



SSC CPO 13th Dec 2019 Shift-1

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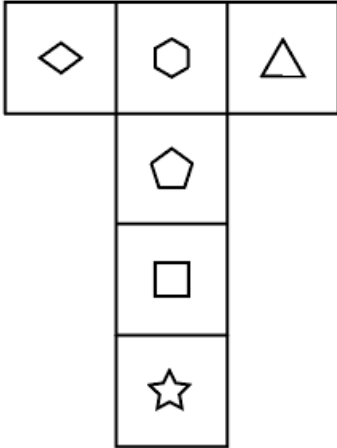
General Intelligence and Reasoning

Instructions

For the following questions answer them individually

Question 1

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

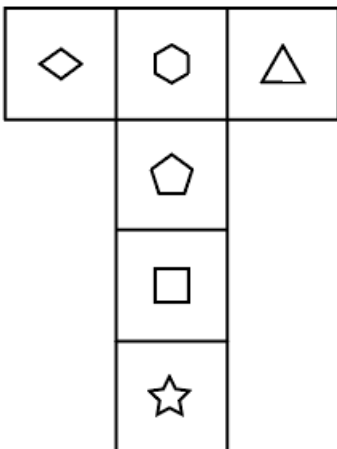


- A
- B
- C
- D

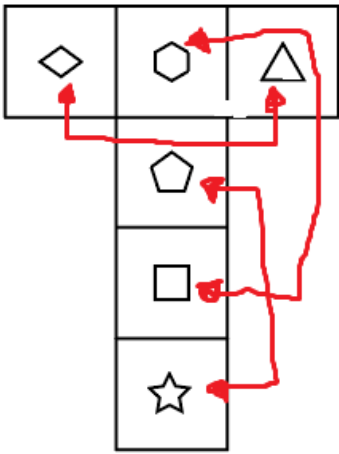
Answer: A

Explanation:

Given figure



from the above figure, the opposite symbol is given below in the figure every third symbol is opposite every first symbol



then



opposite symbols are



therefore Option (A) Ans

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Question 2

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

15, 18, 13, 20, 11, ?

- A 22
- B 20
- C 25
- D 23

Answer: A

Explanation:

Given series 15, 18, 13, 20, 11, ?

in the series going on two-part first

$$15 - 2 = 13$$

13 - 2 = 11 and so on

and 2nd part

$$18 - 2 = 20$$

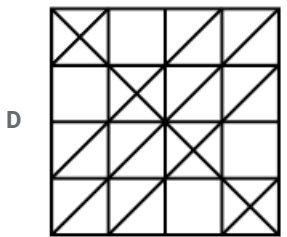
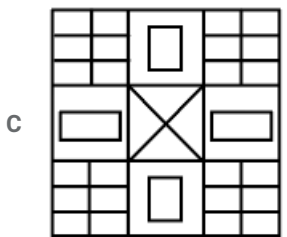
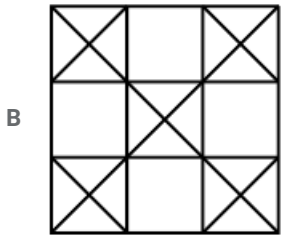
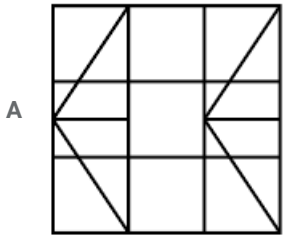
$$20 + 2 = 22 (?)$$

? = 22 Ans

Question 3

Select the option in which the given figure is embedded (rotation is NOT allowed).



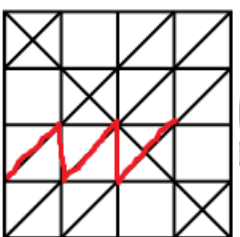


Answer: D

Explanation:
Given figure



the above figure is embedded is given below



therefore Option (D) Ans

Question 4

Which two signs need to be interchanged to make the following equation correct?
 $48 - 8 \div 4 + 5 \times 6 = 32$

- A \times and $+$
- B \div and $-$
- C \times and \div

D \div and +

Answer: B

Explanation:

Given expression $48 - 8 \div 4 + 5 \times 6 = 32$

check option (A) \times and +

we put the sign from the given expression

$$48 - 8 \div 4 \times 5 + 6 = 32$$

$$\text{LHS } 48 - 8 \div 4 \times 5 + 6$$

$$\Rightarrow 48 - 2 \times 5 + 6$$

$$\Rightarrow 48 - 10 + 6$$

$$\Rightarrow 44 \text{ its not staisfied RHS}$$

then we check option (B) \div and -

we put sign from the given option

$$48 \div 8 - 4 + 5 \times 6 = 32$$

$$\text{LHS } 48 \div 8 - 4 + 5 \times 6$$

$$\Rightarrow 6 - 4 + 30$$

$$\Rightarrow 32 \text{ RHS it is verified RHS}$$

therefore option (B) \div and - Ans

SSC CHSL Prevoius Papers (DOWNLOAD PDF)

Question 5

Select the correct mirror image of the given combination when the mirror is held at the right side.

JKWM691F

A **Ɔ1QǝMʌꞀJ**

B **ꞀKʌʌǝǝ1F**

C **Ɔ1QǝMʌꞀJ**

D **ꞀKWM691F**

Answer: C

Explanation:

Given figure

JKWM691F

the above mirror image is given below held at the right side

JKWM691F | **Ɔ1QǝMʌꞀJ**

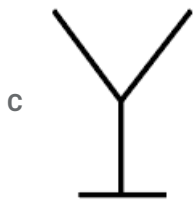
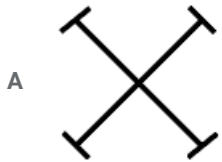
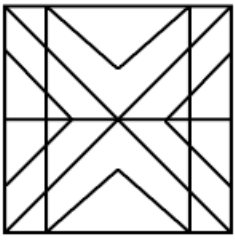
then mirror image is held at the right side

Ɔ1QǝMʌꞀJ

therefore Option (C)Ans

Question 6

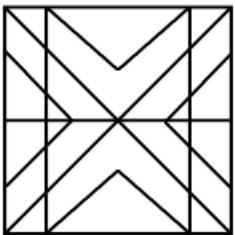
Select the option that is embedded in the given figure (rotation is NOT allowed).



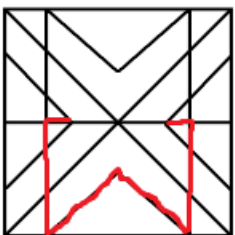
Answer: B

Explanation:

Given Figure



then the embedded figure is given below



therefore figure



Hence Option (B) Ans

Question 7

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

3, 12, 36, 80, ?, 248

A 149

B 146

C 147

D 152

Answer: A

Explanation:

Given series 3, 12, 36, 80, ?, 248

take of difference $12-3 = 9$, $36-12 = 24$, $80-36 = 44$,

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

then $44 + 25 = 69$

therefore $? = 80 + 69 = 149$ Ans

SSC CHSL Free Mock Test (Latest Pattern)

Question 8

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

$25 - 2 + 32 \times 8 \div 4$

A 51

B 45

C 55

D 50

Answer: D

Explanation:

As for given question $25 - 2 + 32 \times 8 \div 4$

$\Rightarrow 25 \times 2 - 32 \div 8 + 4$ (we change the sign for the given condition)

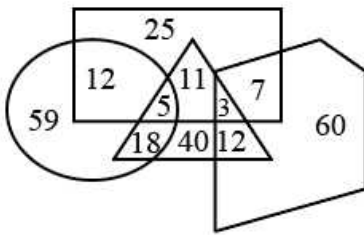
$\Rightarrow 25 \times 2 - 4 + 4$

$\Rightarrow 50 - 4 + 4$

$\Rightarrow 50$ Ans

Question 9

The data of a company's employees is shown by the given Venn diagram. The circle represents 'engineers', the triangle represents computer experts', the rectangle represents 'MBAs' and the pentagon represents 'females'. The numbers given in the diagram represent the number of persons of that particular category.



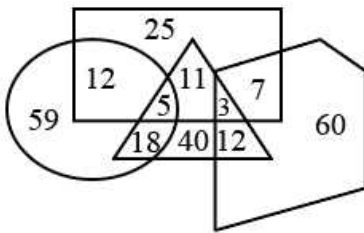
How many of the employees are MBAs, and how many male MBAs are computer experts but NOT engineers, respectively?

- A 44,11
- B 63,11
- C 25,18
- D 44,16

Answer: B

Explanation:

Given that The circle represents 'engineers', the triangle represents computer experts', the rectangle represents 'MBAs' and the pentagon represents 'females'



then the employees are MBAs, and how many male MBAs are computer experts but NOT engineers

MBA's = $25 + 12 + 5 + 11 + 3 + 7 = 63$ (from the rectangle represent the MBA)

and male MBAs are computer experts but NOT engineers = 11 (From the above representation)

therefore the employees are MBAs, and how many male MBAs are computer experts but NOT engineers= 63, 11

Hence Option (B) 63,11 Ans

Question 10

Four number-pairs are given out of which three are alike in a certain way and one is different. Select the number-pair that is different from the rest.

- A 18 : 306
- B 23 : 552
- C 13 : 182
- D 25 : 650

Answer: A

Explanation:

From the above option (A) $18 \times 17 = 306$

(B) $23 \times 24 = 552$

(C) $13 \times 14 = 182$

(D) $25 \times 26 = 650$

then from above line A is different from other it is multiply by one less than it self .

therefore (A) 18 : 306 Ans

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Question 11

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

184 : 207 :: 208 : ?

A 234

B 344

C 235

D 237

Answer: A

Explanation:

Let the 4th number be = x

so $184 : 207 :: 208 : x$

According to the method and proportion we get

$$\frac{184}{207} = \frac{208}{x}$$

$$\Rightarrow 184x = 207 \times 208$$

$$x = \frac{207 \times 208}{184}$$

$$x = 234$$

so the 4th number related to the 3rd number 234 Ans

Question 12

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

EFY, FID, GLI, HON, IRS, ?

A KUX

B KQY

C JUX

D JVV

Answer: C

Explanation:

The given alphabet series EFY, FID, GLI, HON, IRS, ?

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

then E= 5, F=6, Y=25, I=9, D= 4, G=7, L=12, H=8, O=15, N=14, R=18, S= 19

then the series represent in the form alphabet position

5 6 25, 6 9 4, 7 12 9, 8 15 14, 9 18 19, ?

then the series pattern going in the form first is increasing 1 position to the next second is increasing in 3 positions to the next and third

is increasing in 5 positions to next

, therefore ? = 10 21 24

? = J U X (10 21 24) Ans

Question 13

Select the option that gives a meaningful sequence of the given words.

1. Billion
2. Trillion
3. Hundred
4. Million
5. Thousand

A 2, 1, 5, 3, 4

B 3, 1, 5, 2, 4

C 3, 1, 4, 5, 2

D 2, 1, 4, 5, 3

Answer: D

Explanation:

From the given option in a meaningful sequence order

2. Trillion 1. Billion 4. Million 5. Thousand 3. Hundred

, therefore, meaningful option 2 1 4 5 3 Ans

SSC CPO Free Mock Test (Latest Pattern)

Question 14

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

A Gladsome

B Morose

C Joyous

D Cheerfu

Answer: B

Explanation:

From the given Option Gladsome, Joyous, Cheerful are synonyms to each other

But Morose is different Words

therefore Option (B) Morose Ans

Question 15

'Quarrel' is related to 'War' in the same way as 'Error' is related to ' _____

A Mend

B Defect

C Blunder

D Flaw

Answer: C

Explanation:

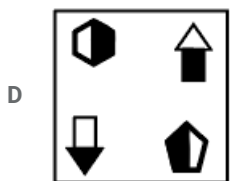
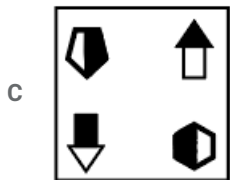
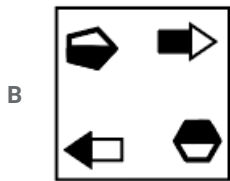
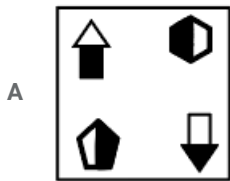
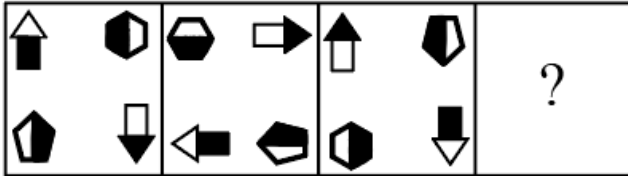
The given that Relation
'Quarrel' is related to 'War'

in the same way, 'Error' is related to 'Blunder'

therefore Option (C)Blunder Ans

Question 16

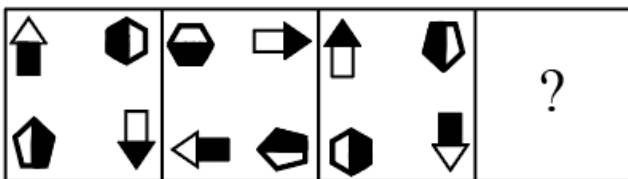
Select the option that can replace the question mark (?) in the following series.



