern is follow $328 - 319 = 9$

and $346 - 328 = 18$

same as (B) (122, 131, 149)

here $131 - 122 = 9$ and $149 - 131 = 18$

and (C) (29, 38, 56)

the above pattern follow $38 - 29 = 9$ and $56 - 38 = 18$

But (D) (73, 82, 99) is not follow that pattern

$82 - 73 = 9$, and $99 - 82 = 17$

therefore it is not follow that pattern

Ans Option (D) (73, 82, 99) Ans

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General Knowledge and General Awareness

Instructions

For the following questions answer them individually

Question 51

Which of the following nutrients stores maximum energy per gram?

- A Roughage
- B Fat
- C Proteins
- D Vitamins

Answer: B

Current Affairs Question and Answers (Download PDF)

Question 52

In which of the following states is Kardang Monastery situated?

- A West Bengal
- B Karnataka
- C Sikkim
- D Himachal Pradesh

Answer: D

Question 53

According to Article 361 of the Constitution of India, a criminal proceeding cannot be instituted in a court against the _____ during his term of office.

- A Vice-President
- B Prime Minister
- C Chief Minister
- D Governor

Answer: D

Question 54

The entire content of a living cell is known as _____ which includes the cytoplasm and the nucleus.

- A cell membrane
- B protoplasm
- C mitochondria
- D lysosomes

Answer: B

Daily and Monthly Current Affairs (Download PDF)

Question 55

As per Union Budget 2019-20, Indian economy is globally the _____ largest in Purchasing Power Parity (PPP) terms.

- A second
- B fourth
- C fifth
- D third

Answer: D

Question 56

Which of the following statements is correct?

- A The first Lok Sabha was constituted in 1950.
- B The first Lok Sabha was constituted in 1948.
- C The first Lok Sabha was constituted in 1947.
- D The first Lok Sabha was constituted in 1952.

Answer: D

Question 57

Which of the following personalities is NOT among the three Indians named in the Time's 2019 list of 100 most influential people?

- A Menaka Guruswamy
- B Mukesh Ambani
- C Arundhati Katju
- D Indira Jaising

Answer: D

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Question 58

In 2019, which Indian became the youngest in the world to score a double hundred in 50- overs cricket including List A and ODIs?

- A Shubman Gill
- B Yashasvi Jaiswal
- C Abbas Ali Baig
- D Prithvi Shaw

Answer: B

Question 59

As per Ministry of Statistics and Programme Implementation, which state of India has the highest per capita income as of Sep 2019?

- A Tamil Nadu
- B Punjab
- C Goa
- D Gujarat

Answer: C

Question 60

In which state is the Sarhul festival celebrated?

- A Gujarat
- B Chhattisgarh
- C Jharkhand
- D Assam

Answer: C

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Question 61

Who was the founder of Vakataka dynasty in the third century?

- A Rudrasena
- B Pravarasena
- C Vindhyashakti
- D Nagabhata

Answer: C

Question 62

In which province of Pakistan is the site of the ancient civilisation of Mohenjo Daro located?

- A Khyber Pakhtunkhwa
- B Balochistan
- C Punjab
- D Sindh

Answer: D

Question 63

With which of the following musical instruments is the musician Sikkil Mala Chandrasekhar associated?

- A Sitar
- B Shehnai
- C Saraswati Veena
- D Flute

Answer: D

SSC CHSL Previous Papers (DOWNLOAD PDF)

Question 64

The Indian Administrative Service and the Indian Police Service are deemed to be services created by the Parliament under:

- A Article 307
- B Article 292
- C Article 301
- D Article 312

Answer: D

Question 65

What is the minimum amount of monthly pension permissible under the Atal Pension Yojana?

- A ₹1000
- B ₹2000

C ₹3000

D ₹4000

Answer: A

Question 66

Which Indian state has the second highest population after Uttar Pradesh as per Census 2011?

A West Bengal

B Bihar

C Madhya Pradesh

D Maharashtra

Answer: D

SSC CHSL Free Mock Test (Latest Pattern)

Question 67

Which British Viceroy of India was associated with the Ilbert Bill enacted in 1884?

A Lord Ripon

B Lord Northbrook

C Lord Dufferin

D Lord Napier

Answer: A

Question 68

The famous dancer T Balasaraswati was an exponent of which of the following dance forms?

A Bharatanatyam

B Kathakali

C Kathak

D Kuchipudi

Answer: A

Question 69

The weight of an object on the moon is equal to _____ of its weight on the earth.

A $\frac{1}{6}^{th}$

B $\frac{1}{8}^{th}$

C $\frac{1}{4}^{th}$

D 10^{th}

Answer: A

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Question 70

Which botanist is credited with creating one of the first widely used natural systems of plant classification?

- A August Wilhelm Eichler
- B Robert Brown
- C Joseph Dalton Hooker
- D Joseph Banks

Answer: A

Question 71

The strongest muscle (based on its weight) of the body is the masseter muscle and is located in the:

- A hand
- B jaw
- C thigh
- D chest

Answer: B

Question 72

What is the minimum amount which can be remitted through Real Time Gross Settlement (RTGS)?

- A ₹2,00,000
- B ₹1,00,000
- C ₹3,00,000
- D ₹5,00,000

Answer: A

SSC CPO Free Mock Test (Latest Pattern)

Question 73

In which ocean is the island country Fiji situated?

- A Indian Ocean
- B Pacific Ocean
- C Arctic Ocean

D Atlantic Ocean

Answer: B

Question 74

The part of the stem where a leaf arises is known as:

A carpel

B node

C tuber

D bud

Answer: B

Question 75

As of October 2019, which of the following nations is at the top of the ICC World Test Championship table?

A South Africa

B Australia

C India

D England

Answer: C

SSC CPO Previous Papers

Question 76

Who among the following has been selected for Padma Vibhushan Award under the category 'Trade and Industry-Infrastructure' for 2019?

A Anilkumar Manibhai Naik

B Grandhi Mallikarjuna Rao

C GV Sanjay Reddy

D Atul Punj

Answer: A

Question 77

Who among the following soccer stars bagged the FIFA's Best Men's Player Award 2019?

A Neymar da Silva Santos Júnior

B Lionel Messi

C Cristiano Ronaldo

D Luis Suarez

Answer: B

Question 78

Which of the following rivers has its origin in Mahabaleshwar?

- A Krishna
- B Tapti
- C Narmada
- D Kaveri

Answer: A

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Question 79

Fatwa-i-Alamgiri, a digest of Muslim laws, was written during the period of which of the following kings?

- A Nadir Shah
- B Feroz Shah Tughlaq
- C Aurangzeb
- D Tipu Sultan

Answer: C

Question 80

Who among the following British Prime Ministers had announced the Communal Award in 1932 during India's Freedom Movement?

- A James Ramsay MacDonald
- B Herbert Henry Asquith
- C David Lloyd George
- D Andrew Bonar Law

Answer: A

Question 81

Who among the following is the author of the book 'What happened'?

- A Shimon Peres
- B Shashi Tharoor
- C Jean Dreze
- D Hillary Clinton

Answer: D

SSC CGL Free Mock Test (Latest Pattern)

Question 82

Which state is the largest producer of mica in India?

- A Andhra Pradesh
- B Rajasthan
- C Madhya Pradesh
- D Jharkhand

Answer: A

Question 83

The Finance Commission is constituted by the President at the expiration of every _____ year.

- A tenth
- B fifth
- C seventh
- D sixth

Answer: B

Question 84

The President may issue a proclamation of emergency under Article 356 on receipt of a report from the _____ of a state.

- A Governor
- B Chief Justice of the High Court
- C Advocate-General
- D Speaker of the Legislative Assembly

Answer: A

SSC CGL Previous Papers (DOWNLOAD PDF)

Question 85

Which among the following is a male part of a flower?

- A Stigma
- B Stamen
- C Style
- D Pistil

Answer: B

Question 86

Lactometers (used to determine the purity of a sample of milk) and hydrometers (used to determine the density of liquids) are based on the _____ principle.

- A Archimedes
- B Uncertainty
- C Special Relativity
- D Relativity

Answer: A

Question 87

The Prime Minister and the other Ministers of the Indian Union are appointed by the President under _____ of the Constitution of India.

- A Article 70
- B Article 79
- C Article 85
- D Article 75

Answer: D

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Question 88

Name the Sikh Guru who developed the Gurmukhi script for writing the Punjabi language?

- A Guru Hargobind
- B Guru Tegh Bahadur
- C Guru Angad
- D Guru Ram Das

Answer: C

Question 89

In which of the following parts of the human digestive system is the digestion of food completed?

- A Mouth
- B Small intestine
- C Stomach
- D Large intestine

Answer: B

Question 90

Which leader of India's freedom movement was called the 'Grand Old Man of India'?

- A Bal Gangadhar Tilak

- B Dadabhai Naoroji
- C Lala Lajpat Rai
- D Maulana Abul Kalam Azad

Answer: B

General Science Notes (Download PDF)

Question 91

In which city is the head office of the Insurance Regulatory and Development Authority of India (IRDAI) situated?

- A Kolkata
- B New Delhi
- C Mumbai
- D Hyderabad

Answer: D

Question 92

Which among the following gases is also known as 'Laughing Gas'?

- A Carbon dioxide
- B Nitrogen oxide
- C Carbon monoxide
- D Sulphur dioxide

Answer: B

Question 93

Which among the following former cricketers has been elected unopposed as the President of BCCI in 2019?

- A Sourav Ganguly
- B Dilip Vengsarkar
- C Sachin Tendulkar
- D Sunil Gavaskar

Answer: A

SSC Stenographer Previous Papers (DOWNLOAD PDF)

Question 94

Which female golfer has become the youngest Indian woman to win a Ladies European Tour (LET) title?

- A Diksha Dagar

- B Vani Kapoor
- C Amandeep Drall
- D Aditi Ashok

Answer: A

Question 95

Who among the following was the first army officer of Independent India to be conferred the rank of Field Marshal?

- A Sam Manekshaw
- B Gopal Gurunath Bewoor
- C Om Prakash Malhotra
- D Tapishwar Narain Raina

Answer: A

Question 96

_____ is the highest peak of the Satpura range.

- A Amarkantak
- B Jarga
- C Dhupgarh
- D Delwara

Answer: C

SSC Stenographer Previous Papers (Latest Pattern)

Question 97

Which one of the following is NOT a natural fibre?

- A Terylene
- B Jute
- C Flax
- D Wool

Answer: A

Question 98

The blood vessels that carry blood from the heart to the various parts of the body are called:

- A arteries
- B capillaries
- C veins

D septum

Answer: A

Question 99

As per Census 2011, which state of India has the lowest sex ratio, i.e., number of females per 1000 males?

- A Haryana
- B Bihar
- C Maharashtra
- D Uttarakhand

Answer: A

SSC CGL Tier-2 Previous Papers PDF

Question 100

Which of the following Indian wrestler has been ranked world number one in 86 kg category in the rankings issued in September 2019 by the International Wrestling Federation?

- A Rahul Aware
- B Ravi Dahiya
- C Deepak Punia
- D Bajrang Punia

Answer: C

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Quantitative Aptitude

Instructions

For the following questions answer them individually

Question 101

The speed of train A is 16 km/h less than the speed of train B. To cover a distance of 384 km, B takes 4 hours less time than A. What is the speed (in km/h) of train B?

- A 50
- B 45
- C 32
- D 48

Answer: D

Explanation:

Let B speed x Km/hr and time taken by A is t hr

$$\text{For B } x = t - 4$$

$$\text{Again for A } x - 16 = t$$

we the value of x and solve it

$$\Rightarrow t - 4 - 16 = t$$

$$\Rightarrow \frac{384 - 16t + 64}{t - 4} = \frac{384}{t}$$

$$\Rightarrow 384t - 16t^2 + 64t = 384t - 384 \times 4$$

$$\Rightarrow 16t^2 - 64t - 1536 = 0$$

$$\Rightarrow t^2 - 4t - 96 = 0$$

$$\Rightarrow (t - 12)(t + 2) = 0$$

$$\Rightarrow t = 12, t = -2$$

$$\text{then speed of train B} = \frac{384}{12 - 4}$$

$$\Rightarrow \frac{384}{8} = 48 \text{ km/hr Ans}$$

SSC Study Material

Question 102

If $66\frac{2}{3}\%$ of 75% of one-eighth of a certain number is 179, then $33\frac{1}{3}\%$ of three-fourth of that number is:

- A 537
- B 859.2
- C 716
- D 787.6

Answer: C

Explanation:

Let the certain number = n

$$\text{then according to question } n \times 66\frac{2}{3}\% \times 75\% \times \frac{1}{8} = 179$$

$$\Rightarrow n \times \frac{200}{300} \times \frac{3}{4} \times \frac{1}{8} = 179$$

$$\Rightarrow n \times \frac{1}{16} = 179$$

$$\Rightarrow n = 2864$$

$$\text{then that number} = 2864 \times \frac{100}{300} \times \frac{3}{4}$$

the number = 716 Ans

Question 103

In $\triangle ABC$, $AB = c$ cm, $AC = b$ cm and $CB = a$ cm. If $\angle A = 2\angle B$, then which of the following is true?

- A $a^2 = b^2 - bc$
- B $a^2 = b^2 + ac$
- C $a^2 = b^2 + bc$
- D $a^2 = b^2 - ac$

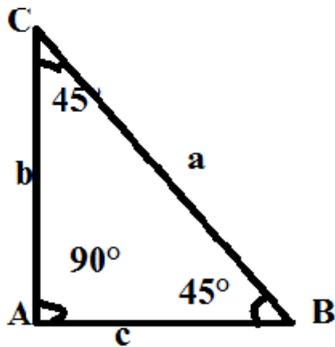
Answer: C

Explanation:

Given that $\triangle ABC$, $AB = c$ cm, $AC = b$ cm and $CB = a$ cm. If $\angle A = 2\angle$

then we check Option

draw the diagram from the given information is given below



by pythagorus theorem

$$a^2 = b^2 + c^2$$

$$\Rightarrow a^2 = b^2 + c \times c$$

$$\Rightarrow a^2 = b^2 + cb(c=b)$$

put the value we can obtain

$$\Rightarrow a^2 = b^2 + c^2$$

therefore option (C) Ans

Question 104

If $2x^2 + 7x - 2 = 1, x > 0$, then what is the value of $x^3 + \frac{1}{x^3}$?

- A $\frac{3}{8}\sqrt{17}$
- B $\frac{5}{8}\sqrt{17}$
- C $\frac{3}{4}\sqrt{17}$
- D $\frac{5}{4}\sqrt{17}$

Answer: B

Explanation:

Given that $2x^2 + 7x - 2 = 1$

$$\Rightarrow 8x = 2x^2 + 7x - 2$$

$$\Rightarrow 2x^2 - x - 2 = 0$$

$$\Rightarrow x - 2 - x = 0$$

$$\Rightarrow x - x = 2$$

$$\text{then } x + x = \sqrt{(x - x)^2 + 4xx}$$

$$\Rightarrow \sqrt{4 + 4}$$

$$\Rightarrow \frac{\sqrt{17}}{2}$$

$$\text{Now } x^3 + x^3 = (x + x)^3 - 3xx(x + x)$$

$$\Rightarrow \left(\frac{\sqrt{17}}{2}\right)^3 - 3 \cdot \frac{\sqrt{17}}{2}$$

$$\Rightarrow 17 \cdot \frac{\sqrt{17}}{8} - 3 \cdot \frac{\sqrt{17}}{2}$$

$$\Rightarrow 8\sqrt{17} \text{ Ans}$$

SSC Daily Practice Set

Question 105

The average of eleven numbers is 68. The average of the first four numbers is 78 and that of the next four numbers is 63. The 9th number is two times the 11th number and the 10th number is less than the 11th number. What is the average of the 9th and 11th numbers?

- A 70.1
- B 72.6
- C 72.2
- D 70.5

Answer: D

Explanation:

Average of 11th number = 68

sum of 11th number = $11 \times 68 = 748$

average of 1st four number = 78

sum of 1st four number = $78 \times 4 = 312$

average of next four number = 63

sum of next four number = $63 \times 4 = 252$

Let the 11th number = x

so 9th number = $2x$

10th number is less than 11th number

$$\Rightarrow 748 - (312 + 252) = 184$$

$$\text{then } 9^{\text{th}} + 10^{\text{th}} + 11^{\text{th}} = 184$$

$$\Rightarrow 2x + (x - 4) + x = 184$$

$$\Rightarrow 4x - 4 = 184$$

$$\Rightarrow x = 47$$

$$\text{hence Average } 9^{\text{th}} \text{ and } 11^{\text{th}} = \frac{47 + 2 \times 47}{2}$$

$$\Rightarrow \frac{47 + 94}{2}$$

$$\Rightarrow \frac{188}{2}$$

$$\Rightarrow 70.5 \text{ Ans}$$

Question 106

In an office, 70% of the total number of employees are females. 80% of the total number of employees, including 85 males, got promotion. If there are 105 female employees, then what percentage of female employees got promotion?

A 40%

B $33\frac{1}{3}\%$

C 35%

D 30%

Answer: B

Explanation:

105 female employee which is 70% of the total employee

$$\text{so the total number of employee} = 105 \times \frac{10}{7}$$

$$\Rightarrow 150$$

80% employee got a promotion so number of females who got a promotion = $120 - 85 = 35$

$$\text{so the \% of female employee got is } \frac{35}{105} \times 100$$

$$\Rightarrow 33\frac{1}{3}\% \text{ Ans}$$

Question 107

A certain sum (in ₹) is invested at simple interest at $x\%$ p.a. for 5 years. Had it been invested at $(x + 5)\%$ p.a., the simple interest would have been ₹9,200 more than the earlier one. What is the sum?

A ₹36,800

B ₹35,800

C ₹36,400

D ₹40,000

Answer: A

Explanation:

$$\text{We know that simple interest (SII)} = \frac{PRT}{100}$$

where P = principle , R= rate , t = time

According to question Simple intrest (SI) = $\frac{Px5}{100}$ (let Rate = x)..... equation (1)

2nd condition $Simpleintrest(SI) + 9200 = \frac{P(x + 5)5}{100}$ equation (2)

then equation (2) - equation (1)

$$\Rightarrow 9200 = \frac{P \times 5 \times 5}{100}$$

$$P = 9200 \times 4$$

$$P = Rs36800 \text{Ans}$$

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Question 108

When 3738, 5659 and 9501 are divided by the greatest possible number x , the remainder in each case is y . What is the sum of x and y ?

- A 3738
- B 3673
- C 3783
- D 3637

Answer: A

Explanation:

From the given numbers 3738, 5659, 9501

$$5659 - 3738 = 1921, 9501 - 5659 = 3842, 9501 - 3738 = 5763$$

then HCF of 1921, 3842, 5763 is 1921

$$\text{so } x = 1921$$

when we will divide 3738 with 1921 remainder will be 1817 which is same for other two number also

$$\text{so } y = 1817$$

$$x + y = 1921 + 1817 = 3738 \text{ Ans}$$

Question 109

Let x be the least number divisible by 13, such that when x is divided by 4, 5, 6, 7, 8 and 12, the remainder in each case is 2. The sum of the digits of x is:

- A 9
- B 8
- C 11
- D 10

Answer: C

Explanation:

From the given 4, 5, 6, 7, 8, 12

$$\text{then } 4 = 2 \times 2, 5 = 5, 6 = 2 \times 3, 7 = 7, 8 = 2 \times 2 \times 2, 12 = 2 \times 2 \times 3$$

then $LCM = 2 \times 2 \times 2 \times 5 \times 3 \times 7$

$\Rightarrow 840$

so the number = $840k + 2$ (according to question)

which divisible by 13

put $k = 1$ number = 842 (not divisible by 13)

$k = 2$ number = 1682 (not divisible)

$k = 3$ number = 2522 (which is divisible)

so $x = 2522$

sum of digits = $2+5+2+2 = 11$ Ans

Question 110

In $\triangle ABC$, $\angle C = 90^\circ$ and D is a point on CB such that AD is the bisector of $\angle A$. If $AC = 5\text{cm}$ and $BC = 12\text{cm}$, then what is the length of AD ?

A $\frac{10}{3}$ cm

B $\frac{20}{3}$ cm

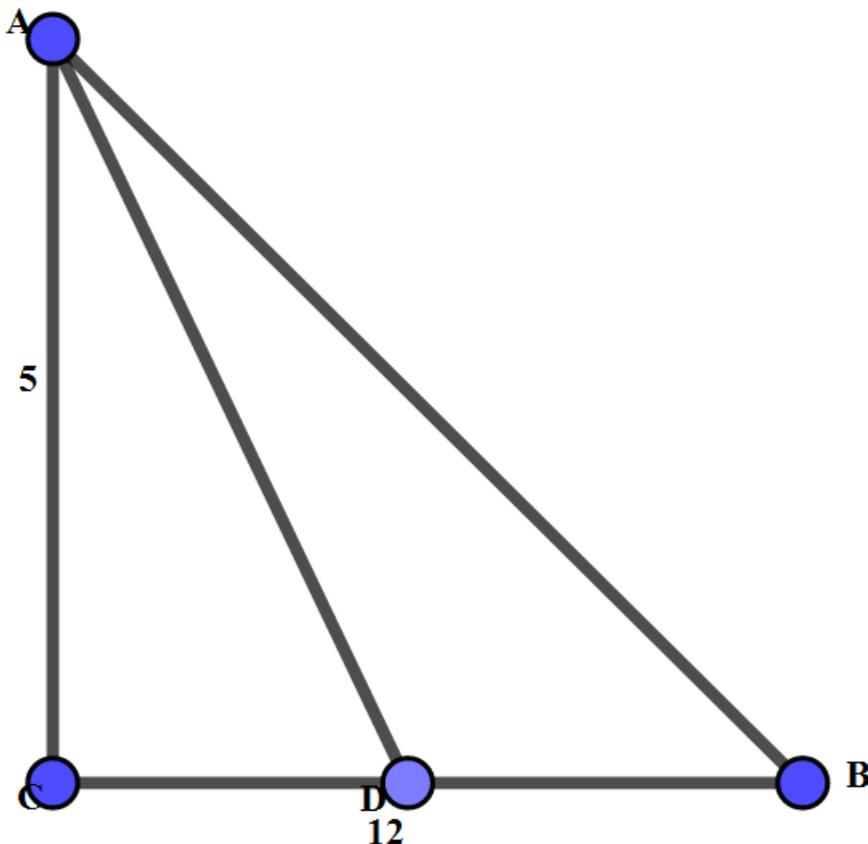
C $\frac{5\sqrt{13}}{3}$ cm

D $\frac{5\sqrt{13}}{6}$ cm

Answer: C

Explanation:

From the above question, we draw the diagram is given below



From the above question

$$\tan A = \frac{12}{5}$$

$$A = \tan^{-1} \left(\frac{12}{5} \right)$$

$$\text{then } \cos \left(\frac{A}{2} \right) = \frac{5}{AD}$$

$$\Rightarrow AD = \frac{5}{\cos \left(\frac{A}{2} \right)}$$

$$\Rightarrow AD = \frac{5}{\cos \left(\frac{\tan^{-1} \left(\frac{12}{5} \right)}{2} \right)}$$

$$\Rightarrow AD = \frac{5\sqrt{13}}{3}$$

$$\Rightarrow AD = 6.009$$

then Option (C) Ans

Current Affairs Question and Answers (Download PDF)

Question 111

A is 40% more than B and is 60% less than C. If C is 60% more than D, then which of the following is true?

- A B is 36% less than D.
- B C is 60% more than B.
- C D is 10.4% more than A.
- D A is 54% less than C.

Answer: A

Question 112

The marked price of an article is ₹800. A retailer buys it for ₹540 after getting two successive discounts. The first discount is 25%. What is the second discount?