Answer: B

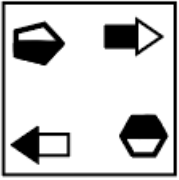
Explanation:

Given figure



From the above, the figure is rooted anticlockwise in each box

? is replace given below figure



therefore Option (B) Ans

SSC CPO Previous Papers

Question 17

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

- A GKR
- B QIZ
- C HNU
- D MKX

Answer: C

Explanation:

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

we check Pattern

Option (A) GKR

7 11 18

the pattern is follow $7+11=18$ (first position alphabet + second position alphabet = 3rd position alphabet)

Option (B)QIZ

17 9 26

the pattern is follow $17+9=26$ (first position alphabet + second position alphabet = 3rd position alphabet)

Option (D) MKX

13 11 24

the pattern is follow $13+11=24$ (first position alphabet + second position alphabet = 3rd position alphabet)

Option (C) HNU

8 14 21

the pattern is follow $8+14=22$ (first position alphabet + second position alphabet = 3rd position alphabet)

then from the above Option A, B and D is follow the same pattern But option (C) is not follow that pattern it is different

therefore Option (C) HNU Ans

Question 18

Three of the following four numbers are alike in a certain way and one is different. Select the number that is different from the rest.

- A 90
- B 165
- C 195
- D 170

Answer: D

Explanation:

$$90$$

From the given option $90 = 15 = 6$

$$165$$

$165 = 15 = 11$

$$195$$

$195 = 15 = 13$

$$170$$

But $170 = 15 = 11.33$

then Option (D) 170 is different from other option because it is not divide by 15 another option is divided by 15

therefore (D)= 170 Ans

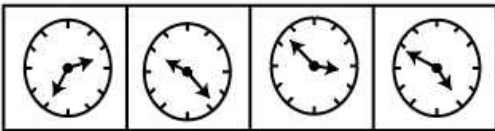
Question 19

Select the Answer Figure that is the correct mirror image of the given figure when the mirror is held at the right side.

Figure:



Answer Figure:



A B

B C

C A

D D

Answer: D

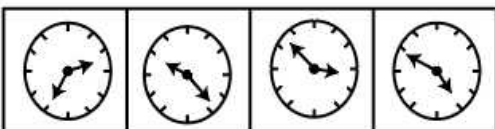
Explanation:

Given figure

Figure:



Answer Figure:



from the above, the mirror image is given below held at the right side

Figure:



the mirror image is



therefore Option (D) Ans

1500 + Free Must Solved SSC Questions (With Solutions)

Question 20

Seven friends are sitting in a row. Jyoti is to the immediate right of Priya and to the immediate left of Trisha. Aditi is to the immediate right of Akshaya. Aditi and Priya have one person between them. Trisha and Diksha have two persons between them. Anika and Priya have two persons between them. Who is at the extreme right end?

- A Anika
- B Akshaya
- C Jyoti
- D Trisha

Answer: A

Explanation:

From the given question Sitting in Row given below seven Friends Left to Right

Akshaya Aditi Diksha Priya Jyoti Trisha Anika

From the above sitting arrangement

the extreme right end = Anika

therefore Option (A) Anika Ans

Question 21

Four number-pairs are given out of which three are alike in a certain way and one is different. Select the number-pair that is different from the rest

- A 5 : 7
- B 17 : 23
- C 13 : 19
- D 31 : 41

Answer: A

Explanation:

From the given option (A) 5 : 7 is different from the other option due to Single digits ratios

another option is double digits ratios

therefore option (A) 5 : 7 Ans

Question 22

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

Son : Daughter :: Stag : ?

- A Fawn
- B Doe

- C Moose
- D Buck

Answer: D

Explanation:

Given that Son: Daughter:: Stag:?

from the above Son Antonyms is Daughter

A similar Stage is related to Buck.

therefore? = Buck Ans

SSC CGL Free Mock Test (Latest Pattern)

Question 23

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 chocolates are toffees.
- II. All toffees are eclairs.

Conclusions:

- I. Some eclairs are toffees.
- II. Some eclairs are chocolates.

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

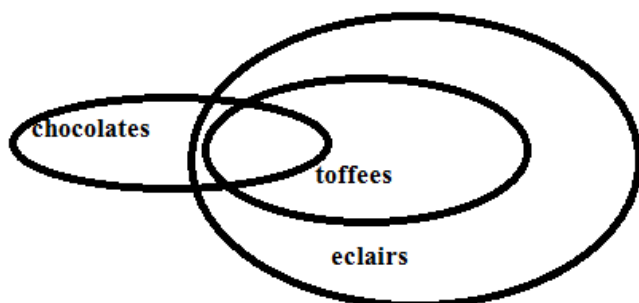
Answer: A

Explanation:

Given that **Statements:**

- I. Some chocolates are toffees.
- II. All toffees are eclairs.

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



the above figure we check **Conclusions:**

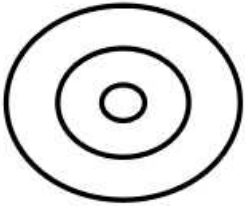
- I. Some eclairs are toffees True
- II. Some eclairs are chocolates True

therefore Both Conclusion I and II follow

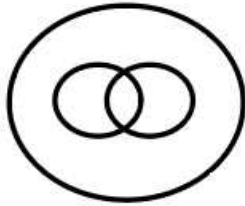
Hence Option (A) Ans

Question 24

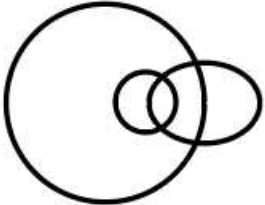
Select the Venn diagram that represents the correct relationship between the following classes:
Singers, Homo Sapiens, Cricketers



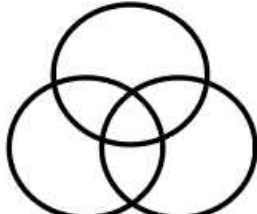
1



2



3



4

A 1

B 2

C 3

D 4

Answer: B

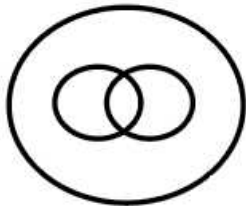
Explanation:

Given that Singers, Homo Sapiens, Cricketers

We know that Every singer can be a Cricketers and every cricketer can be Singers it is the possibility

cricketers and Singers are a Homo Sapiens

then Venn Diagram is given below



2

therefore Option 2 Ans

Question 25

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

W, T, O, L, ?, D

A J

B K

C G

D H

Answer: C

Explanation:

Given series W, T, O, L, ?, D

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

then W= 23, T= 20, O = 15, L=12, D = 4

then given series represent in the form of alphabet position

23, 20, 15, 12, ?, 4

so the series going on $23-20 = 3$, $20-15= 5$, $15-12=3$

Next $12 - ? = 5$

? = 7

? = G (7) Ans

SSC CGL Previous Papers (DOWNLOAD PDF)

Question 26

Select the option in which the numbers are NOT related in the same way as are the numbers in the given set. (143, 110, 88)

A (69, 36, 14)

B (61, 28, 6)

C (114, 82, 60)

D (123, 90, 68)

Answer: C

Explanation:

Given that (143, 110, 88)

the above is follow the pattern $143-110= 33$

$110-88 = 22$

in the same pattern follow the option (A),(B),(D) given below

(A) (69,36,14)

the pattern is follow $69-36 = 33$

and $36 - 14 = 22$

(B) (61,28,6)

the pattern is follow $61-28 = 33$

and $28-6 = 22$

(D)(123,90,68)

in the same pattern

$123-90= 33$

and $90-68 = 22$

but option (C)(114,82,60) is not follow the above pattern

$114-82 = 32$ and $82-60= 22$

therefore option (C) (114,82,60) Ans

Question 27

Four number-pairs are given out of which three are alike in a certain way and one is different. Select the number-pair that is different from the rest.

A 16 : 64

B 34 : 289

C 24 : 142

D 14 : 49

Answer: C

Explanation:

Given that From the above option (A),(B),(D) follows the same pattern given below

(A) 16:64

16

16 : 2

16 : $(8)^2$

then 16: 64

(B) 34: 289

34

34 : 2

34 : $(17)^2$

34 : 289

14

(D) 14 : 2

14 : $(7)^2$

14 : 49

But Option (C) 24:142

24

24 : 2

24 : $(12)^2$

24 : 144

therefore Option (C) is not follow

hence option (C) 24:142 Ans

Question 28

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

A Depression

B Malaria

C Typhoid

D Flu

Answer: A

Explanation:

From the given Option Malaria, Typhoid, Flu involve in fever compulsory and it Similar to each other and Depression is different because Depression involve in mental disorders.

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Question 29

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.

16 : 128 :: 18 : 162 :: 22 : ?

- A 246
- B 242
- C 88
- D 484

Answer: B

Explanation:

The given expression 16 : 128 :: 18 : 162 :: 22 : ?

then 16 : $16 \times (16 \div 2)$

$\Rightarrow 16 : 16 \times 8$

$\Rightarrow 16 : 128$

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

$\Rightarrow 18 \times 9$

$\Rightarrow 18 : 162$

22 : $22 \times (22 \div 2)$

$\Rightarrow 242$

then 22 : 242

therefore ? = 242 Ans

Question 30

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

Anemometer : Wind

- A Barometer : Depth
- B Seismograph : Earthquake
- C Scale : Current
- D Odometer : Pressure

Answer: B

Explanation:

Given that Anemometer: Wind

from the Anemometer measure speed of Wind, in the same way, Seismograph is measured to Earthquake

therefore, (B) Seismograph: Earthquake Ans

Question 31

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

3	2	38	5
5	3	?	4
7	1	54	2

- A 48
- B 52
- C 40
- D 50

Answer: D

Explanation:

As for given question patten follow in a row

$$3^2 + 2^2 + 5^2 = 9 + 4 + 25 = 38$$

$$7^2 + 1^2 + 2^2 = 49 + 1 + 4 = 54$$

$$\text{next } 5^2 + 3^2 + 4^2 = 25 + 9 + 16 = 50 \text{ Ans}$$

General Science Notes (Download PDF)

Question 32

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

- A 114
- B 116
- C 110
- D 119

Answer: B

Explanation:

Given in the question A= 1, B=3, C=5, D=7 And so on.