- A 15%
- B 12%
- C 10%
- D 8%

Answer: C

Explanation:

$$\text{Price after the first discount} = 800 - \frac{25}{100} \times 800$$

$$\Rightarrow \text{Rs } 600$$

$$\text{Let second discount} = x\%$$

$$\text{then } 600 - \frac{x}{100} \times 600 = 540 \quad (\text{according to question})$$

$$\Rightarrow \frac{100-x}{100} \times 600 = 540$$

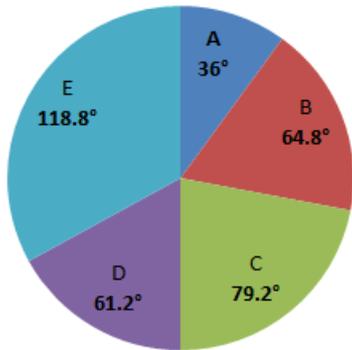
$$\Rightarrow 100 - x = 90$$

$$\Rightarrow x = 10\% \text{ Ans}$$

Question 113

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

Distribution (degree wise) of students studying in school A,B,C,D & E
Total number of students-9000



The number of students in school E exceeds the total number of students in schools A and B by x, where x lies between:

- A 420 and 440
- B 400 and 420
- C 440 and 460
- D 460 and 480

Answer: C

Explanation:

We need to find $X = E - (A + B)$

total members of student = 9000

$$E = 9000 \times \frac{118.8}{360}$$

$$\Rightarrow 900 \times \frac{1188}{360}$$

$$\Rightarrow 2970$$

$$A = \frac{36}{360} \times 9000 = 900$$

$$B = 9000 \times \frac{64.8}{360}$$

$$\Rightarrow 90 \times \frac{648}{36}$$

$$\Rightarrow 1620$$

$$X = E - (A + B)$$

$$\Rightarrow 2970 + (900 + 1620)$$

$$\Rightarrow 450$$

then we can say x is lies between 440 and 460 from given option Ans

Daily and Monthly Current Affairs (Download PDF)

Question 114

If $\operatorname{cosec} \theta = 1.25$, then $\frac{4 \tan \theta - 5 \cos \theta + 1}{\sec \theta + 4 \cot \theta - 1} = ?$

- A $\frac{1}{2}$
- B $\frac{9}{10}$
- C 2

D $\frac{10}{11}$

Answer: D

Explanation:

Given that $\operatorname{cosec} \theta = 1.25 = \frac{5}{4}$

so $\sin \theta = \frac{4}{5}$

then $\cos \theta = \frac{3}{5}$, $\tan \theta = \frac{4}{3}$, $\cot \theta = \frac{3}{4}$

Hence $\frac{4 \tan \theta - 5 \cos \theta + 1}{\sec \theta + 4 \cot \theta - 1}$

$\rightarrow \frac{4 \times \frac{4}{3} - 5 \times \frac{3}{5} + 1}{\frac{5}{3} + 4 \times \frac{3}{4} - 1}$

$\rightarrow \frac{\frac{16}{3} - 3 + 1}{\frac{5}{3} + 3 - 1}$

$\rightarrow \frac{16 - 6}{5 + 6}$

$\rightarrow \frac{10}{11}$ Ans

Question 115

The volume of a solid right circular cylinder is 5236 cm^3 , and its height is 34 cm. What is its curved surface area (in cm^2)? (Take $\pi = \frac{22}{7}$)

A 1804

B 1496

C 1573

D 1650

Answer: B

Explanation:

The volume of a right circular cylinder is 5236 cm^3

and its height is 34 cm

then $V = 5236$

$\rightarrow \pi r^2 h = 5236$

$\rightarrow r^2 = \frac{5236}{\frac{22}{7} \times 34}$

$\rightarrow r^2 = 49$

$\rightarrow r = 7$

so curved surface area = $2\pi r h$

$\rightarrow 2 \times \frac{22}{7} \times 7 \times 34$

$\rightarrow 1496 \text{ cm}^2$ Ans

Question 116

If the 5-digit number 538xy is divisible by 3, 7 and 11, then the value of $(x^2 + y^2)$ is:

A 10

B 17

C 25

D 13

Answer: D

Explanation:

As divisible by 3, 7, 11

means divisible by $3 \times 7 \times 11$

$\Rightarrow 231$

then number 231×233

$\Rightarrow 53823$

Hence $x = 2, y = 3$

then $(x^2 + y^2) = 2^2 + 3^2$

$\Rightarrow 4 + 9$

$\Rightarrow 13$ Ans

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Question 117

The value of $\frac{(0.13)^2 + (0.21)^2}{(0.39)^2 + 81(0.07)^2} \div \frac{(2.4)^4 + 3 \times (11.52) + 9}{(2.4)^6 + 6(2.4)^4 + 3 \times (17.28)}$ lies between:

- A 0.5 and 0.6
- B 0.4 and 0.5
- C 0.6 and 0.7
- D 0.7 and 0.8

Answer: C

Explanation:

Given that

$$\frac{(0.13)^2 + (0.21)^2}{(0.39)^2 + 81(0.07)^2} \div \frac{(2.4)^4 + 3 \times (11.52) + 9}{(2.4)^6 + 6(2.4)^4 + 3 \times (17.28)}$$

$$\Rightarrow \frac{(0.13)^2 + (0.21)^2}{(0.39)^2 + 81(0.07)^2} \times \frac{(2.4)^6 + 6(2.4)^4 + 3 \times (17.28)}{(2.4)^4 + 3 \times (11.52) + 9}$$

$$\Rightarrow \frac{0.0169 + 0.0441}{0.1521 + 81 \times 0.0049} \times \frac{191.10 + 33.1776 + 51.84}{5.76 + 34.56 + 9}$$

$$\Rightarrow \frac{0.061}{0.549} \times \frac{276.1176}{49.32}$$

$$\Rightarrow \frac{16.84317}{27.07668}$$

$$\Rightarrow 0.6222$$

then It lies between 0.6 and 0.7

therefore Option (C) 0.6 and 0.7 Ans

Question 118

A sum of ₹5,000 amounts to ₹7,200 in 8 years at a certain rate per cent p.a, interest compounded yearly. What will be the compound interest on a sum of ₹6,550 in 4 years at the same rate of interest?

- A ₹1,290
- B ₹1,285
- C ₹1,415
- D ₹1,310

Answer: D

Explanation:

$$\text{From the given question } \frac{7200}{5000} = (1 + \frac{r}{100})^8$$

$$\Rightarrow \frac{36}{25} = (1 + \frac{r}{100})^8$$

$$\Rightarrow (\frac{6}{5})^2 = [(1 + \frac{r}{100})^4]^2$$

$$\Rightarrow (1 + \frac{r}{100})^4 = \frac{6}{5}$$

it will be used in 2nd condition

$$A = 6550 (1 + \frac{r}{100})^4$$

$$\Rightarrow 6550 \times \frac{6}{5}$$

$$\Rightarrow 7860$$

we know that compound interest (C I) = A - p

$$\text{compound interest} = 7860 - 6550 = 1310 \text{ Rs Ans}$$

Question 119

Pipes A and B are emptying pipes and can empty a tank in 6 hours and 16 hours, respectively. C is a filling pipe. All the three pipes were opened together. They took 80 minutes to empty $\frac{5}{18}$ th of the tank. Pipe C alone can fill the tank in:

A 40 hours

B 48 hours

C 36 hours

D 42 hours

Answer: B

Explanation:

Let the volume of the tank be V

$$\text{speed of pipe A} = \frac{V}{6}$$

$$\text{speed of pipe B} = \frac{V}{16}$$

let the speed of pipe C be = $\frac{V}{x}$ (where x is the time taken by pipe C to fill the tank)

$$\text{According to question } \frac{5}{18}V \{ \frac{V}{6} + \frac{V}{16} - \frac{V}{x} \} = \frac{80}{60}V$$

$$\Rightarrow \frac{5}{18}V \times \frac{48x}{V(8x + 13x - 48)} = \frac{4}{3}$$

$$\Rightarrow \frac{40x}{3} \times (11x - 48) = \frac{4}{3}$$

$$\Rightarrow 40x = 44x - 192$$

$$\Rightarrow 4x = 192$$

$$\Rightarrow x = \frac{192}{4}$$

$$\Rightarrow x = 48 \text{ hours time taken by pipe C Ans}$$

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Question 120

If $2\sin \theta + 15 \cos^2 \theta = 7$, $0^\circ < \theta < 90^\circ$ then what is the value of $\frac{3 - \tan \theta}{2 + \tan \theta}$?

A $\frac{1}{4}$

B $\frac{5}{8}$

C $\frac{1}{2}$

D $\frac{3}{4}$

Answer: C

Explanation:

Given that $2 \sin \theta + 15 \cos^2 \theta = 7$

$\Rightarrow 2 \sin \theta + 15 (1 - \sin^2 \theta) - 7 = 0$

$\Rightarrow 15 \sin^2 \theta - 2 \sin \theta - 8 = 0$

$\Rightarrow 15 \sin^2 \theta + 10 \sin \theta - 12 \sin \theta - 8 = 0$

$\Rightarrow (3 \sin \theta + 2)(5 \sin \theta - 4) = 0$

$\Rightarrow \sin \theta = \frac{4}{5}$, $\sin \theta = -\frac{2}{3}$

then valid value $\sin \theta = \frac{4}{5}$

so $\cos \theta = \frac{3}{4}$, $\tan \theta = \frac{4}{3}$

hence $\frac{3 - \tan \theta}{2 + \tan \theta}$

$\Rightarrow \frac{3 - \frac{4}{3}}{2 + \frac{4}{3}}$

$\Rightarrow \frac{9 - 4}{6 + 4}$

$\Rightarrow \frac{5}{10}$

$\Rightarrow \frac{1}{2}$ Ans

Question 121

A can finish one-third of a work in 5 days, B can finish $\frac{2}{5}$ th of the same work in 10 days and C can finish 75% of the same work in 15 days. They work together for 6 days. The remaining work will be finished by B alone in:

A 3 days

B 2 days

C 5 days

D $\frac{1}{2}$ days

Answer: D

Explanation:

A can finish complete work = $3 \times 5 = 15$ days

B can finish complete work = $\frac{5}{2} \times 10 = 25$ days

C can finish complete work = $\frac{9}{3} \times 15 = 20$ days

work completed by A + B + C in 6 days

$\Rightarrow (\frac{1}{15} + \frac{1}{25} + \frac{1}{20}) \times 6$

$\Rightarrow (\frac{20 + 12 + 15}{300}) \times 6$

$\Rightarrow \frac{47}{50}$

then Remaining work = $1 - \frac{47}{50}$

$\Rightarrow \frac{3}{50}$

Remaining work will finish B = $\frac{3}{50} \times 25$ days

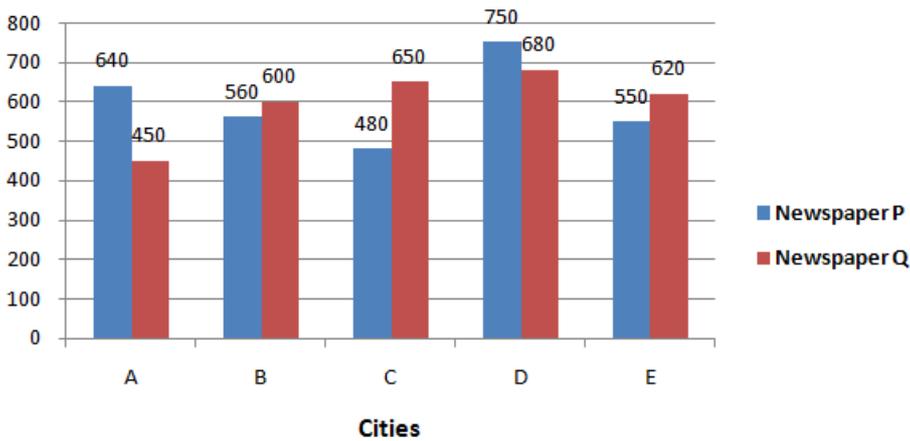
$\Rightarrow \frac{3}{2}$ days

$\Rightarrow 1 \frac{1}{2}$ days Ans

Question 122

Study the given graph and answer the question that follows.

Daily sales (in thousands) of newspapers P and Q in five cities



In which city the daily sales of newspaper P is 1.25 times the average daily sales of newspaper in cities A, B, C, D and E?

A D

B A

C B

D C

Answer: A

Explanation:

$$\text{Average of P newspaper} = \frac{640+560+480+750+550}{5}$$

$$\Rightarrow \frac{2980}{5}$$

$$\Rightarrow 596$$

To find which is 1.25 times

Dividing every city by average

$$\text{City A} = \frac{640}{596} = 1.07$$

$$\text{City B} = \frac{560}{596} = 0.93$$

$$\text{City C} = \frac{480}{596} = 0.80$$

$$\text{City D} = \frac{750}{596} = 1.25$$

$$\text{City E} = \frac{550}{596} = 0.83$$

Therefore, D is the city Ans

SSC CHSL Previous Papers (DOWNLOAD PDF)

Question 123

If a discount of 10% is allowed on the marked price of an article, a shopkeeper gets a profit of 25%. If he offers a discount of 25% on the marked price of the same article, then his percentage profit/loss will be:

A $\frac{1}{6}\%$ profit

B 4% loss

C $\frac{1}{6}\%$ loss

D 4% profit

Answer: A

Explanation:

Let the Market price of the article Rs 100

Discount = 10%

% Selling price = 90 % of Rs 100

$\rightarrow \frac{90}{100} \times 100$

$\rightarrow 90$

profit = 25%

so cost price = $90 \times \frac{100}{125}$

\rightarrow Rs 72

Now, if the discount is 25% then

selling price = $\frac{75}{100} \times 100$

$\rightarrow 75$

Required profit % = $\frac{75-72}{72} \times 100$

$\rightarrow \frac{3}{72} \times 100$

$\rightarrow \frac{25}{6}$

$\rightarrow 4 \frac{1}{6}\%$ % Ans

Question 124

The lengths of the parallel sides of a trapezium are 51 cm and 21 cm, and that of each of the other two sides is 39 cm. What is the area (in cm^2) of the trapezium?