then we can say that the given alphabet followed the n^{th} alphabet $= 2 \times n - 1$

the word CARDINAL value

$$\text{therefore C} = 2 \times 3 - 1 = 5 \text{ (C = 3 alpgabet position)}$$

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

$$R = 2 \times 18 - 1 = 35$$

$$D = 2 \times 4 - 1 = 7$$

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

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

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

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

total value of CARDINAL = $5+1+35+7+17+27+1+23= 116$ Ans

Question 33

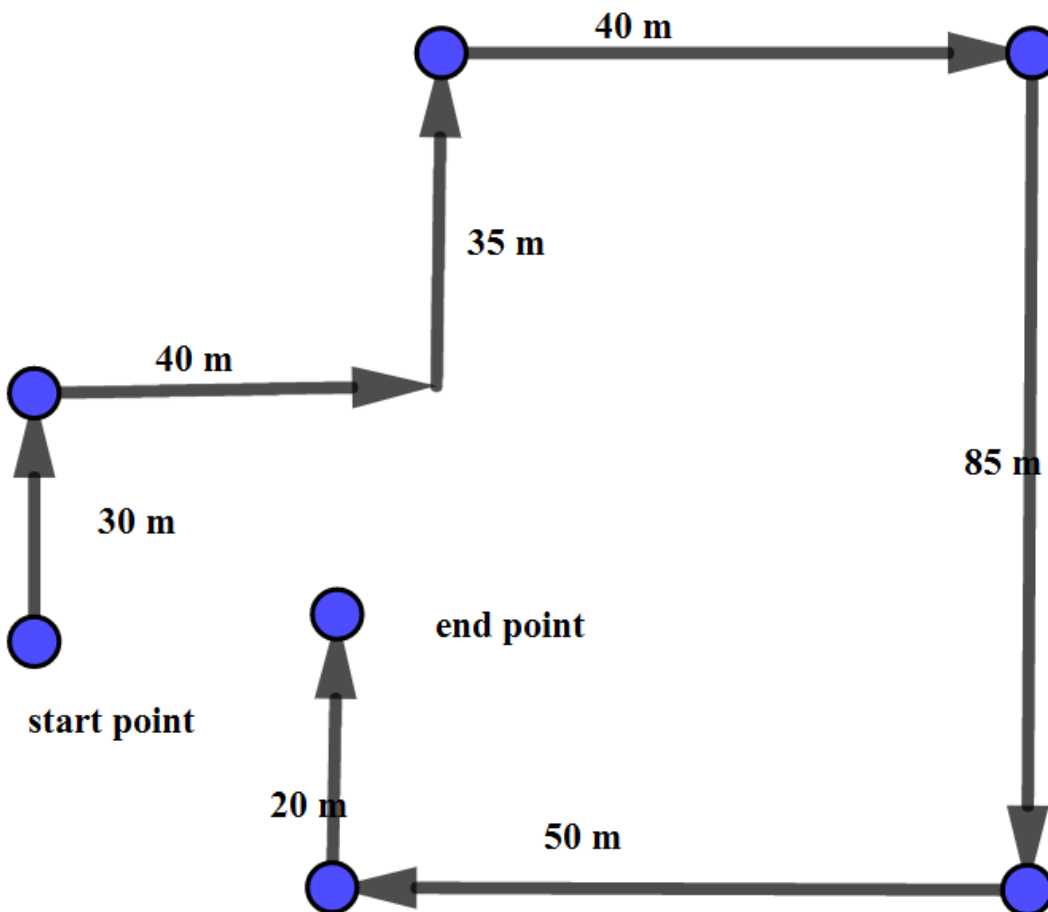
Vimla starts from her home and walks 30 m towards north and then turns right and walks 40 m. Then, she turns left and walks 35 m. After that, she turns right and walks 40 m. From there, she turns right and walks 85 m. Then, she again turns right and walks 50 m. From there, she finally turns right and walks 20 m. How far is she from her home now and in which direction with reference to her home?

- A 30 m, South
- B 20 m, West
- C 100 m, East
- D 30 m, East

Answer: D

Explanation:

Vimla walks distance given below in the diagram



Total distance = $40+40 = 80$

far at home $80-50 = 30$ m in east (from home)

Hence 30 m East Ans

Question 34

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

7, 11, 20, 36, 61, ?

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



Answer: A

Explanation:

From the given series 7, 11, 20, 36, 61, ?

As given follow pattern $7 + 2^2 = 11$

$$11 + 3^2 = 20$$

$$20 + 4^2 = 36$$

$$36 + 5^2 = 61$$

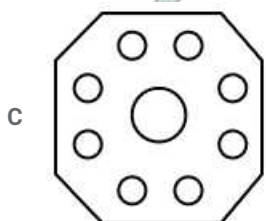
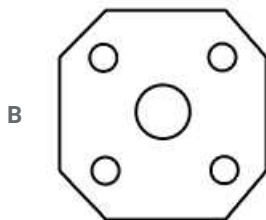
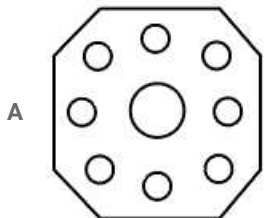
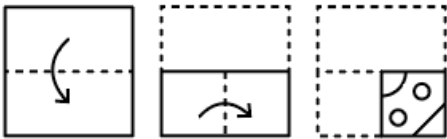
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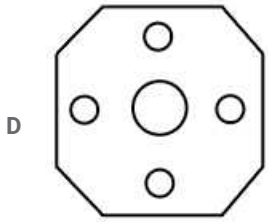
$$61 + 6^2 = 97 \text{ Ans}$$

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Question 35

A piece of paper is folded and cut as shown in the following figures. How would this paper look when unfolded?

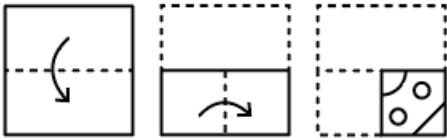




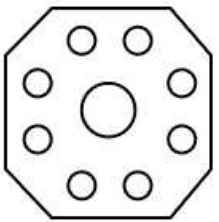
Answer: C

Explanation:

Given that A piece of paper is folded and cut as shown below



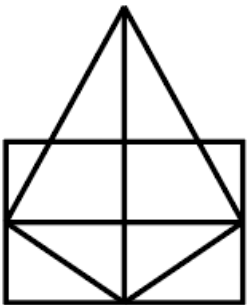
from the above figure, we can unfold the figure obtain



therefore Option (C)Ans

Question 36

How many triangles are present in the given figure?



A 17

B 10

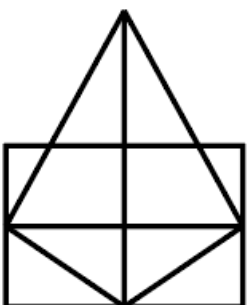
C 12

D 15

Answer: D

Explanation:

Given figure



if we count the triangle then

total triangle = 15 Ans

Question 37

Select the option in which the numbers share the same relationship as that shared by the given pair of numbers.
78-57

A 35 - 14

B 67 - 42

C 45 - 21

D 24 - 19

Answer: C

Explanation:

Given that 78-57

the above is follow the pattern $78-57 = 21$

in the same pattern $35 - 14 = 21$

therefore Option (A) same relationship

hence Option (A) Ans

SSC Stenographer Previous Papers (Latest Pattern)

Question 38

In a certain code language, G is written as S, L as A, A as O, O as N, N as E, E as G, H as L and S as H. How will HALOGENS be written in that code?

A LNAOSGEH

B LOANSGEH

C HOANSGEL

D HOENSGAH

Answer: B

Explanation:

Given Code is G is written as S, L as A, A as O, O as N, N as E, E as G, H as L and S as H

then HALOGENS is written as LOANSGEH

therefore LOANSGEH Ans

Question 39

Read the given statement and conclusions carefully. Assuming that the information given in the statement 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 statement.

Statement:

Most of the students usually fail to apply in practice what they studied on their courses in school and colleges because they studied the course just so they could pass the examination.

Conclusions:

I. Most of the students are just trying to pass the examination.

II. There is less emphasis on learning by teachers.

A Both conclusions I and II follow.

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

Answer: C

Explanation:

Given that **Statement:**

Most of the students usually fail to apply in practice what they studied on their courses in school and colleges because they studied the course just so they could pass the examination.

from the above statement, we check the **Conclusions:**

- I. Most of the students are just trying to pass the examination. follows
- II. There is less emphasis on learning by teachers. not follows

, therefore, the only conclusion I follow

Hence Option (C) Ans

Question 40

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

TRAMPOLINE : RTMAQPILEN :: BINOCULARS : ?

- A RSLAVDNOBI
- B ICONVDALSR
- C IBONUCALSR
- D IBONDVALSR

Answer: C

Explanation:

Given that TRAMPOLINE: RTMAQPILEN:: BINOCULARS:?

From the above, the pattern is followed by Two alphabet interchange your Position to each other and next and next and so on

then? = IB ON UC AL SR

, therefore? = IBONUCALSR Ans

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Question 41

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

1. Heist
2. Height
3. Heart
4. Hackle
5. Higher

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

Answer: A

Explanation:

From the given Words We arrange the order in the English dictionary

then it in order English dictionary 4. Hackle, 3. Heart, 2. Height, 1. Heist, 5. Higher

, therefore, 4, 3, 2, 1, 5 Ans

Question 42

In a certain code language, SCIENCE is written as 7-5-16-7-11-5-21. How will MUSEUM be written in that code language?

A 14-22-5-5-22-14

B 13-21-6-21-21-13

C 15-23-7-21-23-15

D 13-23-7-21-23-13

Answer: C

Explanation:

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

Given that SCIENCE is written as 7-5-16-7-11-5-21

we represent in the form of alphabet position

S C I E N C E

19 3 9 5 14 3 5

the pattern is followed from Right side to left side add +2 alphabet position

(5+2) (3+2) (14+2) (5+2) (9+2) (3+2) (19+2)

7 - 5 - 16 - 7 - 11 - 5 - 21

Similarly, MUSEUM be written in that code language

MUSEUM

13 21 19 5 21 13

the pattern is followed from Right side to left side add +2 alphabet position

(13+2) (21+2) (5+2) (19+2) (21+2) (13+2)

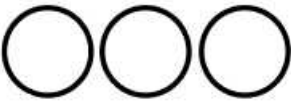
15 - 23 - 7 - 21 - 23 - 15 Ans

Question 43

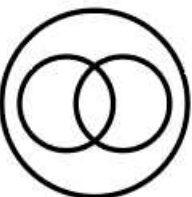
Select the Venn diagram that represents the correct relationship between the following classes:

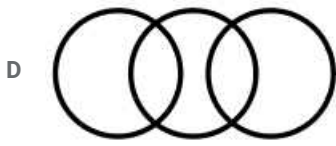
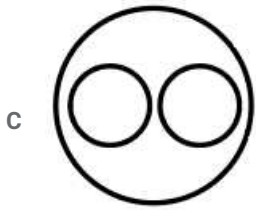
Table, Stationary, Carpet

A



B



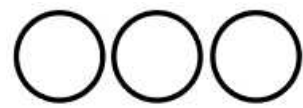


Answer: A

Explanation:

Given that Table, Stationary, Carpet

that follows its own property, therefore, Venn diagram is given below



Option (A) Ans

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Question 44

In a certain code, CATHODE is written as X5GS2W4. How will RELATION be written in that code?

A J401G32N

B I301G32M

C I405G32M

D J305G32M

Answer: A

Explanation:

We know that Vowel A E I O U be order in 5 4 3 2 1

Given that CATHODE is written as X5GS2W4

from the given code Vowel represent number position of the vowel from the above line and consonant represent the opposite alphabet

therefore RELATION code written as I405G32M

Ans. I405G32M

Question 45

Select the combination of mathematical signs that when sequentially placed in the blanks of the given equation will balance the equation.

$(157_13)_36_1_5$

A $+ \div - =$

B $- \div + =$

C $+ - \div =$

D $\div - + =$

Answer: B

Explanation:

Given that $(157_13)_{36_1_5}$

we check Option (A) $+ \div - =$

the above sign put in the given equation

$$(157 + 13) \div 36 - 1 = 5$$

From LHS $(157 + 13) \div 36 - 1$

$$\Rightarrow 170 \div 36 - 1$$

$$\Rightarrow 4.72 - 1$$

$$\Rightarrow 3.72 \text{ it is not satisfied RHS}$$

We check Option (B) $- \div + =$

we put above Sign in the expression

$$(157 - 13) \div 36 + 1 = 5$$

From LHS $(157 - 13) \div 36 + 1$

$$\Rightarrow 144 \div 36 + 1$$

$$\Rightarrow 4 + 1$$

$$\Rightarrow 5 \text{ RHS it is satisfied .}$$

therefore Option (B) $- \div + =$ Ans

Question 46

Select the option in which the words share the same relationship as that shared by the given set of words (in the same order).

Track : Train : Driver

A Road : Bus : Conductor

B Sea : Ship : Captain

C Sky : Pilot : Airhostess

D Field : Athlete : Pole

Answer: B

Explanation:

Given that Track: Train: Driver

in the above Train going on Track, train driven by a Driver.

in the same (B)Sea: Ship: Captain

therefore option (B) Ans

SSC Study Material

Question 47

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

>	o	x	#	o	x	?
x		o		@		

A

x	o
	%

B

x	o
	>

C

o	%
	x

D

%	o
	x

Answer: D

Explanation:

Given that

>	o	x	#	o	x	?
x		o		@		

from the above, the pattern is rotated clockwise symbols and one symbol is changed each rotation

then? =

%	o
	x

therefore Option (D) Ans

Question 48

Select the option that is related to the third term in the same way as the second term is related to the first term.
AQUARIUM : ZSREMONU :: HUMIDITY : ?

A IWJNYOMG

B GVJMXOMG

C GWJMYOMG

D IVJNYOMH

Answer: C

Explanation:

The Given that AQUARIUM: ZSREMONU:: HUMIDITY:?

from the Given AQUARIUM: ZSREMONU, the pattern is followed by A-1 = Z, Q- +2 = S, U-3 = R, A+4 = E, R-5 = M, I+6 = O, U-7 = N , M+8 = U then Same as HUMIDITY:?

$$\begin{aligned} \text{HUMIDITY} &= (\text{H}-1) (\text{U}+2)(\text{M}-3)(\text{I}+4)(\text{D}-5) (\text{I}+6)(\text{T}-7)(\text{Y}+8) \\ &= \text{G W J M Y O M G} \end{aligned}$$

therefore ? = GWJMYOMG Ans

Question 49

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



Answer: C

Explanation:

Given figure



From the above, the pattern followed symbol is shifted to Up then shifted to Right then shifted to down and every shifting one symbol add

then? =



therefore Option (C) Ans

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Question 50

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

- A OPR - JKL
- B BFX - YUC
- C PHJ - KSQ
- D RTV - IGE

Answer: A

Explanation:

Given option (B), (C), (D) is the pair opposite of the alphabet

(B) BFX-YUC

in this option B opposite alphabet Y, F opposite alphabet U, and X opposite alphabet C
then the BFX-YUC

Option (C) PHJ-KSQ

In the option P opposite alphabet K, H opposite alphabet S and J opposite alphabet Q

Option (D) RTV-IGE

in the option R opposite alphabet I, T opposite alphabet G and V opposite alphabet E

from the above B, C, D follows the same pattern

Option (A) OPR-JKL is different it does not follow the opposite alphabet

therefore option (A) OPR-JKL Ans

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General Knowledge and General Awareness

Instructions

For the following questions answer them individually

Question 51

The noted freedom fighter Saheed Laxman Nayak belonged to the state of _____.

- A Gujarat
- B Chhatisgarh
- C Uttar Pradesh
- D Odisha

Answer: D

Current Affairs Question and Answers (Download PDF)

Question 52

In October 2019, who received his 6th Golden Shoe as the top scorer in the European leagues?

- A Lionel Messi
- B Franz Beckenbauer
- C Cristiano Ronaldo
- D Johan Cruyff

Answer: A

Question 53

What is the periodicity of Halley's comet?

- A 30-31 years
- B 45-46 years
- C 85-86 years
- D 75-76 years

Answer: D

Question 54

With a view to have animal protection world over, several countries have been brought under the cover of CITES with effect from 26th August, 2019. What does 'E' stand for in the acronym?

- A Endangered
- B Evolutionary
- C Eco-friendly
- D Environmental

Answer: A

Daily and Monthly Current Affairs (Download PDF)

Question 55

Who among the following was a Gupta ruler?

- A Vima Kadphises
- B Vikramaditya
- C Dhana Nanda
- D Kanishka

Answer: B

Question 56

The painting of Bharat Mata was originally done by _____

- A Rabindranath Tagore
- B Jamini Roy
- C Nandalal Bose
- D Abanindranath Tagore

Answer: D

Question 57

Which Indian historian won Israel's prestigious Dan David Prize?

- A Sanjay Subrahmanyam
- B Mridula Mukherjee
- C Irfan Habib
- D Sumit Sarkar

Answer: A

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Question 58

Which of the following Articles of the Constitution of India provides for an independent office of the Comptroller and Auditor General (CAG) of India?

- A Article 148
- B Article 110
- C Article 343
- D Article 124

Answer: A

Question 59

Under the provisions of which Article of the Constitution of India, can the Bharat Ratna Award NOT be used as a prefix or suffix to the recipient's name?

- A Article 17(2)
- B Article 16(2)
- C Article 18(1)
- D Article 19(1)

Answer: C

Question 60

The SI (International system of units) unit of length is _____

- A metre
- B centimetre
- C millimetre
- D kilometre

Answer: A

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Question 61

Which former cricket player was appointed as the head of National Cricket Academy (NCA) in 2019?

- A Gautam Gambhir
- B Virender Sehwag
- C Ajay Jadeja
- D Rahul Dravid

Answer: D

Question 62

'Amar Sonar Bangla', the national anthem of Bangladesh was composed by

- A Rabindranath Tagore
- B Dwijendranath Tagore
- C Devendranath Tagore
- D Abanindranath Tagore

Answer: A

Question 63

Which of the following is working capital in the farming sector?

- A threshing machine
- B money
- C tractor
- D land

Answer: B

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Question 64

Which Indian cricketer has scored two test triple centuries?

- A Karun Nair
- B Virender Sehwag
- C Virat Kohli
- D Sunil Gavaskar

Answer: B

Question 65

Potassium is a chemical element with the symbol:

- A Na
- B S
- C Ca
- D K

Answer: D

Question 66

What is the term used for pollination by wind?

- A Endophily
- B Siciophily
- C Anemophily
- D Angioplasty

Answer: C

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Question 67

The Kharif season in India largely coincides with the _____

- A Southwest monsoon
- B Southeast monsoon
- C Northeast monsoon
- D Northwest monsoon

Answer: A

Question 68

In which year did the Tibetan Spiritual leader the Dalai Lama seek political asylum in India?

- A 1973

- B 1957
- C 1959
- D 1962

Answer: C

Question 69

Eight times world champion squash player Nicol David belongs to which country ?

- A Germany
- B Malaysia
- C Ghana
- D Argentina

Answer: B

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Question 70

Name the queen associated with the Maheshwari saree.

- A Ahilyabai Holkar
- B Lakshmibai
- C Kunti
- D Mehrunnisa

Answer: A

Question 71

The Securities and Exchange Board of India is located in:

- A Mumbai
- B Kolkata
- C Indore
- D Chandigarh

Answer: A

Question 72

With reference to the Biosphere Reserves of India, which of the following is NOT a Biosphere Reserve?

- A Achanakmar
- B Agasthyamalai
- C Dachigam

D Nokrek

Answer: A

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Question 73

During the 1857 Uprising, who among the following took up the leadership at Faizabad?

A Kunwar Singh

B Maulvi Ahmadullah

C Begum Hazarath Mahal

D Khan Bahadur

Answer: B

Question 74

Who is the author of the book the 'Ministry of Utmost Happiness'?

A Jhumpa Lahiri

B Arundhati Roy

C Anita Desai

D Amitav Ghosh

Answer: B

Question 75

The abolition of Dyarchy in the provinces was recommended by the _____

A Government of India Act of 1947

B Government of India Act of 1858

C Government of India Act of 1919

D Government of India Act of 1935

Answer: D

SSC CPO Previous Papers

Question 76

The line "Khoob lari mardani woh to Jhansi wali Rani thi", was written by _____.

A Subhadra Kumari Chauhan

B Suryakant Tripathi

C Mahadevi Verma

D Ramdhari Singh Dinkar

Answer: A

Question 77

Which of the following instruments can detect the presence of a current in a circuit?

A Galvanometer

B Sphygmomanometer

C Barometer

D Magnetometer

Answer: A

Question 78

In which year was the first Exchange-traded Index Derivative Contract traded on the Bombay Stock Exchange (BSE)?

A 2000

B 1994

C 1991

D 2004

Answer: A

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Question 79

Which one of the following is NOT a compound?

A Sodium Chloride

B Carbon Monoxide

C Iron

D Water

Answer: C

Question 80

Dhoti-Gamosa is the indigenous textile symbol of _____.

A Meghalaya

B Uttar Pradesh

C Nagaland

D Assam

Answer: D

Question 81

Within what pH range does the human body work?

- A 8.2 to 8.9
- B 6.0 to 6.2
- C 7.0 to 7.8
- D 9.3 to 9.6

Answer: C

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Question 82

What allows the government to meet the expenses of administration until the new parliament passes the Budget for the whole year?

- A Voice vote
- B Vote-on-account
- C Vote-on-adjustment
- D Electronic vote

Answer: B

Question 83

Who was the Chairman of the Second Backward Classes Commission?

- A BP Mandal
- B Jyotiba Phule
- C Babu Jagjivan Ram
- D Bhim Rao Ambedkar

Answer: A

Question 84

Which organisation publishes a Human Development Report?

- A WTO
- B ILO
- C World Bank
- D UNDP

Answer: D

SSC CGL Previous Papers (DOWNLOAD PDF)

Question 85

Who is the author of the book 'Arctic Home of the Vedas'?

- A Bipin Chandra Pal
- B Max Muller
- C Bal Gangadhar Tilak
- D Aurobindo Ghosh

Answer: C

Question 86

What is a Coppersmith Barbet?

- A A small herbivore
- B An insect
- C A carnivorous plant
- D A bird

Answer: D

Explanation:

The coppersmith barbet, also called crimson-breasted barbet and coppersmith, is an Asian barbet with crimson forehead and throat, known for its metronomic call that sounds similar to a coppersmith striking metal with a hammer. It is a resident bird in the Indian subcontinent and parts of Southeast Asia.

Question 87

Who among the following invented a device called PM 2.5 which when fitted near the silencer pipe in vehicles will curb air pollution?

- A Debayan Saha
- B Deepak Gupta
- C Nikesh Arora
- D Asha Sharma

Answer: A

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Question 88

The term 'Peninsula' means a piece of land surrounded by water on:

- A three sides
- B one side
- C two sides
- D four sides

Answer: A

Question 89

The Kaveri river rises in:

- A The Brahmagiri hills
- B The Trimbak hills
- C The Amarkantak plateau
- D Mahabaleshwar

Answer: A

Question 90

In which year was the coveted Dadasaheb Phalke Award instituted?

- A 1969
- B 1968
- C 1967
- D 1966

Answer: A

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Question 91

Which of the following is NOT a part of the Meghalaya Plateau ?

- A Jaintia Hills
- B Khasi Hills
- C Garo Hills
- D Palamu Hills

Answer: D

Question 92

The branch of geology that studies dinosaurs is called _____.

- A sophrology
- B petrology
- C paleontology
- D histology

Answer: C

Explanation:

Paleontology, also spelled palaeontology, scientific study of life of the geologic past that involves the analysis of plant and animal fossils, including those of microscopic size, preserved in rocks.

Question 93

With which gymnastics vaults style do we associate the name of Deepa Karmakar?

- A Handspring
- B Yurchenko
- C Produnova
- D Tsukahara

Answer: C

Explanation:

Karmakar is only the fifth woman in gymnastics history to land the **Produnova vault**, or the handspring double front. The Produnova is an artistic **gymnastics vault** consisting of a front handspring onto the vaulting horse and two front somersaults off.

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Question 94

The Third Round Table Conference was held in the year _____

- A 1932
- B 1931
- C 1933
- D 1930

Answer: A

Question 95

In which of the following Himalayan ranges is the Banihal Pass situated?

- A Great Himalayas
- B Pir Panjal
- C Ladakh
- D Zaskar

Answer: B

Question 96

Which acid makes the atmosphere of Venus have thick white and yellowish clouds?

- A Sulphuric acid
- B Nitric acid
- C Acetic acid
- D Hydrochloric acid

Answer: A

SSC Stenographer Previous Papers (Latest Pattern)

Question 97

In which novel did the National Song of India feature?

- A Sevasadan
- B Devi Chaudhurani
- C Anandamath
- D Durgeshnandini

Answer: C

Question 98

Which Article of the Indian Constitution gives right to minorities to establish and administer educational institutions?

- A Article 17
- B Article 32
- C Article 28
- D Article 30

Answer: D

Question 99

Who among the following made the first observation on Platinum as a catalyst and discovered similar triads of elements that led to the development of the Periodic Table of elements?

- A Dmitri Mendeleev
- B Hans Christian Oersted
- C Johann Wolfgang Dobereiner
- D Michael Faraday

Answer: C

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Question 100

The Mughal Sarai Railway Station has been renamed after _____.

- A Gopal Krishna Gokhale
- B Madan Mohan Malviya
- C Deen Dayal Upadhyaya
- D Ram Manohar Lohia

Answer: C

Quantitative Aptitude

Instructions

For the following questions answer them individually

Question 101

The internal length of a room is two times its breadth and three times its height. The total cost of painting its four walls at the rate of ₹25/m² is ₹3,600. What is the cost of laying a carpet on its floor at the rate of ₹90.50/m²?