A 1260

B 1296

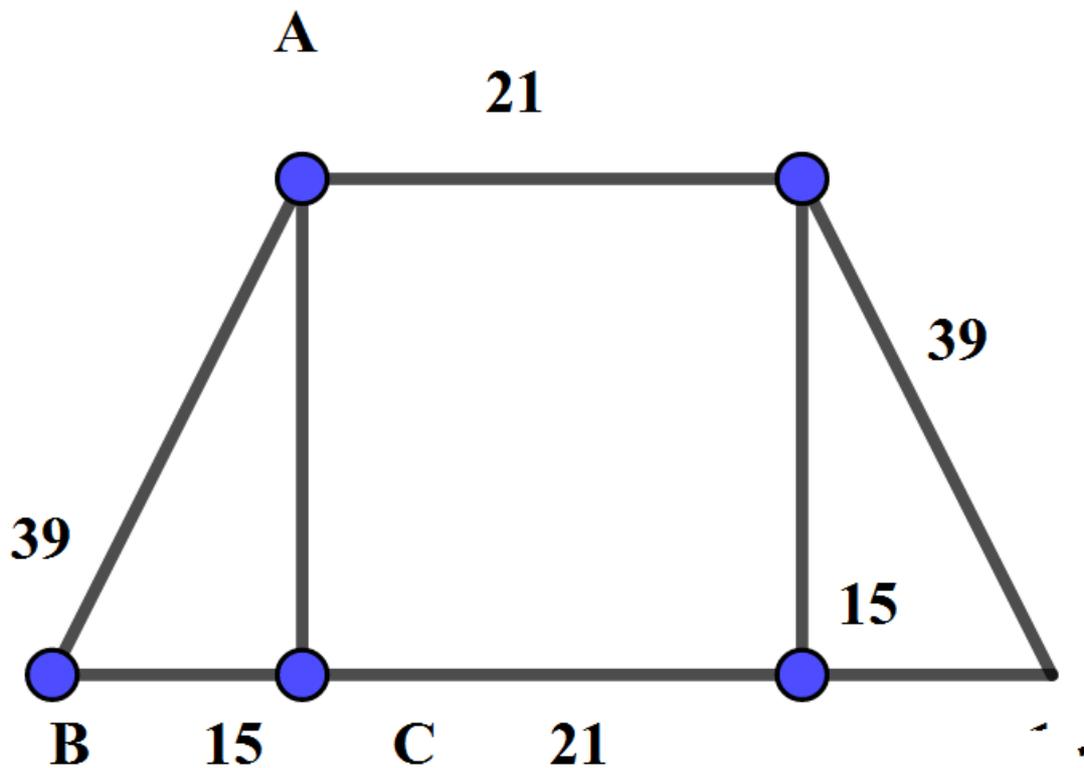
C 1152

D 1206

Answer: B

Explanation:

We draw the trapezium is given below



From the above diagram, we apply the Pythagoras theorem in $\triangle ABC$

$$\text{then } (AC)^2 = (39)^2 - (15)^2$$

$$\Rightarrow (AC)^2 = 1521 - 225$$

$$\Rightarrow (AC)^2 = 1296$$

$$\Rightarrow AC = 36$$

then Area of trapezium = $\frac{1}{2} \times (\text{sum of sides}) \times (\text{Distance between them})$

$$= \frac{1}{2} \times (21+51) \times (36)$$

$$= \frac{1}{2} \times 72 \times 36$$

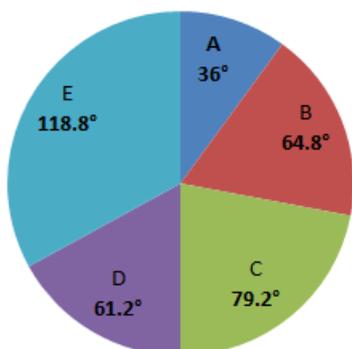
$$= 36 \times 36$$

$$= 1296 \text{ cm}^2 \text{ Ans}$$

Question 125

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

Distribution (degree wise) of students studying in school A,B,C,D & E
Total number of students-9000



The total number of students in schools D and E is what percentage more than the total number of students in schools B and C?

- B 35
- C 30
- D 25

Answer: D

Explanation:

The total degree D and E = $118.8^\circ + 61.2^\circ = 180^\circ$

so student of D and E = $\frac{180}{360} \times 9000$

$\rightarrow 4500$

again total degree of B and C = $64.8^\circ + 79.2^\circ = 144^\circ$

so student of B and C = $\frac{144}{360} \times 9000$

$\rightarrow 3600$

% more than total number of students B and C = $\frac{4500-3600}{3600} \times 100$

$\rightarrow \frac{900}{3600} \times 100$

$\rightarrow 25\%$ Ans

SSC CHSL Free Mock Test (Latest Pattern)

Question 126

Pipes A and B together can fill a tank in 16 hours, where as pipe C alone can empty the full tank in 24 hours. A and B were opened together for 10 hours and then closed. Pipe C was then opened. The tank will now be emptied by C in:

- A 10 hours
- B 12 hours
- C 15 hours
- D 18 hours

Answer: C

Explanation:

let pipe A = a, pipe B = b and pipe C = c

According to question $\frac{1}{a} + \frac{1}{b} = \frac{1}{16}$

and $\frac{1}{c} = -\frac{1}{24}$

pipe a and pipe b both open 10 hour together and t time taken empty by pipe c

so $(\frac{1}{a} + \frac{1}{b}) \cdot 10 - t \cdot \frac{1}{c} = 0$

$\rightarrow \frac{10}{16} = \frac{t}{24}$

$\rightarrow t = 15$ hours Ans

Question 127

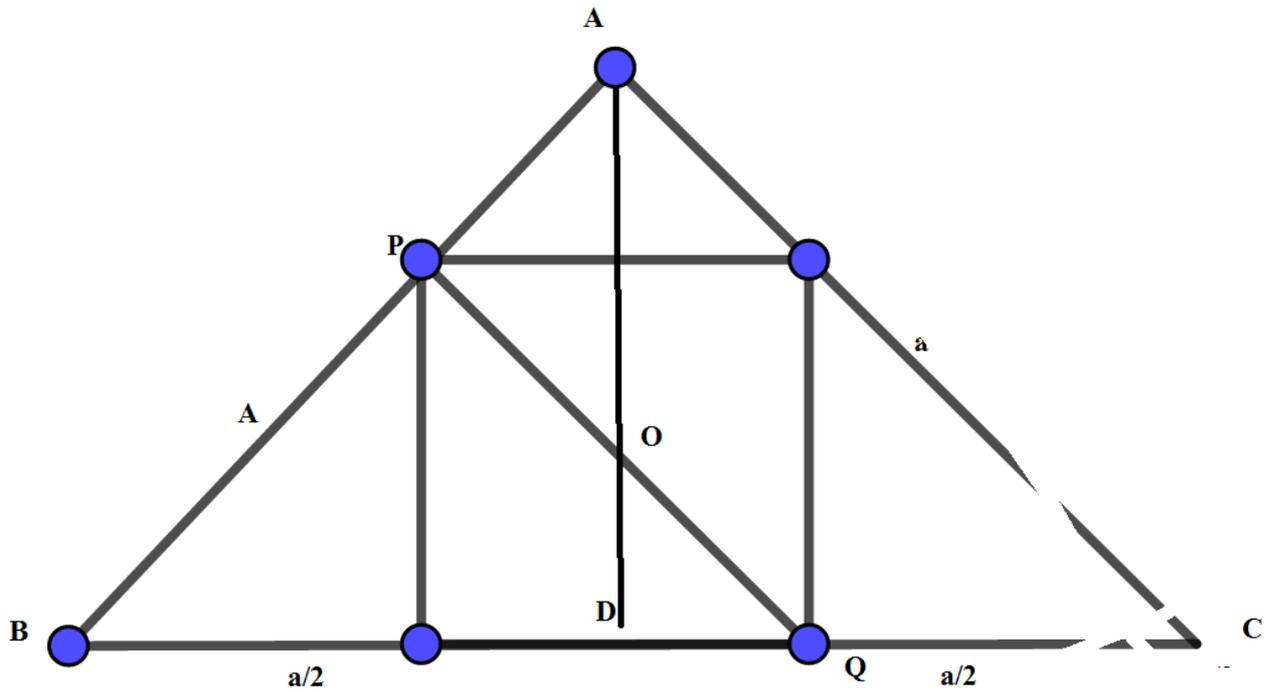
A circle is inscribed in an equilateral triangle of side 24 cm. What is the area (in cm^2) of a square inscribed in the circle?

- A 48
- B 72
- C 54
- D 96

Answer: D

Explanation:

According to a question, we draw the diagram is given below



Side of triangle = a

$$\text{then } (AB)^2 = (AD)^2 + (BD)^2$$

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

$$\Rightarrow AD = \frac{\sqrt{3}}{2} a$$

Since AD is median. So centroid O divides each median in 2:1 ratio.

$$AO : OD = 2:1$$

$$AO = 2x, OD = x$$

$$AD = 3x$$

$$\frac{\sqrt{3}}{2} a = 3x$$

$$x = \frac{\sqrt{3}}{6} a$$

$$OD = \frac{\sqrt{3}}{6} a$$

$$PQ = 2 \times \text{radius of circle}$$

$$= 2 \times \frac{\sqrt{3}}{6} a = \frac{\sqrt{3}}{3} a = \frac{a}{\sqrt{3}}$$

$$\text{Now side of square} = \frac{\text{diagonal}}{\sqrt{2}}$$

$$= \frac{a}{\sqrt{3} \sqrt{2}} = \frac{a}{\sqrt{6}}$$

$$\text{Area of Square A} = (\text{side})^2$$

$$= \left(\frac{a}{\sqrt{6}}\right)^2$$

$$= \frac{a^2}{6}$$

$$= \frac{24 \times 24}{6}$$

$$= 96 \text{ square unit Ans}$$

Question 128

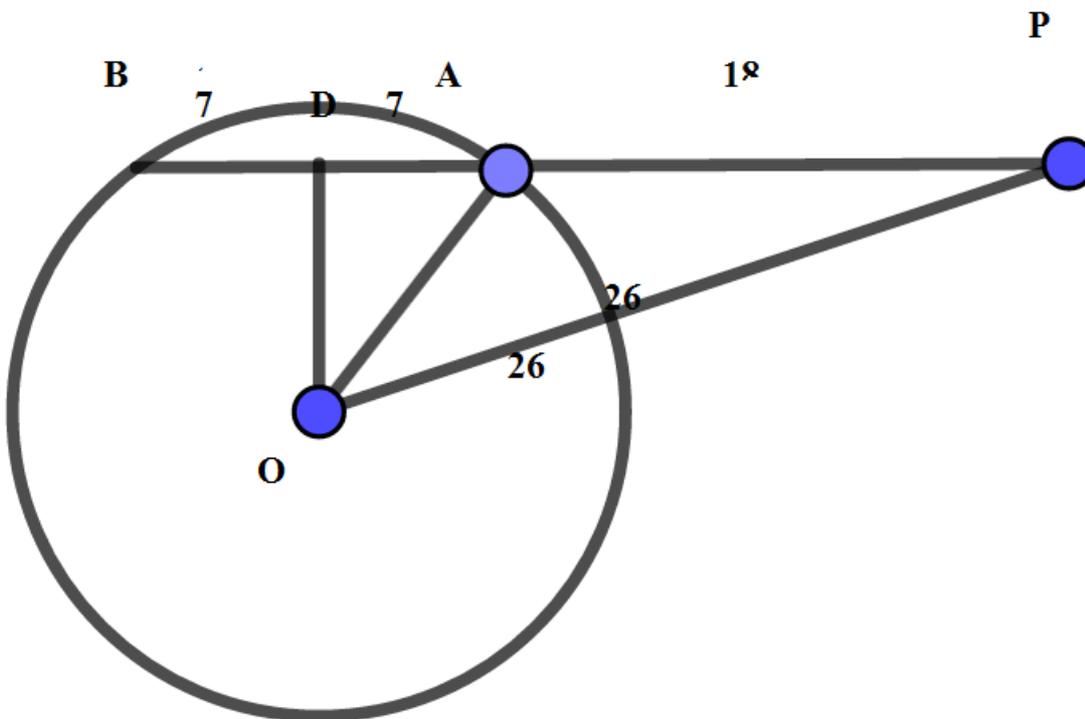
P is a point outside a circle and is 26 cm away from its centre. A secant PAB drawn from intersects the circle at points A and B such that PB = 32 cm and PA = 18 cm. The radius of the circle (in cm) is:

- A 12
- B 8
- C 10
- D 13

Answer: C

Explanation:

From the given question we draw the diagram



OA is Radius of circle PA = 18cm and PB = 32cm

then AB = 32 - 18 = 14

then BD = AD = 7 cm

In the $\triangle ODP$,

$$(OD)^2 = (OP)^2 - (DP)^2$$

$$\Rightarrow (OD)^2 = (26)^2 - (25)^2$$

$$\Rightarrow (OD)^2 = 676 - 625$$

$$\Rightarrow OD = \sqrt{51}$$

then In $\triangle OAD$,

$$r^2 = (OD)^2 + (AD)^2$$

$$\Rightarrow r^2 = (\sqrt{51})^2 + (7)^2$$

$$\Rightarrow r^2 = 51 + 49$$

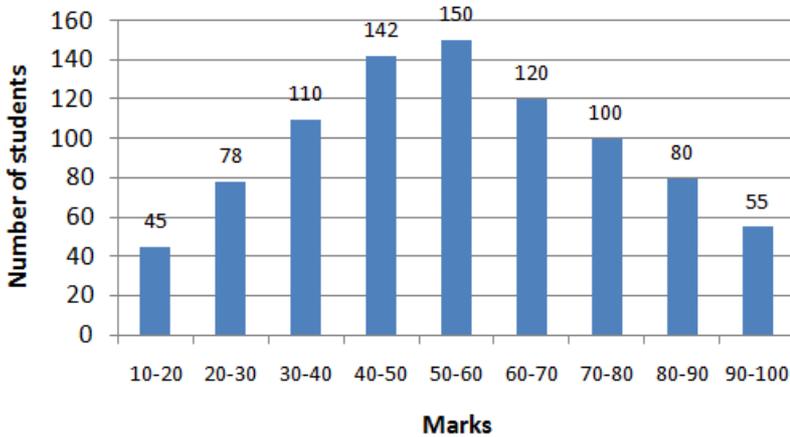
$$\Rightarrow r^2 = 100$$

Free SSC Study Material (18,000 Solved Questions)

Question 129

Study the given graph and answer the question that follows.