- A ₹6,516
- B ₹7,240
- C ₹5,430
- D ₹5,970

Answer: A

Explanation:

let the height of room = x

According to question length = $2x$ and breadth = $\frac{3}{2}x$

$$\text{Area of walls} = \frac{3600}{25} = 144m^2$$

$$\text{then } 2(l + b)h = 144$$

$$\Rightarrow 2(3x + 2x) \times x = 144$$

$$\Rightarrow 2(6x + 3x)x = 144$$

$$\Rightarrow 2 \cdot 9x^2 = 144$$

$$\Rightarrow x^2 = \frac{144}{9} = 16$$

$$\Rightarrow x = 4$$

$$\text{cost of laying carpet} = l \times b \times 90.5$$

$$\Rightarrow 3 \times 4 \times \frac{3}{2} \times 4 \times 90.5$$

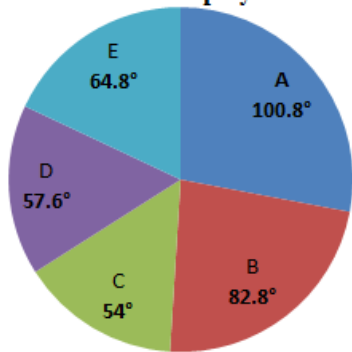
$$\Rightarrow 72 \times 90.5$$

$$\Rightarrow 6516 \text{ Ans}$$

Question 102

Study the pie-chart and answer the question.

Distribution (degree wise) of the total number of employees of a company in its five offices A, B, C, D & E
Total Number of employees = 9200



If 50% of the employees in office E are transferred to office D, then what percentage of the total number of employees of the company is the number of employees in office D?

- A 28
- B 25
- C 26
- D 30

Answer: B

Explanation:

In the company E employee = $\frac{64.8}{360} \times 9200$

$\Rightarrow 1656$

50% of E = $\frac{1656}{2} = 828$ (in due to transfer 50% of company E)

$\Rightarrow 828$

in company D Employee = $\frac{57.6}{360} \times 9200$

$\Rightarrow 1472$

Now employee in company D = $1472 + 828 = 2300$

then % = $\frac{2300}{9200} \times 100$

$\Rightarrow 25\%$ Ans

Question 103

On selling an article for ₹115, the gain is 20% more than the loss incurred on selling it for ₹104. If the article is sold for ₹130.80, then the profit percentage is:

- A 25
- B 18
- C 30

D 20

Answer: D

Explanation:

The selling price of article = Rs 115

If selling price would be = Rs 104

then gain = 20 % max

let the Cost price of article Rs x

$$\Rightarrow \frac{115 - x}{1} = 100 \times \frac{x - 104}{1}$$

$$\Rightarrow \frac{115 - x}{1} = 5 \times \frac{x - 104}{1}$$

$$\Rightarrow (115 - x) \times 5 = 6 \times (x - 104)$$

$$\Rightarrow 575 - 5x = 6x - 624$$

$$\Rightarrow 11x = 1119$$

$$\Rightarrow x = 109$$

If selling price would be = 130.80

profit = $130.80 - 109 = 21.80$

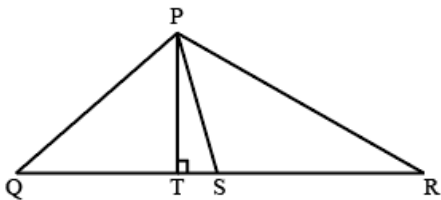
$$\frac{21.80}{109}$$

then profit % = $\frac{21.80}{109} \times 100$

= 20 % Ans

Question 104

In the Figure in $\triangle PQR$ $PT \perp QR$ at T and PS is the bisector of $\angle QPR$. If $\angle PQR = 78^\circ$, and $\angle TPS = 24^\circ$ then the measure of $\angle PRQ$ is



A 42°

B 39°

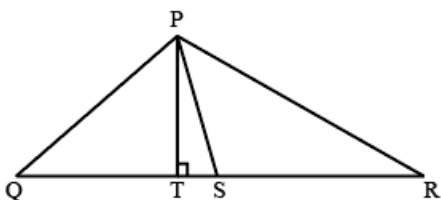
C 30°

D 40°

Answer: C

Explanation:

Given figure



$\triangle PQR$ $PT \perp QR$ at T and PS is the bisector of $\angle QPR$. If $\angle PQR = 78^\circ$, and $\angle TPS = 24^\circ$

In the $\triangle PQT$

$$90^\circ + 78^\circ + \angle QPT = 180^\circ$$

$$\Rightarrow \angle QPT = 180^\circ - 168^\circ$$

$$= 12^\circ$$

$$\text{then } \angle QPS = 12^\circ + 24^\circ$$

$$= 36^\circ$$

PS is bisect $\angle QPR$

$$\text{then } \angle SPR = 36^\circ$$

$$\text{In } \triangle PTS, 90^\circ + 24^\circ + \angle PST = 180^\circ$$

$$\angle PST = 180^\circ - 114^\circ$$

$$= 66^\circ$$

$$\text{the } \angle PST = \angle PRS + \angle RPS$$

$$66^\circ = 36^\circ + \angle PRQ$$

$$\Rightarrow \angle PRQ = 66^\circ - 36^\circ$$

$$\Rightarrow \angle PRQ = 30^\circ \text{ Ans}$$

SSC Daily Practice Set

Question 105

The sides of a triangular field are 120 m, 170 m and 250 m. The cost of levelling the field at the rate of ₹7.40/m² is:

A ₹65,120

B ₹63,640

C ₹59,200

D ₹66,600

Answer: D

Explanation:

sides of field $a=120\text{m}, b=170\text{m}, c=250\text{m}$.

$$\text{semiperimeter of field } s = \frac{a + b + c}{2}$$

$$\rightarrow s = \frac{120 + 170 + 250}{2} \text{ m}$$

$$\rightarrow s = 270 \text{ m}$$

$$\rightarrow s = 270\text{m}$$

area of field by heron's formula,

$$\rightarrow \text{area } A = \sqrt{s(s-a)(s-b)(s-c)} \text{ unit}^2$$

$$\rightarrow A = \sqrt{270(270-120)(270-170)(270-250)} \text{ m}^2$$

$$\rightarrow A = \sqrt{270 \times 150 \times 100 \times 20} \text{ m}^2$$

$$\rightarrow A = 9000 \text{ m}^2$$

$$\rightarrow \text{total cost} = 9000 \times 7.40 \text{ rs}$$

→= 66600rs

Question 106

ABCD is a cyclic quadrilateral in which AB = 15 cm, BC = 12 cm and CD = 10 cm. If AC bisects BD, then what is the measure of AD?

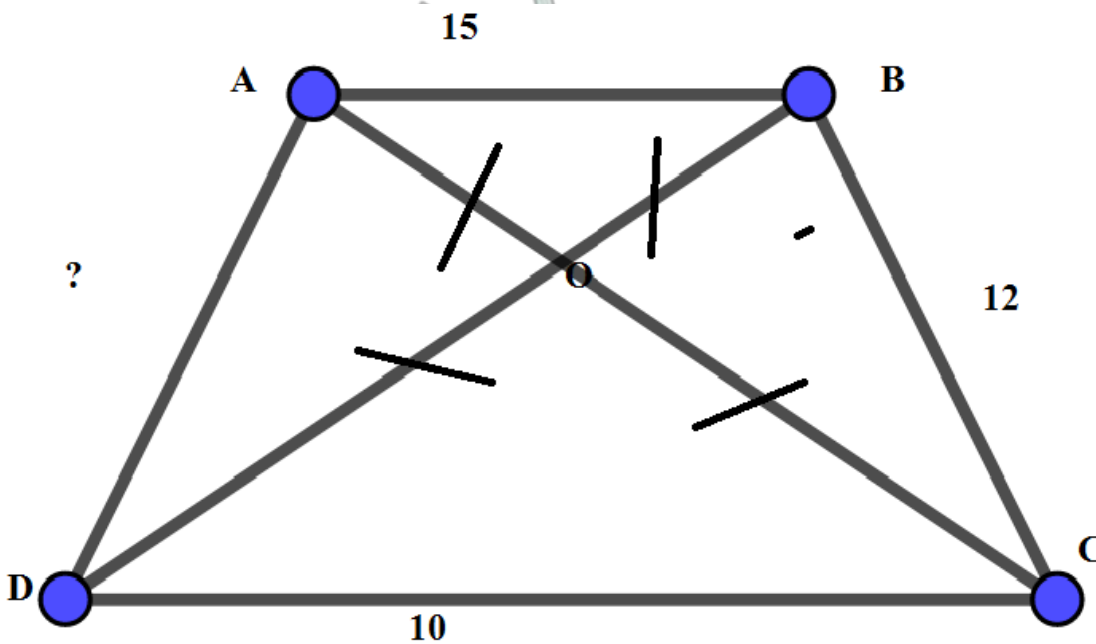
- A 15 cm
- B 13.5 cm
- C 18 cm
- D 20 cm

Answer: C

Explanation:

Given ABCD is a cyclic quadrilateral where AB=15,BC= 12,CD =10

is given below diagram



from the above diagram AC bisects BD

$\triangle ABE$ is similar $\triangle CDE$

$$\frac{AB}{AD} = \frac{DC}{BC}$$

$$\Rightarrow \frac{15}{AD} = \frac{10}{12}$$

$$\Rightarrow AD = \frac{15 \times 12}{10}$$

\Rightarrow AD = 18 cm

therefore Option (C) 18 cm Ans

Question 107

In a class, there are 54 students. $33\frac{1}{3}\%$ of the number of students are boys and rest are girls. The average score in mathematics of boys is 50% more than that of the girls. If the average score of all the students is 70, then what is the average score of the boys?

- A 81
- B 84

C 87

D 90

Answer: D

Explanation:

Number of student in class = 54

$$\text{number of boys} = \frac{1}{3} \text{ of student} = \frac{1}{3} \times 100 \times 54 = 18$$

then number of girls = $54 - 18 = 36$

Let Average score of girls = $10x$

$$\text{and average score of boys} = \frac{10x \times 150}{100} = 15x \text{ (according to question)}$$

average score of all student = 70

$$\text{total score of } 54 = 54 \times 70 = 3780$$

$$\text{total score of boys} = 18 \times 15x = 270x$$

$$\text{total score of girls} = 36 \times 10x = 360x$$

$$\text{according question } 270x + 360x = 3780$$

$$\Rightarrow x = 6$$

$$\text{Average score boy} = 15 \times 6 = 90 \text{ Ans.}$$

SSC GK Free Tests

Question 108

The value of $\frac{(0.321)^3 + (0.456)^3 - (0.777)^3}{0.9 \times (0.107)(0.76)(0.777)}$ is

A 60

B -6

C -3

D 30

Answer: B

Explanation:

$$\frac{(0.321)^3 + (0.456)^3 - (0.777)^3}{0.9 \times (0.107)(0.76)(0.777)}$$

$$\Rightarrow \frac{(0.321)^3 + (0.456)^3 - (0.321 + 0.456)^3}{0.9 \times (0.107)(0.76)(0.777)}$$

$$\Rightarrow \frac{(0.321)^3 + (0.456)^3 - [(0.321)^3 + (0.456)^3 + 3 \times (0.321)(0.456)(0.777)]}{0.9 \times (0.107)(0.76)(0.777)}$$

$$\Rightarrow \frac{-3 \times (0.321)(0.456)(0.777)}{0.9 \times (0.107)(0.76)(0.777)}$$

$$\Rightarrow \frac{-(0.321)(0.456)}{0.3 \times (0.107)(0.76)}$$

$$\Rightarrow \frac{-(0.321)(0.456)}{(0.321)(0.76)}$$

$$\Rightarrow \frac{-(0.456)}{(0.76)}$$

$$\Rightarrow -6$$

Question 109

If $x^2 - 4x + 1 = 0$, then what is the value of $(x^6 + x^{-6})$?

A 2786

B 2702

C 2716

D 2744

Answer: B

Explanation:

Given $x^2 - 4x + 1 = 0$ the $(x^6 + x^{-6}) = ?$

$$x^2 - 4x + 1 = 0$$

$$\Rightarrow x^2 - 4x = -1$$

$$\Rightarrow x(x - 4) = -1$$

$$\Rightarrow x - 4 = \frac{-1}{x}$$

$$\Rightarrow x + \frac{1}{x} = 4 \text{ (1)}$$

Taking cube of both side of the equation (1)

$$(x + \frac{1}{x})^3 = (4)^3$$

$$\Rightarrow x^3 + (\frac{1}{x})^3 + 3x(\frac{1}{x})(x + \frac{1}{x}) = 64$$

$$\Rightarrow x^3 + (\frac{1}{x})^3 + 3(4) = 64$$

$$\Rightarrow x^3 + (\frac{1}{x})^3 = 64 - 12$$

$$\Rightarrow x^3 + (\frac{1}{x})^3 = 52 \text{ (2)}$$

on squaring both side equation (2) both side

$$(x^3 + \frac{1}{x})^2 = (52)^2$$

$$\Rightarrow x^6 + (\frac{1}{x})^6 + 2 = 2704$$

$$\Rightarrow x^6 + (\frac{1}{x})^6 = 2704 - 2$$

$$\Rightarrow x^6 + (\frac{1}{x})^6 = 2702 \text{ Ans}$$

Question 110

3 men and 5 women together can complete a work in 6 days, whereas 4 men and 9 women together can do it in 4 days. How many women are required to do the same work in 7 days?