Distribution of marks obtained by students in an examination



If 60% of the total number of students obtaining 50 marks or more but less than 70 marks are girls and 55% of the total number of students obtaining 70 marks or more but less than 90 marks are also girls, then the total number of girls obtaining 50 marks or more but less than 90 marks is:

- A 236
- B 257
- C 261
- D 207

Answer: C

Explanation:

From the given DI $50-60 = 150$ and $60-70 = 120$

then total student = $150 + 120 = 270$

according to question girls = $270 \times .60 = 162$

again range $70-80 = 100$ student and $80-90 = 80$ student

then total student = $100 + 80 = 180$

according to question girls = $180 \times 0.55 = 99$

so total girls = $162 + 99 = 261$ Ans

Question 130

A right circular cone of largest volume is cut out from a solid wooden hemisphere. The remaining material is what percentage of the volume of the original hemisphere?

- A 50%
- B 75%
- C $\frac{1}{3}\%$
- D $\frac{2}{3}\%$

Answer: A

Explanation:

The volume of hemisphere = $\frac{2}{3} \pi r^3$

volume of cone = $\frac{1}{3} \pi r^2 h$

where $r = h$

volume of cone = $\frac{1}{3} \pi r^2 r - \frac{1}{3} \pi r^3$

so volume of remaining = $\frac{2}{3} \pi r^3 - \frac{1}{3} \pi r^3$

$\Rightarrow \frac{1}{3} \pi r^3$

% of remaining material = $\frac{\frac{1}{3} \pi r^3}{\frac{2}{3} \pi r^3} \times 100$

$\Rightarrow \frac{1}{2} \times 100$

$\Rightarrow 50$ Ans %

Question 131

An observer who is 1.62 m tall is 45 m away from a pole. The angle of elevation of the top of the pole from his eyes is 30° . The height (in m) of the pole is closest to:

- A 26.2
- B 27.6
- C 25.8
- D 26.8

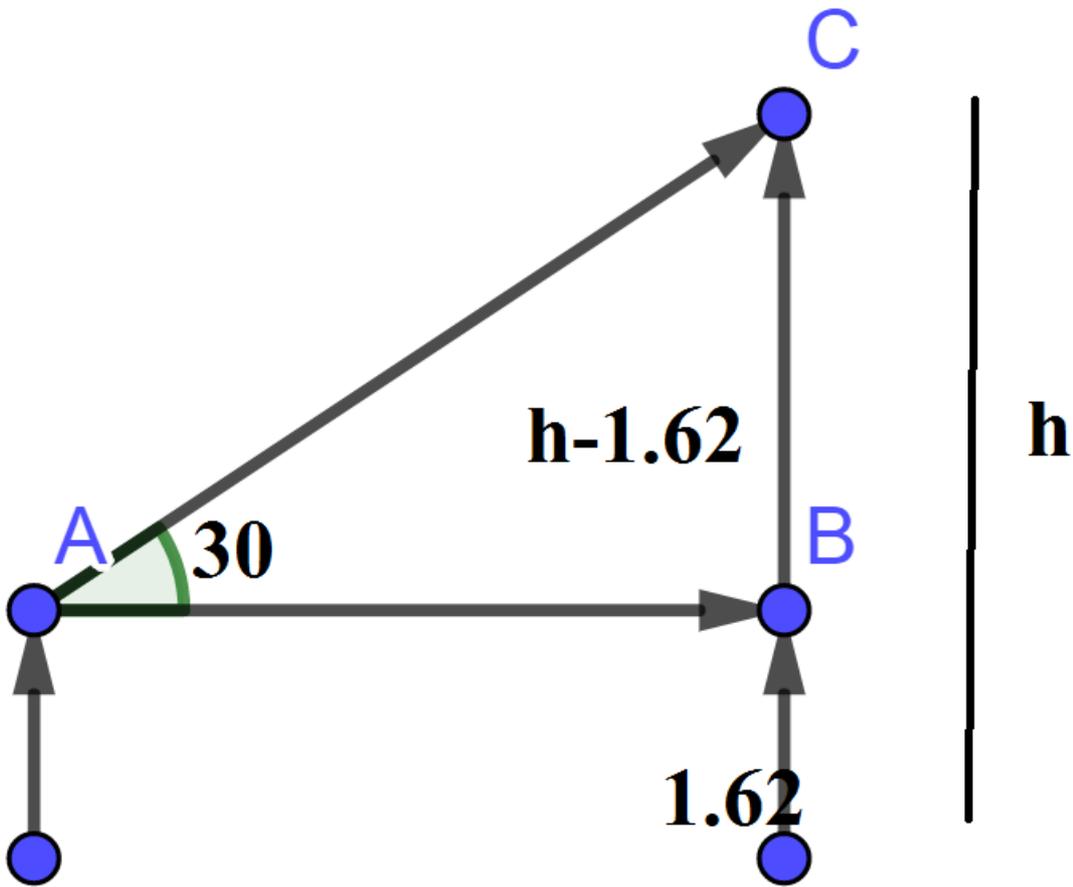
Answer: B

Explanation:

Given that observer 1.62 m away from 45 m angle 30°

AB = 45 m

then in the diagram



from the above figure $\tan 30^\circ = \frac{h-1.62}{1.62}$

$\Rightarrow h-1.62 = 1.62 \times \frac{1}{\sqrt{3}}$

$\Rightarrow h = 1.62 \times \frac{1}{\sqrt{3}} + 1.62$

$\Rightarrow h = 1.62 \times 0.577 + 1.62$

$\Rightarrow h = 2.56$ m

$\Rightarrow h = 2.6$ m Ans

SSC CPO Free Mock Test (Latest Pattern)

Question 132

A works twice as fast as B and B works twice as fast as C. All three working together can finish a task in 4 days with the help of D. If D alone can finish the same task in 16 days, then in how many days will A alone finish 75% of the same task?

A 8

B 7

C 9

D 6

Answer: B

Explanation:

we let A = 4, B = 2, C = 1

let D = x

total work = $(4+2+1+x)$ days

According to question $\frac{(4+2+1+x)}{4} \times 4 = 16$

$$12x = 28$$

$$x = \frac{28}{12} = \frac{7}{3}$$

$$\text{total work} = \left(\frac{7}{3} + 7\right) \times 4$$

$$\text{then } 75\% \text{ work} = \left(\frac{7}{3} + 7\right) \times 4 \times \frac{3}{4} \quad (\text{where } 75\% = \frac{3}{4})$$

$$\Rightarrow \left(\frac{7+21}{3}\right) \times 4 \times \frac{3}{4}$$

$$\Rightarrow 28$$

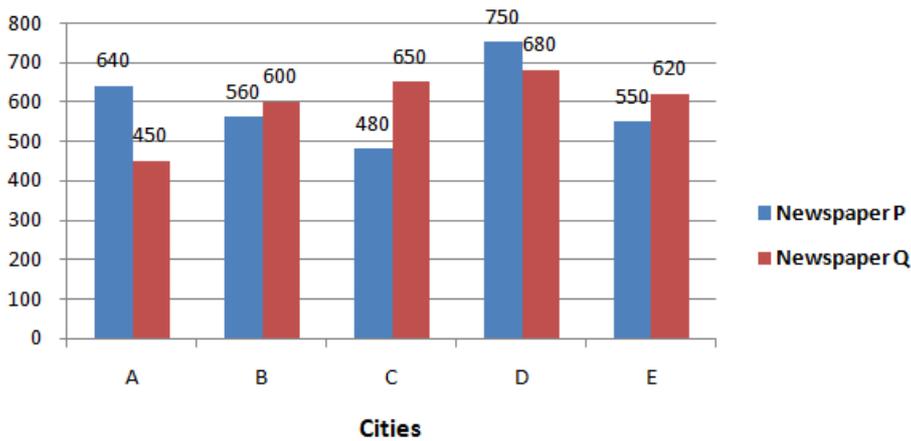
$$\text{then } A = \frac{28}{4} = 7 \text{ days Ans}$$



Question 133

Study the given graph and answer the question that follows.

Daily sales (in thousands) of newspapers P and Q in five cities



The total daily sales of newspaper P in cities B, D and E is what percentage less than that of newspaper Q in cities A, C, D and E?

- A 20.2
- B 20.8
- C 22.5
- D 24.4

Answer: C

Explanation:

Newspaper P in city B, D, E = $560 + 750 + 550 = 1860$

again newspaper Q in city A, C, D, E = $450 + 650 + 680 + 620 = 2400$

$$\% \text{ les compared with Newspaper Q} = \frac{2400 - 1860}{2400} \times 100\%$$

$$\Rightarrow 22.5\% \text{ Ans}$$

Question 134

The value of $\sqrt{6 - \sqrt{17 - 2\sqrt{72}}}$ is closest to:

- A 2.4
- B 1.7
- C 2.7
- D 2.1

Answer: A



Explanation:

$$\sqrt{6 - \sqrt{17 - 2\sqrt{72}}}$$

$$\rightarrow \sqrt{6 - \sqrt{17 - 2\sqrt{2^2 \times 3^2 \times 2}}}$$

$$\rightarrow \sqrt{6 - \sqrt{17 - 2 \times 6 \sqrt{2}}}$$

$$\rightarrow \sqrt{6 - \sqrt{17 - 12\sqrt{2}}}$$

$$\rightarrow \sqrt{6 - \sqrt{17 - 12 \times 1.41}}$$

$$\rightarrow \sqrt{6 - 0.03}$$

$$\rightarrow \sqrt{5.97}$$

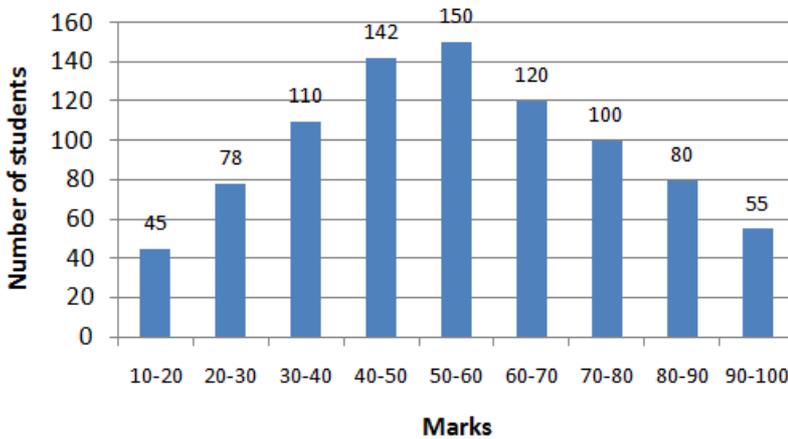
$$\rightarrow 2.44 \text{ Ans}$$

SSC CPO Previous Papers

Question 135

Study the given graph and answer the question that follows.

Distribution of marks obtained by students in an examination



The total number of students obtaining less than 50 marks is what percentage more than the total number of students obtaining 60 marks or more (correct to one decimal place).