A 15

- B 12
- C 14
- D 10

Answer: B

Explanation:

Let a man work of one day = x

and a women work of one day = y

then according to question $x + y = 6$ equation (1)

and $x + y = 4$ equation (2)

we multiply in question (1) by 4 and question (2) by 3

$$4x + 4y = 24 \quad \text{..... equation(3)}$$

$$3x + 3y = 12 \quad \text{.....equation (4)}$$

we subtract question (3) - euestion (4)

$$x = 12$$

$\Rightarrow y = 12$ remove - sign both side

$$y = 12$$

$$\Rightarrow y = 84$$

one women work in = 84 day

$$\text{then 7 women} = \frac{84}{7} = 12 \text{ days Ans}$$

Current Affairs Question and Answers (Download PDF)

Question 111

The value of $5 - 2 \div 4 \times [5 - (3 - 4)] + 5 \times 4 \div 2$ of 4

- A 8
- B 9
- C 15
- D 89

Answer: A

Explanation:

$$5 - 2 \div 4 \times [5 - (3 - 4)] + 5 \times 4 \div 2 \text{ of } 4$$

$$4 + 4 \div 8 \text{ of } 2 \times (8 - 5) \times 2 \div 3 - 8 \div 2 \text{ of } 8$$

$$5 - 2 \div 4 \times [5 - (-1)] + 5 \times 4 \div 2 \text{ of } 4$$

$$\Rightarrow 4 + 4 \div 8 \text{ of } 2 \times (3) \times 2 \div 3 - 8 \div 2 \text{ of } 8$$

$$5 - 2 \div 4 \times 6 + 5 \times 4 \div 8$$

$$\Rightarrow 4 + 4 \div 16 \times 3 \times 2 \div 3 - 8 \div 16$$

$$5 - 1/2 \times 6 + 5 \times 1/2$$

$$\Rightarrow 4 + 1/4 \times 3 \times 2/3 - 1/2$$

$$5 - 3 + 5/2$$

$$\Rightarrow 4 + 1/2 - 1/2$$

$$9/2$$

$$\Rightarrow 4$$

$$9$$

$$\Rightarrow 8$$

Question 112

A right circular cylinder of maximum possible size is cut out from a solid wooden cube. The remaining material of the cube is what percentage of the original cube? (Take $\pi = 3.14$)

- A 22.4
- B 21.5
- C 22.8
- D 21.8

Answer: B

Explanation:

let side of cube x unit.

if size of cylinder is max, height(h) and diameter(d) of cylinder will be x unit,

radius, $r = d/2$

$$\rightarrow r = x/2$$

$$\text{volume of cylinder} = \pi r^2 h$$

$$= \pi (x/2)^2 x$$

$$= \pi \frac{x^3}{4}$$

volume of remaining material of cube = original volume of cube - volume of cylinder

$$= x^3 - \pi \frac{x^3}{4}$$

$$= x^3 (1 - \frac{\pi}{4}) \text{ unit}^3$$

$$\text{required percentage} = \frac{\text{volume of remaining material} \times 100}{\text{original volume of cube}}$$

$$\rightarrow = \frac{x^3 (1 - \pi/4)}{x^3} \times 100$$

$$\rightarrow = (1 - \frac{\pi}{4}) \times 100$$

$$\begin{aligned} & \rightarrow = \frac{3.14}{4} \times 100 \\ & \rightarrow = \frac{314}{4} \\ & \rightarrow = \frac{400 - 314}{4} \\ & \rightarrow = \frac{86}{4} \\ & \rightarrow = 21.5 \end{aligned}$$

Question 113

A person bought an article at 30% discount on its marked price. The person then sold it at 30% profit for ₹427.70. What was the marked price of the article?

- A ₹470
- B ₹450
- C ₹500
- D ₹480

Answer: A

Explanation:

Given, %profit = 30%, S.P. = 427.70 rs, discount% = 30%

Let C.P. of article is x rs.

profit = 30% of c.p.

$$\text{profit} = \frac{30x}{100}$$

$$\text{profit} = \frac{30x}{100}$$

$$\text{profit} = \frac{3x}{10}$$

$$\text{profit} = S.P. - C.P.$$

$$\frac{3x}{10} = 427.70 - x$$

$$\frac{3x}{10} + x = 427.70$$

$$\frac{13x}{10} = 427.70$$

$$13x = 4277$$

$$x = \frac{4277}{13}$$

$$x = 329 \text{rs.}$$

C.P. = MP - discount

CP = 70% OF MP

$$329 = \frac{70MP}{100}$$

$$MP = \frac{329 \times 100}{70}$$

MP=470 rs.

Daily and Monthly Current Affairs (Download PDF)

Question 114

The average of 19 numbers is 22.8. The average of the first ten numbers is 18.4 and that of the last ten numbers is 28.6. If the 10th number is excluded from the given numbers, then what is the average of the remaining numbers? (Your answer should be nearest to an integer.)

- A 21
- B 23
- C 22
- D 20

Answer: C

Explanation:

The Average of 19 numbers = 22.8

so sum of 19 numbers = $22.8 \times 19 = 433.2$

The average of first 10 number = 18.4

so, sum of first 10 number = $18.4 \times 10 = 184$

The Average of last 10 number = 28.6

the sum of last 10 number = $28.6 \times 10 = 286$

sum of all number + 10th number (except 10th number) + 2time 10th number = $184 + 286 = 470$

sum of all number + 10th number = 470

$\Rightarrow 433.2 + 10\text{th number} = 470$

10th number = $470 - 433.2 = 36.8$

sum of 18th number including 10th number = $433.2 - 36.8 = 396.4$

the Average = $\frac{396.4}{18} = 22.02222 = 22$ Ans

Question 115

How many natural numbers up to 2001 are divisible by 3 or 4 but not 5?

- A 768
- B 801
- C 934
- D 1067

Answer: B

Question 116

A student was asked to find the value of $(2\frac{1}{3} + 2\frac{1}{2} - \frac{1}{6}) \div 2\frac{1}{3} \times 5\frac{2}{3} \div 1\frac{2}{3}$ of $4\frac{1}{4}$. His answer was $\frac{6}{7}$. what is the difference between correct answer and his answer?

A $\frac{9}{14}$

B $\frac{5}{14}$

C $\frac{11}{49}$

D $\frac{6}{49}$

Answer: D

Explanation:

As per the question,

$$\left(2\frac{1}{3} + 2\frac{1}{2} - 6\right) \div 2\frac{1}{3} \times 5\frac{2}{3} \div 1\frac{2}{3} \text{ of } 4\frac{1}{4}$$

$$\frac{3\frac{1}{5} \div 4\frac{1}{2} \text{ of } 5\frac{1}{3} + 5\frac{1}{3} \times 4 \div 2\frac{2}{3}}$$

$$\Rightarrow \left(2\frac{1}{3} + 2\frac{1}{2} - 6\right) \div 2\frac{1}{3} \times 5\frac{2}{3} \div 3 \text{ of } \frac{17}{4}$$

$$\frac{3\frac{1}{5} \div 2 \text{ of } \frac{16}{3} + 5\frac{1}{3} \times 4 \div 2\frac{2}{3}}$$

$$\Rightarrow \left(2\frac{1}{3} + 2\frac{1}{2} - 6\right) \div 2\frac{1}{3} \times 5\frac{2}{3} \div \frac{119}{12}$$

$$\frac{3\frac{1}{5} \div 24 + 5\frac{1}{3} \times 4 \div 2\frac{2}{3}}$$

$$\Rightarrow \left(\frac{7}{3} + \frac{5}{2} - 6\right) \div \frac{7}{16} \times \frac{17}{3} \div \frac{119}{12}$$

$$\frac{5 \div 24 + \frac{1}{3} \times 4 \div 3}$$

$$\Rightarrow \left(\frac{28}{6}\right) \div \frac{7}{2} \times \frac{17}{16} \div \frac{119}{9}$$

$$\frac{15 + 3 \times 8}$$

$$\Rightarrow \frac{17 \times 12}{2 \times 3 \times 119}$$

$$\frac{2}{15 + 3 \times 8}$$

$$\Rightarrow 2 \times \frac{17 \times 12 \times 15}{3 \times 119 \times 92}$$

$$\Rightarrow \frac{12 \times 5}{7 \times 41} = \frac{60}{287}$$

$$\text{Hence the required difference} = \frac{6}{7} - \frac{60}{287} = \frac{246 - 60}{287}$$

$$= \frac{246 - 60}{287} = \frac{186}{287}$$

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Question 117

A ladder leaning against a window of a house makes an angle of 60° with the ground. If the distance of the foot of the ladder from the wall is 4.2 m, then the height of the point, where the ladder touches the window from the ground is Closest to:

A 7.3 m

B 6.8 m

C 7.8 m

D 7 m

Answer: A

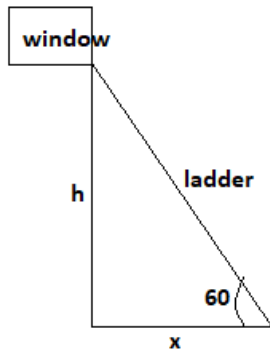
Explanation:

As per the given question,

The ladder is making 60° with the ground

and the foot of the ladder is (x)=4.2m from the wall.

Height of the wall till window (h)=?



We know that $\tan \theta = \frac{h}{x}$

$$\tan 60^\circ = \frac{h}{4.2}$$

$$x = \sqrt{3} \times 4.2 = 1.732 \times 4.2 \approx 7.3m$$

Question 118

In $\triangle ABC$, $\angle C = 90^\circ$. M and N are the mid-points of sides AB and AC, respectively. CM and BN intersect each other at D and $\angle BDC = 90^\circ$. If BC = 8 cm, then the length of BN is:

- A $6\sqrt{3}$ cm
- B $6\sqrt{6}$ cm
- C $4\sqrt{6}$ cm
- D $8\sqrt{3}$ cm

Answer: D

Question 119

A train of length 342 m is running at 54 km/h. In how much time(in seconds) will it cross a bridge of length 438 m?

- A 48
- B 50
- C 54
- D 52

Answer: D

Explanation:

As per the question,

Length of the train=342m

$$\text{The velocity of the train } (v) = 54 \text{ km/hour} = \frac{54 \times 1000}{3600} = 15 \text{ m/sec}$$

Length of the bridge $l = 438m$

Total time will take to cross length = $342 + 438 = 780$

$$\text{Hence, time } (t) = \frac{780}{15} = 52 \text{ m/sec}$$

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Question 120

A, B, and C started a business. A invested $33\frac{1}{3}\%$ of the total capital. B invests $33\frac{1}{3}\%$ of the remaining capital and C, the remaining. If the total profit at the end of the year was ₹ 20,250 then the profit of C exceeds the profit of B by

A ₹5,200

B ₹4,500

C ₹6,750

D ₹2,700

Answer: B

Explanation:

Let the total capital invested capital = x Rs.

$$\text{Share of A in the total capital} = \frac{1}{3} \times 100 = \frac{100x}{3} = 33\frac{1}{3}\%$$

$$\text{So, remaining} = x - \frac{100x}{3} = \frac{2x}{3}$$

$$\text{Share of B in the total capital} = \frac{2x}{3} \times 33\frac{1}{3}\% = \frac{2x \times 100}{3 \times 3} = \frac{200x}{9}$$

$$\text{Share of C in the total capital} = \frac{x - \frac{100x}{3} - \frac{200x}{9}}{9} = \frac{9x - 300x - 200x}{81} = \frac{4x}{9}$$

Hence ratio in the investment = 3 : 2 : 4

$$\text{Hence the share of C in the profit} = \frac{4 \times 20250}{9} = 9000 \text{ Rs}$$

$$\text{Hence the share of B in the profit} = \frac{2 \times 20250}{9} = 4500$$

Hence the profit of C exceeds by the profit of B = 9000 - 4500 = 4500

Question 121

The LCM of 165, 176, 385 and 495 is k. When is divided by the HCF of the numbers, the quotient is p. What is the value of p?