A 6.8

B 4.4

C 6.2

D 5.6

Answer: D

Explanation:

Total number of a student obtaining less than 50 marks

$$\text{then total marks} = 45 + 78 + 110 + 142 = 375$$

again the total number of a student obtaining more than 60 marks

$$\text{so total} = 120 + 100 + 80 + 55 = 355$$

$$\% \text{ more than} = \frac{375 - 355}{355} \times 100$$

$$\rightarrow \frac{20}{355} \times 100$$

$$\rightarrow \frac{400}{71}$$

$$\rightarrow 5.63 \%$$

$$\rightarrow 5.6 \%$$

Question 136

The average score of 42 students in a test is 69. The ratio of the number of boys to that of girls is 10 : 11. The average score of the boys is 20% more than that of the girls. The average score of the boys is:

- A 75.2
- B 73.5
- C 75.6
- D 82.8

Answer: C

Explanation:

Total score = $69 \times 42 = 2898$

Ratio Boys : Girls = $10x : 11x$ (where x is proportional constant)

total student = $10x + 11x = 21x$

According to question now girls score is 1 and boys score is 1.2

then total student score = $10 \times 1.2x + 11 \times 1x = 23x$

so $x = \frac{2898}{23}$

$\Rightarrow x = 126$

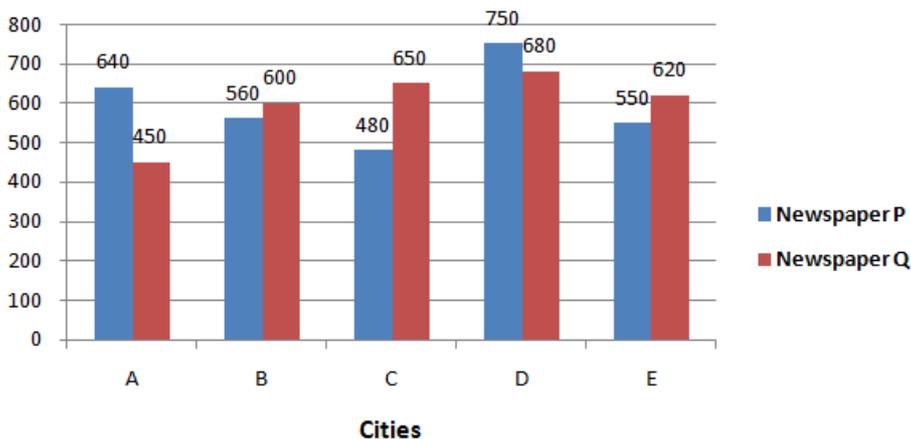
Boys score Average = $\frac{126 \times 12}{20}$

Boys score Average = 75.6 Ans

Question 137

Study the given graph and answer the question that follows.

Daily sales (in thousands) of newspapers P and Q in five cities



What is the ratio of the total daily sales of newspaper P in cities A and C to the total daily sales of newspaper Q in cities B and D?

- A 4 : 5
- B 7 : 8
- C 16 : 17
- D 15 : 16

Answer: B

Explanation:

Total daily sales at newspaper p in cities A & C = $640 + 480 = 1120$ question (1)

total daily sales of newspaper Q in cities B & D = $600 + 680 = 1280$ question (2)

then Ratio equation (1) and equation(2)

so Ratio = $\frac{1120}{1280}$

$\rightarrow \frac{112}{128}$

$\rightarrow \frac{7}{8}$

$\rightarrow 7 : 8$ Ans

1500 + Free Must Solved SSC Questions (With Solutions)

Question 138

ABCD is cyclic quadrilateral. Sides AB and DC, when produced, meet at E, and sides BC and AD, when produced, meet at F. If $\angle BFA = 60^\circ$ and $\angle AED = 30^\circ$, then the measure of $\angle ABC$ is:

A 75°

B 65°

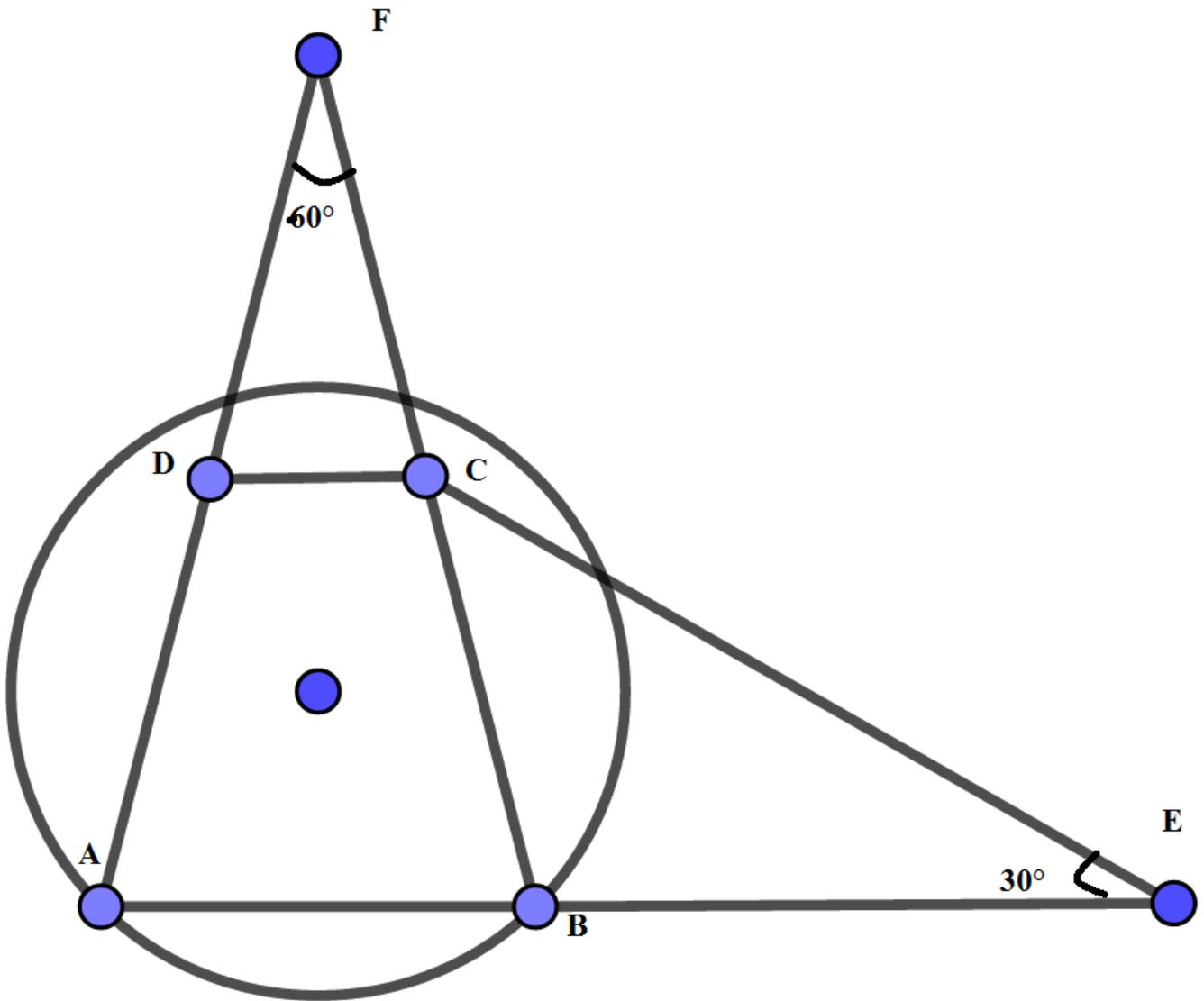
C 80°

D 70°

Answer: A

Explanation:

From the given question we draw the diagram is given below



from the above diagram $\angle BFA = 60^\circ$, $\angle AFD = 30^\circ$

then $\angle EBC + \angle ABC = 180^\circ$ (straight line)(1)

$\angle ABC + \angle ADC = 180^\circ$ (Opposite angle of cyclic quadrilateral)..... (2)

from the above Equation (1) and (2)

$$\angle EBC + \angle ABC = \angle ABC + \angle ADC$$

$$\angle EBC = \angle ADC \text{(3)}$$

$\angle DFC + \angle DCF + \angle CDF = 180^\circ$ (angle sum property of a triangle) (4)

$\angle BCE + \angle CBE + \angle CEB = 180^\circ$ (angle sum property of a triangle)(5)

from the equation (4) and (5)

$$\angle DCF = \angle BCF \text{ (Vertically Opposite angle)}$$

$$\angle DFC + \angle DCF + \angle CDF = \angle BCE + \angle CBF + \angle CEB$$

$$\Rightarrow \angle DFC + \angle CDF = \angle CBF + \angle CEB$$

$$\Rightarrow 60^\circ + 180^\circ - \angle EBC = \angle EBC + \angle CEB$$

$$\Rightarrow 60^\circ + 180^\circ = 2 \angle EBC + 30^\circ$$

$$\Rightarrow 2 \angle EBC = 210^\circ$$

$$\Rightarrow \angle EBC = 105^\circ$$

then $\angle ABC + \angle EBC = 180^\circ$

$$\Rightarrow \angle ABC + 105^\circ = 180^\circ$$

$$\rightarrow \angle ABC = 180^\circ - 105^\circ$$

$$\rightarrow \angle ABC = 75^\circ \text{ Ans}$$

Question 139

A conical vessel whose internal base radius is 18 cm and height 60 cm is full of a liquid. The entire liquid of the vessel is emptied into a cylindrical vessel with internal radius 15 cm. The height (in cm) to which the liquid rises in the cylindrical vessel is:

- A 28.8 cm
- B 30.2 cm
- C 27 cm
- D 24 cm

Answer: A

Explanation:

Conical vessel volume = $\frac{1}{3}\pi r^2 h$ where $r = 18 \text{ cm}$ and $h = 60 \text{ cm}$

$$\rightarrow \frac{1}{3}\pi (18)^2 \times 60 \text{ cm}^3$$

and cylindrical vessel volume = $\pi r^2 h = \pi (15)^2 h$ where $r = 15$

so volume of conical = volume of cylindrical then

$$\rightarrow \frac{1}{3}(18)^2 \times 60 = \pi \times 15 \times 15 h$$

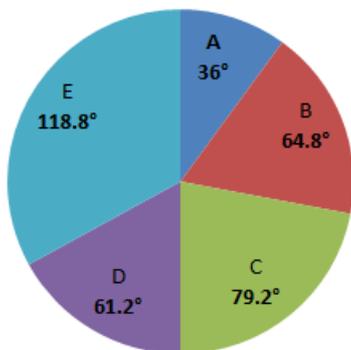
$$\rightarrow h = \frac{324 \times 20}{225}$$

$$\rightarrow h = 28.8 \text{ cm Ans}$$

Question 140

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

Distribution (degree wise) of students studying in school A, B, C, D & E
Total number of students-9000



If the ratio of the number of boys to that of girls in school C is 6 : 5 and that in school B is 7 : 11, then what is the ratio of the number of boys in school C to the number of girls in school B?

- A 11 : 12
- B 10 : 11
- C 12 : 11
- D 11 : 10

Answer: C

Explanation:

In-School c Boys and Girls ratio B: G = 6:5

total student in C = $9000 \times \frac{79.2}{360}$

$\Rightarrow 1980$

Now $6x + 5x = 1980$ (where x is proportional constant)

$\Rightarrow 11x = 1980$

$\Rightarrow x = 180$

then School C (Boys) = 6×180

In school B Boys and Girls Ratio = 7 : 11

then total student in B = $9000 \times \frac{64.8}{360} = 1620$

so $7x = 1620$

$x = 231.43$ so School B Girls = 11×231.43

then ratio = $6 \times 180 : 11 \times 231.43$

$\Rightarrow 12 : 11$ Ans

SSC CGL Free Mock Test (Latest Pattern)

Question 141

The profit on selling an article for ₹1,100 is equal to three times the amount of loss on selling it for ₹700. To gain 12.5%, the article must be sold for:

A ₹787.50

B ₹877.50

C ₹956

D ₹900

Answer: D

Explanation:

Suppose cost price (cp) = x

then according to question $1100 - x = 3(x - 700)$

$\Rightarrow 1100 - x = 3x - 2100$

$\Rightarrow 4x = 3200$

$\Rightarrow x = 800$

so gain 12.5% profit

profit = $\frac{12.5}{100} \times 800$

$\Rightarrow 100$

so article must sold = $800 + 100 = 900$ Ans

Question 142

If $a = 500$, $b = 502$ and $c = 504$, then the value of $a^3 + b^3 + c^3 - 3abc$

A 18072

B 15060

C 12048

D 17040

Answer: A

Explanation:

We know that $a^3+b^3+c^3 - 3abc = (a+b+c) (a^2 +b^2 +c^2 - ab - bc - ca)$ equation (1)

put the value $a= 500 , b = 502$ and $c = 504$

$$\Rightarrow (500+502+504) [(500)^2 +(502)^2 + (504)^2 - 500\times 502 - 502\times 504 - 500\times 504]$$

$$\Rightarrow (1506) (250000 + 252004 +254016 - 253008-251000-252000)$$

$$\Rightarrow (1506) (756020 - 756008)$$

$$\Rightarrow 1506\times 12$$

$$\Rightarrow 18072 \text{ Ans}$$

Question 143

The value of $8 \div [(9 - 5) \div \left\{ (4 \div 2 \text{ of } 4) - (8 \div 8 \text{ of } 16) + (4 \times 2 \div 8) \right\}]$ is:

A $\frac{12}{23}$

B $\frac{32}{23}$

C $\frac{23}{8}$

D $\frac{21}{8}$

Answer: C

Explanation:

Given that $8 \div [(9 - 5) \div \left\{ (4 \div 2 \text{ of } 4) - (8 \div 8 \text{ of } 16) + (4 \times 2 \div 8) \right\}]$

$$\Rightarrow 8 \div [(4) \div \left\{ (4 \div 8) - (8 \div 128) + (8 \div 8) \right\}]$$

$$\Rightarrow 8 \div [4 \div \left\{ \frac{1}{2} - \frac{1}{16} + 1 \right\}]$$

$$\Rightarrow 8 \div [4 \div \left\{ \frac{8-1+16}{16} \right\}]$$

$$\Rightarrow 8 \div [4 \div \left\{ \frac{23}{16} \right\}]$$

$$\Rightarrow 8 \div [4 \times \frac{16}{23}]$$

$$\Rightarrow \frac{8 \times 23}{4 \times 16}$$

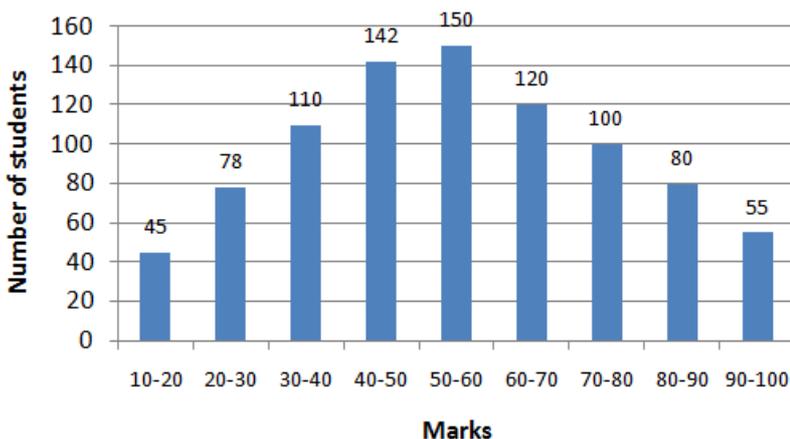
$$\Rightarrow \frac{23}{8} \text{ Ans}$$

SSC CGL Previous Papers (DOWNLOAD PDF)

Question 144

Study the given graph and answer the question that follows.

Distribution of marks obtained by students in an examination



The number of students who obtained 20 marks or more but less than 60 marks is:

- A 402
- B 600
- C 480
- D 522

Answer: C

Explanation:

From the given graph add number of student interval

20-30, 30-40, 40-50, 50-60

in the graph 20-30 value 78, 30-40 value 110, 40-50 value 142, 50-60 value 150

then add $78 + 110 + 142 + 150 = 480$ Ans

Question 145

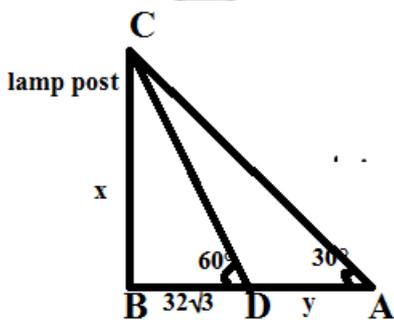
From the top of a lamp post of height x metres, two objects on the ground on the same side of it (and in line with the foot of the lamp post) are observed at angles of depression of 30° and 60° , respectively. The distance between the objects is $32\sqrt{3}$ m. The value of x is:

- A 54
- B 48
- C 45
- D 36

Answer: B

Explanation:

from the question we draw the diagram



Let $BD = y$

In the $\triangle ABC$

$$\tan 30^\circ = \frac{x}{32\sqrt{3} + y}$$

$$\frac{1}{\sqrt{3}} = \frac{x}{32\sqrt{3} + y} \dots \text{Equation (1)}$$

then in $\triangle ABC$

$$\tan 60^\circ = \frac{x}{y}$$

$$\sqrt{3} = \frac{x}{y}$$

$$y = \frac{x}{\sqrt{3}}$$

Put the value y in Equation (1)

$$\frac{1}{\sqrt{3}} = \frac{x}{32\sqrt{3} + \frac{x}{\sqrt{3}}}$$

$$\Rightarrow 32 + \frac{x}{3} = x$$

$$2 \left(\frac{x}{3}\right)^3 = 32$$

$$x = 48 \quad \text{Ans}$$

Question 146

If $x^4 + x^2y^2 + y^4 = \frac{21}{256}$ and $x^2 + xy + y^2 = \frac{3}{16}$ then $2(x^2 + y^2) =$

- A $\frac{5}{8}$
- B $\frac{3}{8}$
- C $\frac{3}{4}$
- D $\frac{5}{16}$

Answer: A

Explanation:

$x^4 + x^2y^2 + y^4 = \frac{21}{256}$ and $x^2 + xy + y^2 = \frac{3}{16}$ then $2(x^2 + y^2) = ?$

$x^4 + x^2y^2 + y^4$ equestion (1)

$\rightarrow x^4 + 2x^2y^2 + y^4 - x^2y^2$ (add & substract x^2y^2 in equestion (1))

$\rightarrow (x^2 + y^2)^2 - (xy)^2$

$\rightarrow (x^2 + y^2 + xy)(x^2 + y^2 - xy) = \frac{21}{256}$ we use that formula $\{a^2 - b^2 = (a+b)(a-b)\}$

$\rightarrow \frac{3}{16} (x^2 + y^2 - xy) = \frac{7}{16}$

$\rightarrow (x^2 + y^2 - xy) = \frac{7}{3}$ equestion (a)

$\rightarrow (x^2 + y^2 + xy) = \frac{3}{16}$ equestion (b)

Adding equestion (a) + equestion (b)

$\rightarrow 2(x^2 + y^2) = \frac{10}{16}$

$\rightarrow 2(x^2 + y^2) = \frac{5}{8}$ Ans .

Daily Free SSC Practice Set

Question 147

The value of $\frac{\left(\frac{3}{3} - 2\frac{1}{2}\right) \div \frac{1}{4}}$ of $\frac{1}{4} \left\{ \frac{3}{10} + \frac{1}{6} \times \frac{1}{3} \right\}$ of $\frac{4}{15} \div \frac{1}{3} \div \frac{1}{3}$ of $\frac{1}{9} \left\{ \frac{1}{9} \times \frac{1}{3} \div \frac{1}{6} \right\}$ is:

- A $\frac{9}{2}$
- B $\frac{2}{9}$
- C $\frac{4}{81}$
- D $\frac{27}{8}$

Answer: C

Explanation:

$\frac{\left(\frac{3}{3} - 2\frac{1}{2}\right) \div \frac{1}{4}}$ of $\frac{1}{4} \left\{ \frac{3}{10} + \frac{1}{6} \times \frac{1}{3} \right\}$ of $\frac{4}{15} \div \frac{1}{3} \div \frac{1}{3}$ of $\frac{1}{9} \left\{ \frac{1}{9} \times \frac{1}{3} \div \frac{1}{6} \right\}$

$\rightarrow \frac{\left(\frac{10}{3} - \frac{5}{3}\right) \div \frac{1}{4}}$ of $\frac{5}{4} \left\{ \frac{3}{10} + \frac{1}{6} \times \frac{1}{3} \right\}$ of $\frac{4}{15} \div \frac{1}{3} \div \frac{1}{3}$ of $\frac{1}{9} \left\{ \frac{1}{9} \times \frac{1}{3} \div \frac{1}{6} \right\}$

$\rightarrow \frac{\frac{5}{3} \div \frac{5}{16}}{\frac{4}{15} \div \frac{1}{3} \div \frac{1}{3}}$ of $\frac{4}{15} \div \frac{1}{3} \div \frac{1}{3}$ of $\frac{1}{9} \left\{ \frac{1}{9} \times \frac{1}{3} \div \frac{1}{6} \right\}$

$\rightarrow \frac{\frac{5}{6} \div \frac{5}{16}}{\frac{4}{15} \div \frac{1}{3} \div \frac{1}{3}}$ of $\frac{4}{15} \div \frac{1}{3} \div \frac{1}{3}$ of $\frac{1}{9} \left\{ \frac{1}{9} \times \frac{1}{3} \div \frac{1}{6} \right\}$

$$\Rightarrow \frac{\frac{5}{6} \times \frac{16}{5}}{\frac{32}{90}} \text{ of } \frac{4}{15} \div \frac{9 \times 9}{2}$$

$$\Rightarrow \frac{8}{3} \times \frac{90}{32} \text{ of } \frac{4}{15} \div \frac{81}{2}$$

$$\Rightarrow \frac{15}{2} \times \frac{4}{15} \div \frac{81}{2}$$

$$\Rightarrow 2 \div \frac{81}{2}$$

$$\Rightarrow 2 \times \frac{2}{81}$$

$$\Rightarrow \frac{4}{81}$$

therefore Option (C) $\frac{4}{81}$ Ans

Question 148

Seven years ago, the ages (in years) of A and B were in the ratio 4 : 5 and 7 years hence, their ages will be in the ratio 5 : 6. What will be the ratio of their ages 5 years from now?

A 31 : 33

B 33 : 40

C 34 : 41

D 33 : 34

Answer: C

Explanation:

Let Age of A = a, And ages B = b

then according to question $\frac{a-7}{b-7} = \frac{4}{5}$

$$\Rightarrow 5a - 35 = 4b - 28$$

$$\Rightarrow 5a - 4b = 7 \quad \text{..... equation (A)}$$

again second case $\frac{a+7}{b+7} = \frac{5}{6}$

$$\Rightarrow 6a + 42 = 5b + 35$$

$$\Rightarrow 6a - 5b = 7 \quad \text{..... equation (B)}$$

then Subtract B from A

$$\text{so } 5a - 4b + 6a - 5b = 0$$

$$\Rightarrow 11a = 9b$$

$$\Rightarrow a = \frac{9}{11}b \quad \text{..... equation (C)}$$

put the value in the equation B

$$\text{so } 55b - 54b = 77$$

b = 77 so we put the value of b = 77 in equation (C)

$$a = \frac{9}{11} \times 77$$

$$a = 63$$

then again $\frac{a+5}{b+5}$

$$\Rightarrow \frac{63+5}{77+5}$$

$$\Rightarrow \frac{68}{82}$$

$$\Rightarrow \frac{34}{41} \text{ Ans}$$

Question 149

A person rows a distance of $3\frac{3}{4}$ km upstream in $1\frac{1}{2}$ hours and a distance of 13 km downstream in 2 hours. How much time (in hours) will the person take to row a distance of 90 km in still water?