A 2520

B 5040

C 6720

D 3360

Answer: B

Explanation:

As per the given question,

Numbers are 165, 176, 385 and 495

$$\text{LCM of the above} = 2 \times 3 \times 5 \times 7 \times 8 \times 9 \times 11 = 55440 = K$$

HCF of the given number = 11

$$\text{Now, LCM is getting divided by HCF} = \frac{55440}{11} = 5040$$

Question 122

The ratio of expenditure and savings of a person is 5 : 3. If the income increases by 20% and the expenditure increases by 10%, then the person's savings increase by:

- A $36\frac{2}{3}\%$
- B $33\frac{1}{3}\%$
- C $13\frac{2}{3}\%$
- D $30\frac{1}{3}\%$

Answer: A

Explanation:

As per the given question,

The ratio in the expenditure and saving = 5:3

So, let the expenditure = 5x and saving = 3x

So, income = 5x+3x=8x

Now, income getting increase by 20% hence new income will be = $\frac{120 \times 8x}{100} = 9.6x$

expenditure is getting increase by 10%, hence new expenditure = $\frac{5x \times 110}{100} = 5.5x$

Hence, new saving = $9.6x - 5.5x = 4.1x$

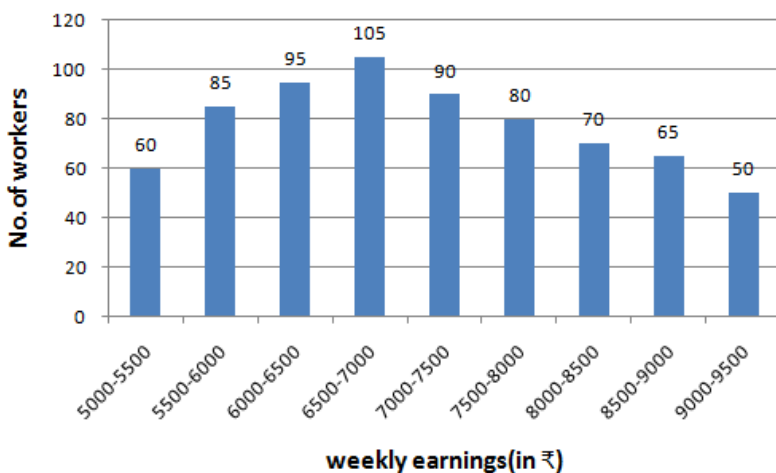
Hence, increase in the saving = $\frac{(4.1x - 3x) \times 100}{3x} = \frac{1.1x \times 100}{3x} = 36\frac{2}{3}\%$

SSC CHSL Previous Papers (DOWNLOAD PDF)

Question 123

Study the graph and answer the question.

Weekly earnings (in ₹) of workers in a factory



The number of workers in the factory whose weekly earnings are below ₹7,000 is what percentage more than the Number of workers whose weekly earnings are ₹7,000 or above but less than ₹8,500?

- A 43.75
- B 42.50

C 44.25

D 45.25

Answer: A

Explanation:

As per the given question,

Number of workers in the company, whose weekly earning below to 7000Rs = $60+85+95+105=345$

Number of workers in the company whose weekly earning 7000Rs or above but less than 8500Rs = $90+80+70=240$

$$(345 - 240) \times 100$$

hence the required percentage $\frac{240}{345} = 43.75\%$

Question 124

A pole of length 7 m is fixed vertically on the top of a tower. The angle of elevation of the top of the pole observed from a point on the ground is 60° and the angle of depression of the same point on the ground from the top of the tower is 45° . The height (in m) of the tower is:

A $7(2\sqrt{3} - 1)$

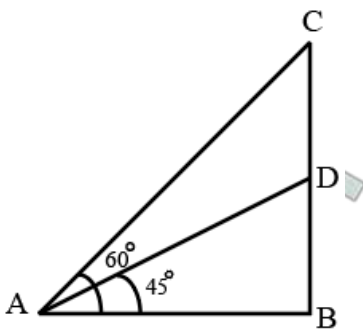
B $\frac{7}{2}(\sqrt{3} + 2)$

C $7\sqrt{3}$

D $\frac{7}{2}(\sqrt{3} + 1)$

Answer: D

Explanation:



As per the given question,

Length of the pole is $DC=7\text{m}$

The angle of elevation of the top of the pole to ground = 60°

The angle of elevation of the top of the tower = 45°

BC

Now, $\tan 60^\circ = \frac{BC}{AB}$

BC

$\Rightarrow \sqrt{3} = \frac{BC}{AB}$

BC

$\Rightarrow AB = \frac{BC}{\sqrt{3}} \dots \dots \dots (i)$

Now, In the $\triangle ABD$

BD

$\Rightarrow \tan 45^\circ = \frac{BD}{AB}$

BD

$\Rightarrow 1 = \frac{BD}{AB}$

$$\Rightarrow AB = BD \text{ --- (ii)}$$

From (i) and (ii)

$$DC + BD$$

$$\Rightarrow BD = \sqrt{3}$$

$$7 + BD$$

$$\Rightarrow BD = \sqrt{3}$$

$$\Rightarrow BD\sqrt{3} = 7 + BD$$

$$\Rightarrow BD(\sqrt{3} - 1) = 7$$

$$7$$

$$\Rightarrow BD = \sqrt{3} - 1$$

$$7(\sqrt{3} + 1)$$

$$\Rightarrow BD = (\sqrt{3} - 1)(\sqrt{3} + 1)$$

$$7(\sqrt{3} + 1)$$

$$\Rightarrow BD = 3 - 1$$

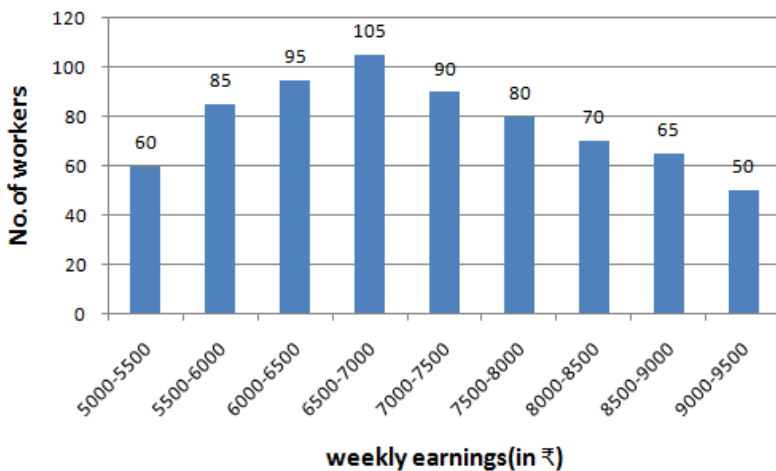
$$7(\sqrt{3} + 1)$$

$$\Rightarrow BD = 2$$

Question 125

Study the graph and answer the question.

Weekly earnings (in ₹) of workers in a factory



What percentage of total number of workers in the factory is the number of workers whose weekly earnings are ₹6,500 or above but less than ₹8,500? (Your answer should be correct to one decimal place.)

- A 50.2
- B 42.6
- C 35.8
- D 49.3

Answer: D

Explanation:

Total number of the employee, whose salary is greater than 6500 but less than 8500Rs = 105 + 90 + 80 + 70 = 345

Total number of employee = 60 + 85 + 95 + 105 + 90 + 80 + 70 + 65 + 50 = 700

Hence, the required percentage = $\frac{345 \times 100}{700} = 49.3\%$

SSC CHSL Free Mock Test (Latest Pattern)

Question 126

A is 75% less than B and C is 75% of the difference between A and B. C is what percentage more than A?

- A 125
- B 100
- C 75
- D 90

Answer: A

Explanation:

As per the question,

Let B is = 100

So, as per the condition, A is 75% less than B, so A=25

As per the condition, c = $\frac{(A - B) \times 75}{100} = \frac{(100 - 25) \times 75}{100} = \frac{225}{4}$

Hence, the required percentage = $\frac{(225 - 100) \times 100}{100} = 125$

Question 127

In a test consisting of 120 questions, Anuradha answered 65% of the first 60 questions correctly. What percentage of the remaining questions does she need to answer correctly to score 75% in the test?

- A 80
- B 85
- C 84
- D 90

Answer: B

Explanation:

To score 75%, the total number of question need to be correct = $\frac{120 \times 75}{100} = 90$

In the first 60 questions, the corrected answer percentage = $\frac{60 \times 65}{100} = 39$

Hence, the remaining number of questions, need to be correct = $90 - 39 = 51$

Remaining questions, need to attempt = 60

Hence, the corrected answer percentage should be = $\frac{51 \times 100}{60} = 85\%$

Question 128

Taps A and can fill a tank in 15 minutes and 10 minutes, respectively while tap C can empty the full tank in x minutes. If all the three taps are opened together, the tank is filled completely in 8 minutes. Tap C alone will empty on part of the tank in 5 Tap calone will empty $\frac{3}{8}$ th part of the tank in:

- A 10 minutes
- B $10\frac{1}{2}$ minutes
- C 9 minutes
- D $8\frac{1}{2}$ minutes

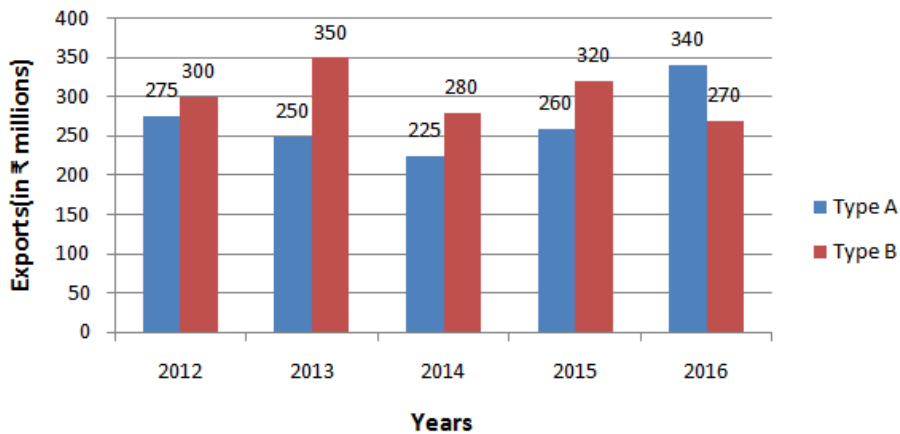
Answer: C

Free SSC Study Material (18,000 Solved Questions)

Question 129

Study the graph and answer the question.

Exports (in ₹ millions) of cars of Type A and Type B over the years



In which year, were the exports of type B cars exactly 20% more than the exports of type A cars in 2014?

- A 2015
- B 2016
- C 2012
- D 2013

Answer: B

Explanation:

As per the given data in the question,

Exports of type A car in 2014 = 225

$$225 \times 20$$

The 20% of 225 = $100 = 45$

Hence total exports of the type A car = $225 + 45 = 270$

So, in 2016, the total exports of the type B car are exactly 20% greater than the type A car in 2014.

So, the correct answer should be an option B.

Question 130

If r is the remainder 2013 when each of 6454, 7306 and 8797 is divided by the greatest number d ($d > 1$), then $(d-r)$ is equal to:

- A 126
- B 64
- C 137
- D 149

Answer: D

Explanation:

Let the numbers are $6454 - r, 7306 - r, 8797$

Hence, the HCF of the number $(7306 - 6454), (8797 - 7306), (8797 - 6454)$

$$852 = 2 \times 2 \times 3 \times 71$$

$$1491 = 3 \times 71 \times 7$$

$$2343 = 3 \times 71 \times 11$$

Hence, the HCF $d = 3 \times 71 = 213$

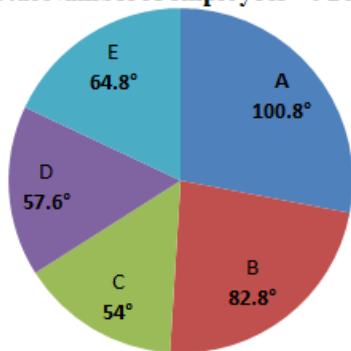
Now, $213 \times 3 + 64$

So, $r=64$, Hence, the required number $= d - r = 213 - 64 = 149$.