- A 15
- B 24
- C 18
- D 20

Answer: D

Explanation:

Let speed of boat = x km/hr

and speed of current = y km/hr

then upstream = $(x-y)$ km/hr

and down stream = $(x+y)$ km/hr

so according to question $\frac{3}{4}(x-y) = \frac{1}{2}$

$$\Rightarrow \frac{15}{4}(x-y) = \frac{3}{2}$$

$$\Rightarrow 2 \frac{(x-y)}{15} = \frac{1}{2}$$

$$\Rightarrow 2(x-y) = 5$$

$$\Rightarrow (x-y) = \frac{5}{2} \text{ equation (A)}$$

then down stream $\frac{13}{x+y} = 2$

$$\Rightarrow (x+y) = \frac{13}{2} \text{ equation (B)}$$

then add equation (A)+(B)

$$2x = \frac{18}{2}$$

$$x = \frac{9}{2} = 4.5$$

put the value $x = \frac{9}{2}$ in equation (B)

$$y = \frac{13}{2} - \frac{9}{2}$$

$$\Rightarrow y = \frac{4}{2} = 2$$

so speed of boat = 4.5 km/hr and current = 2 km/hr

time taken for rowing = 90 km/hr

$$= \frac{90 \times 10}{4.5}$$

$$\Rightarrow 20 \text{ hr} \text{ Ans}$$

General Science Notes (Download PDF)

Question 150

A started a business with a capital of ₹1,12,000. After 2 months, B joined the business with a capital of ₹80,000, and after another 2 months, C joined the business with a capital of ₹72,000. After 10 months from the start of the business, B withdrew ₹8,000 and C also withdrew ₹8,000. If B received ₹9,800 as his share in the profit at the end of a year, then the total profit was:

- A ₹35,800
- B ₹30,800
- C ₹32,400
- D ₹33,600

Answer: D

Explanation:

Number of months A worked = 12 months

number of months B worked = 10 months

and number of months C worked = 8 months

According to question $\$112000 \times 12 : 80000 \times 8 + 72000 \times 8 : 72000 \times 6 + 64000 \times 2$

$\$ \rightarrow 336 : 160 + 36 : 108 + 32$

$\$ \rightarrow 168 : 198 : 90$

$\$ \rightarrow 84 : 49 : 35$

Recovered profit = 9800 then according question

that $\frac{49}{168} \times x = 9800$ (let x is total profit)

$\$ \rightarrow x = \frac{9800 \times 168}{49}$

$\$ \rightarrow x = 200 \times 168$

$\$ \rightarrow x = 33600$ Ans

SSC Stenographer Previous Papers (DOWNLOAD PDF)

English Comprehension

Instructions

For the following questions answer them individually

Question 151

Select the most appropriate option to fill in the blank.

They postponed _____ on vacation due to adverse weather conditions.

A to be gone

B going

C for going

D to go

Answer: B

SSC Stenographer Previous Papers (Latest Pattern)

Question 152

Select the option which is the most appropriate one word substitution for the given group of words.

One who holds established opinions

A missionary

B atheist

C orthodox

D monotheist

Answer: C

Instructions

Select the most appropriate synonym of the given word.

Question 153

INCESSANT

- A persistent
- B transient
- C inconstant
- D intermittent

Answer: A

Question 154

FATIGUE

- A liveliness
- B weariness
- C freshness
- D brightness

Answer: B

SSC CGL Tier-2 Previous Papers PDF

Instructions

Identify the segment in the sentence which contains the grammatical error. If there is no error, select 'No error'.

Question 155

He wouldn't let anyone to drive his new car.

- A No error
- B anyone to drive
- C his new car
- D He wouldn't let

Answer: B

Question 156

Among the reasons cited by the employee for quitting the job were the pressure of work, the outstation duties and desiring to pursue her hobbies.

- A Among the reasons cited by the employee
- B were the pressure of work, the outstation duties
- C No error
- D and desiring to pursue her hobbies

Answer: D

Instructions

For the following questions answer them individually

Question 157

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

INSIDIOUS

- A sincere
- B treacherous
- C astute
- D stealthy

Answer: A

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Question 158

Select the most appropriate option to fill in the blank.

The majority _____ that the country can progress under able leadership.

- A believes
- B is believing
- C believe
- D have believed

Answer: A

Question 159

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

In spite of the high sounding words, his speech fell flat on the audience.

- A impressed a lot
- B appealed to the sentiments of the audience
- C could not be heard clearly
- D failed to make an impact

Answer: D

Question 160

Select the option which is the most appropriate one word substitution for the given group of words.

Statement open to more than one interpretation

- A ambidextrous
- B ambiguous
- C ambrosial
- D ambushed

Answer: B

SSC Study Material

Question 161

Select the most appropriate option to fill in the blank.
_____ of these boys is doing anything worthwhile.

- A None
- B Each
- C Both
- D Either

Answer: A

Question 162

Select the most appropriate meaning of the underlined idiom in the sentence.
My brother has decided to settle in Mumbai for good.

- A for new opportunities
- B for better income
- C for a while
- D forever

Answer: D

Question 163

Select the option which is the most appropriate one word substitution for the given group of words.
A decision which cannot be taken back

- A irrational
- B infallible
- C indelible
- D irrevocable

Answer: D

SSC Daily Practice Set

Question 164

Select the INCORRECTLY spelt word.

- A acceleration
- B schedule
- C vacuum

D tranquility

Answer: D

Question 165

Select the most appropriate ANTONYM of the given word.
ADEPT

A expert

B proficient

C deft

D inept

Answer: D

Question 166

Select the most appropriate option to substitute the underlined segment. If no substitution is required select 'No substitution'.
His employees were asking him for a raise for a long time now.

A asked him for a rise

B No substitution

C have been asking him for a raise

D are asking him of a raise

Answer: C

SSC GK Free Tests

Question 167

Select the most appropriate meaning of the underlined idiom in the sentence.
All those who carried the day in reality shows failed to make a mark later.

A won a victory

B made a guest appearance

C acted as hosts

D participated

Answer: A

Question 168

Select the INCORRECTLY spelt word.

A acquaintance

B acquisition

C explanation

D aggregate

Answer: C

Question 169

Select the most appropriate option to fill in the blank.

Please sign these documents _____ ink so that they can be preserved .

A from

B in

C with

D by

Answer: B

Current Affairs Question and Answers (Download PDF)

Question 170

Select the option which is the most appropriate one word substitution for the given group of words.

One who travels by foot

A propagandist

B pedestrian

C paediatrician

D protagonist

Answer: B

Question 171

Select the correctly spelt word.

A humilated

B humillated

C humelated

D humiliated

Answer: D

Question 172

Select the most appropriate synonym of the given word.

SANCTION

A denial

B grace

C approval

D mercy

Answer: C

Daily and Monthly Current Affairs (Download PDF)

Instructions

Read the given passage and answer the questions that follow.

Comprehension:

Pollution befouls the air and poisons water. Pollution induces the release of toxicants into the biosphere which makes the air unsuitable for breathing, harms the quality of water and soil, and causes the emission of substances that may cause damage to humans, plants and animals.

To cater to the needs of an increasing population, agriculture has been intensified through the use of a wide spectrum of fertilizers and pesticides. Diverse industries have been set up to produce chemicals including those that pose a danger to all life forms.

Rapid industrialisation has led to deterioration in the quality of air. Widespread use of coal and fossil fuels in industries and petroleum fuel in motor vehicles has aggravated the air pollution problem. Our atmosphere seems to have become a waste basket into which dust, noxious fumes, toxic gases and other pollutants are callously thrown.

The intensity of air pollution in Indian cities is increasing primarily due to our vintage vehicles and their poor performance. Water pollution, too has increased with the growth of our population and also that of our industries. Water pollution has acquired dangerous dimensions ever since sewage and industrial effluents have started being disposed of into the rivers. Once considered sacred, the rivers are now turning murky and stink. It is sad that almost three-fourths of our fellow citizens have no choice but to drink filthy water. The severely polluted rivers due to mindless dumping of sewage and industrial wastes are a cause for concern not only to us humans but also to myriads of life forms that exist in water. On the French and Italian rivieras we can no longer see the sparkling blue waters. The Mediterranean Sea is reported to be turning grey. Rivers and canals pour sewage, detergents and industrial waste into the sea; tankers flush their contents near the river or sea; bottles, rotting garbage and oil slicks are washed into the beaches. The phosphates and nitrates applied to farmlands as inorganic fertilizers, concentrate in lakes and estuaries causing algal blooms due to which wide expanses of water get choked, plants rot, oxygen is used up and fish die.

Question 173

Which of the following factors is responsible for algal blooms?

- A Concentration of inorganic fertilizers in lakes
- B Farmlands being located near lakes and estuaries
- C Using up of oxygen dissolved in the water by algae
- D Rotting of aquatic plants in lakes and estuaries

Answer: A

Question 174

Select the most appropriate title for the passage

- A Algal Blooms
- B We Breathe and Drink Poison
- C The Saga of Sacred Rivers
- D Impact of Industrialisation

Answer: B

Question 175

Since when has water pollution acquired dangerous dimensions?

- A Since sewage and industrial effluents started being disposed of in rivers
- B Since oil slicks started being washed on the shores of beaches
- C Since sacred rivers became murky and lost their sanctity
- D Since the Mediterranean Sea started changing colour

Answer: A

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Question 176

Deterioration in the quality of air can mainly be attributed to

- A global climate change
- B intensified agricultural practices
- C increase in population
- D rapid industrialisation

Answer: D

Question 177

As per the passage, which of these statements is NOT true about air pollution?

- A Vintage vehicles and their poor performance adds to pollution.
- B Use of coal and fossil fuels aggravates air pollution.
- C Three-fourths of our citizens are breathing poor quality air.
- D Dust and toxic gases released in the air cause air pollution.

Answer: C

Instructions

For the following questions answer them individually

Question 178

**Select the most appropriate option to substitute the underlined segment. If no substitution is required select 'No substitution'.
If you will bring a letter of introduction, I will consider your request.**

- A If you brings
- B No substitution
- C If you will be bringing
- D If you bring

Answer: D

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Question 179

Select the most appropriate synonym of the given word.

JEOPARDY

- A promotion
- B prevention
- C peril
- D protection

Answer: C

Question 180

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

The aged man preferred to die in harness than lead a rusted life.

- A to lead a life of comfort
- B to continue occupation till death
- C to keep one's belongings safe
- D to live in perpetual slavery

Answer: B

Question 181

Identify the segment in the sentence which contains the grammatical error. If there is no error, select 'No error'.

If she left now, she would reach the station on time.

- A she would reach
- B the station on time
- C if she left now
- D No error

Answer: D

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Instructions

Select the most appropriate option to substitute the underlined segment. If no substitution is required select 'No substitution'.

Question 182

It would be wise to accept the company's offer lest you should regret later.

- A lest you shall not regret
- B No substitution
- C lest you would regret

D lest you should not regret

Answer: B

Question 183

This is one of the boldest economic reform that have ever been introduced.

A economic reform that has ever

B No substitution

C economic reforms that has ever

D economic reforms that have ever

Answer: D

Question 184

She has no other hobby but that of collecting coins.

A no other hobby than

B No substitution

C no another hobby but

D not other hobbies but

Answer: A

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Instructions

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

Comprehension:

If you don't have a lump sum to invest in a fixed deposit, you can (1)_____ opt for a long-term recurring deposit, (2)_____ the minimum amount of monthly investment is (3)_____ low as Rupees 100. At the end of the (4)_____ you get back the amount invested (5)_____ with the interest earned on it. It is a good way of saving money regularly.

Question 185

Select the most appropriate option to fill in blank No.1.

A assured

B surely

C ensure

D sure

Answer: B

Question 186

Select the most appropriate option to fill in blank No.2.

- A whenever
- B where
- C when
- D wherefore

Answer: B

Question 187

Select the most appropriate option to fill in blank No.3.

- A too
- B just
- C as
- D so

Answer: C

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Question 188

Select the most appropriate option to fill in blank No.4.

- A tenure
- B timing
- C interval
- D time

Answer: A

Question 189

Select the most appropriate option to fill in blank No.5.

- A along
- B among
- C besides
- D as well as

Answer: A

Instructions

For the following questions answer them individually

Question 190

Select the most appropriate synonym of the given word.

IGNOMINY

- A esteem
- B virtue
- C morality
- D disgrace

Answer: D

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Question 191

Select the most appropriate option to fill in the blank.
The company has appointed twice as _____ women as men.

- A many
- B most
- C much
- D more

Answer: A

Question 192

Select the correctly spelt word.

- A omelete
- B omlate
- C omelette
- D omelate

Answer: C

Question 193

Select the INCORRECTLY spelt word.

- A diagnosis
- B athlete
- C ecstasy
- D accumulate

Answer: C

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Question 194

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

- A heedless
- B brash
- C daring
- D cautious

Answer: D

Question 195

Select the most appropriate meaning of the underlined idiom in the sentence.
Simran was under tremendous stress because she had too many irons in the fire.

- A She had too many clothes to iron
- B She was involved in many activities
- C She had made a lot of risky investments
- D She was suffering from many ailments

Answer: B

Question 196

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

- A indolence
- B patience
- C tolerance
- D persistence

Answer: A

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Question 197

Select the option which is the most appropriate one word substitution for the given group of words.
Animals living in flocks

- A bohemian
- B gregarious
- C social
- D herbivorous

Answer: B

Question 198

Identify the segment in the sentence which contains the grammatical error. If there is no error, select 'No error'.
The detective compared the forged signature to the original.

- A to the original
- B the forged signature
- C The detective compared
- D No error

Answer: A

Question 199

Select the most appropriate ANTONYM of the given word.
MORTALITY

- A fatality
- B lethality
- C death
- D birth

Answer: D

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Question 200

Identify the segment in the sentence which contains the grammatical error. If there is no error, select 'No error'.
The monsoon have, in the past five days, retreated from most parts of the country.

- A in the past five days
- B retreated from most parts
- C The monsoon have
- D No error

Answer: C

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