Question 131

Study the pie-chart and answer the question.

Distribution (degree wise) of the total number of employees of a company in its five offices A, B, C, D & E
Total Number of employees = 9200



Total number of employees of the company in offices C and D exceeds the number of employees in office B by x, where X lies between:

- A 720 and 740
- B 680 and 700
- C 700 and 720
- D 740 and 760

Answer: A

Explanation:

As per the given data,

$$\text{Total number of the employee in the office C} = \frac{54 \times 9200}{360} = 3 \times 460 = 1380$$

$$\text{Total number of employee in the office D} = \frac{57.6 \times 9200}{360} = 1472$$

$$\text{Total number of employee in office B} = \frac{82.8 \times 9200}{360} = 2116$$

$$\text{Hence, the required value of } (1380 + 1472) - 2116 = 736$$

Hence option B is the correct answer.

SSC CPO Free Mock Test (Latest Pattern)

Question 132

Pipe A and B can empty a full tank in 18 hours and 24 hours, respectively. Pipe C alone can fill the tank in 36 hours. If the tank is $\frac{5}{6}$ full and all the three pipes

A $10\frac{1}{2}$

B $12\frac{1}{2}$

C 10

D 12

Answer: D

Explanation:

As per the given question,

A can fill the tank in = 18 hours

B can fill the tank in = 24 hours

C can empty the tank in 36 hours

$$\text{If all the three are opened, then the tank will fill in 1 hour} = \frac{1}{18} + \frac{1}{24} - \frac{1}{36} = \frac{4 + 3 - 2}{72} = \frac{5}{72}$$

$$\text{The tank will be filled in} = \frac{72}{5}$$

$$\text{Hence } \frac{5}{6} \text{ will be filled in} = \frac{5}{6} \times \frac{72}{5} = 12 \text{ hours.}$$

Question 133

If $3(\cot^2 \theta - \cos^2 \theta) = 1 - \sin^2 \theta$, $0^\circ < \theta < 90^\circ$, then the θ equal to

A 30°

B 60°

C 45°

D 15°

Answer: B

Explanation:

$$3(\cot^2 \theta - \cos^2 \theta) = 1 - \sin^2 \theta, 0^\circ < \theta < 90^\circ$$

$$\Rightarrow 3(\sin^2 \theta - \cos^2 \theta) = 1 - \sin^2 \theta$$

$$\Rightarrow 3 \cos^2 \theta \left(\frac{1 - \sin^2 \theta}{\sin^2 \theta} \right) = 1 - \sin^2 \theta$$

$$\Rightarrow \tan^2 \theta = 3$$

$$\Rightarrow \tan \theta = \sqrt{3} = \tan 60^\circ$$

$$\theta = 60^\circ$$

Question 134

If $(x^3 + \frac{1}{x^3} - k)^2 + (x + \frac{1}{x} - p)^2 = 0$ where k and p are real numbers and $x \neq 0$, then $\frac{k}{p}$ is equal to:

A $P^2 + 1$

B $P^2 + 3$

C $P^2 - 1$

D $P^2 - 3$

Answer: D

Explanation:

$$(x^3 + \frac{1}{x^3} - k)^2 + (x + \frac{1}{x} - p)^2 = 0$$

It will be zero, if the individual terms will be zero.

$$\text{So, } (x^3 + \frac{1}{x^3} - k)^2 = 0 \text{ and } (x + \frac{1}{x} - p)^2 = 0$$

$$\text{So, } k = x^3 + \frac{1}{x^3} \text{ and } (x + \frac{1}{x} - p)^2 = 0$$

$$k = x^3 + \frac{1}{x^3} \text{ and } (x + \frac{1}{x}) = p$$

Now, $(x + \frac{1}{x}) = p$ taking cube of both side,

$$\Rightarrow (x + \frac{1}{x})^3 = p^3$$

$$\Rightarrow x^3 + \frac{1}{x^3} + 3(x + \frac{1}{x}) = p^3$$

Now substituting the values in the above,

$$\Rightarrow k + 3p = p^3$$

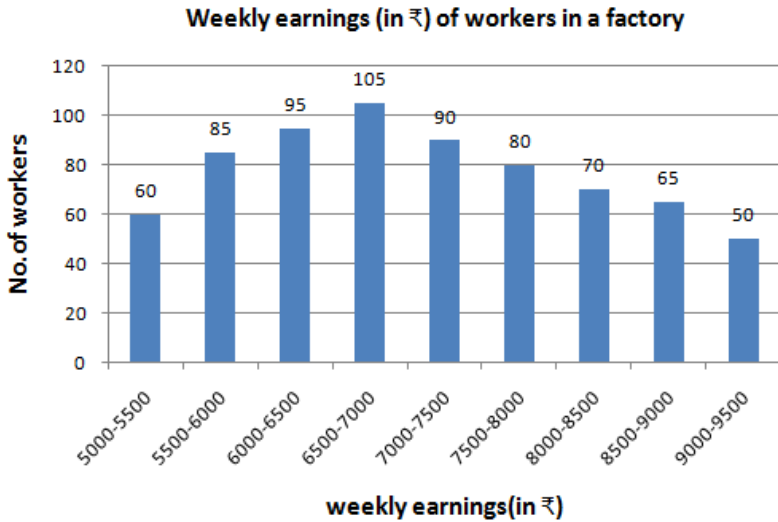
$$\Rightarrow k = p^3 - 3p$$

$$\Rightarrow \frac{k}{p} = p^2 - 3$$

SSC CPO Previous Papers

Question 135

Study the graph and answer the question.



The number of workers in the factory whose weekly earnings are ₹5,500 or more but less than ₹7,500 is:

- A 375
- B 285
- C 345
- D 240

Answer: A

Explanation:

As per the given data in the question,

The minimum earning = 5500Rs.

Maximum earning = 7500

From the above observations,

Total number of employee = $85 + 95 + 105 + 90 = 375$

Question 136

If $x^4 + x^2y^2 + y^4 = 133$ and $x^2 - xy + y^2 = 7$, then what is the value of xy ?

- A 8
- B 12
- C 4
- D 6

Answer: D

Explanation:

As per the given question,

$$x^4 + x^2y^2 + y^4 = 133 \text{ --- (i)}$$

$$x^2 - xy + y^2 = 7 \text{ --- (ii)}$$

Taking the square of the equation (ii)

$$\Rightarrow (x^2 - xy + y^2)^2 = 7^2$$

$$\Rightarrow x^4 + x^2y^2 + y^4 + 2(-x^3y - y^3x + x^2y^2) = 49$$

$$\Rightarrow 133 - 2xy(x^2 - xy + y^2) = 49$$

$$\Rightarrow 133 - 2xy \times 7 = 49$$

$$\Rightarrow 2xy \times 7 = 133 - 49$$

$$\Rightarrow 14xy = 84$$

$$\Rightarrow xy = 6$$

Question 137

The value of $\tan^2 48^\circ - \operatorname{cosec}^2 42^\circ + \operatorname{cosec}(67^\circ + \theta) - \sec(23^\circ - \theta)$ is:

A -1

B 0

C 1

D -2

Answer: A

Explanation:

$$\tan^2 48^\circ - \operatorname{cosec}^2 42^\circ + \operatorname{cosec}(67^\circ + \theta) - \sec(23^\circ - \theta)$$

Now, we know that $\operatorname{cosec}(90^\circ - \theta) = \sec \theta$

$$\text{So, } \tan^2 48^\circ - \sec^2(90^\circ - 42^\circ) + \operatorname{cosec}(67^\circ + \theta) - \sec(23^\circ - \theta)$$

$$\Rightarrow \tan^2(48^\circ) - \sec^2(48^\circ) + \operatorname{cosec}(67^\circ + \theta) - \operatorname{cosec}(90^\circ - (23^\circ - \theta))$$

$$\Rightarrow \tan^2(48^\circ) - \sec^2(48^\circ) + \operatorname{cosec}(67^\circ + \theta) - \operatorname{cosec}(67^\circ - \theta)$$

$$\Rightarrow -1$$

1500 + Free Must Solved SSC Questions (With Solutions)

Question 138

The value of $\sqrt{9 - 2\sqrt{11 - 6\sqrt{2}}}$ is closest to:

A 2.7

B 2.9

C 2.4

D 2.1

Answer: C

Explanation:

$$\sqrt{9 - 2\sqrt{11 - 6\sqrt{2}}}$$

As per the given data,

$$\Rightarrow 6\sqrt{2} = 6 \times 1.414 = 8.484$$

$$\text{Now, } \sqrt{9 - 2\sqrt{11 - 8.484}}$$

$$\Rightarrow \sqrt{9 - 2\sqrt{2.526}}$$

$$\Rightarrow \sqrt{9 - 2 \times 1.589} = 2.4$$

Question 139

Two chords AB and CD of a circle intersect each other at P internally. If AP = 3.5 cm, PC = 5 cm, and DP = 7 cm, then what is the measure of PB?

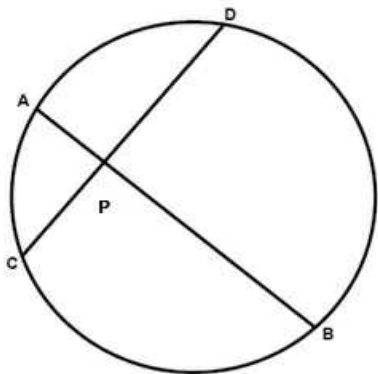
- A 8 cm
- B 12 cm
- C 10 cm
- D 10.5 cm

Answer: C

Explanation:

As per the given question,

AP=3.5cm, DP=7cm, PC=5cm, PB=?



We know that if two chords internally intersecting each other at point P.

$$\text{So, } AP \times PB = CP \times PD$$

Now, substitute the values in the equation,

$$\Rightarrow 3.5 \times PB = 5 \times 7$$

$$5 \times 7$$

$$\Rightarrow PB = \frac{5 \times 7}{3.5} = 10\text{cm}$$

Question 140

The marked price of a washing machine is ₹7,200. If it is sold for ₹5,512.50 after two successive discounts of x % each. The value of x is

- A 12
- B 12.5
- C 10.5
- D 15

Answer: B

Explanation:

As per the given condition in the question,

The marked price of washing machine = ₹7200Rs.

Sold price of washing machine = 5512.5Rs

Discount = $x\%$

$$\text{So, } \frac{7200 \times (100 - x)(100 - x)}{100 \times 100} = 5512.50$$

$$\Rightarrow \frac{72 \times (100 - x)^2}{100} = 5512.5$$

$$\Rightarrow (100 - x)^2 = \frac{5512.5 \times 100}{72}$$

$$\Rightarrow (100 - x)^2 = 7656.25$$

$$\Rightarrow 100 - x = 87.5$$

$$\Rightarrow x = 100 - 87.5 = 12.5\%$$

SSC CGL Free Mock Test (Latest Pattern)

Question 141

The compound interest on a certain sum invested for 2 years at 10% per annum is ₹1,522.50, the interest being compounded yearly. The sum is:

- A ₹7,250
- B ₹7,200
- C ₹7,500
- D ₹7,000

Answer: A

Explanation:

Let the amount = P

$$\text{So, } A = P(1 + \frac{R}{100})^n$$

$$A = P(1 + \frac{10}{100})^2$$

$$A = P \frac{11 \times 11}{100} \text{ --- (i)}$$

$$\text{Given that } A - P = 1522.5 \text{ --- (ii)}$$

From the equation (i) and (ii)

$$\Rightarrow P \frac{121}{100} - P = 1522.5$$

$$\Rightarrow \frac{121P - 100P}{100} = 1522.5$$

$$\Rightarrow 21P = 152250$$

$$\Rightarrow P = \frac{152250}{21} = \text{Rs. } 7250$$

Question 142

The radius and height of a right circular cone are in the ratio 1: (2.4). If its curved surface area is 2502.5 cm^2 , then what is its volume (Take $\pi = \frac{22}{7}$)

- A 8085 cm^3
- B 8820 cm^3
- C 11550 cm^3
- D 13475 cm^3

Answer: D

Explanation:

As per the above,

Let the radius is r and height is h ,

So, $r : h = 1 : 2.4$

So, $r=k$ and $h=2.4k$, $l = \sqrt{k^2 + (2.4k)^2} = 2.6k$

The curved surface area of the cylinder = 2502.5 cm^2

So, the curved surface area of the cone $\pi r l = 2502.5 \text{ cm}^2$

$\pi \times k \times 2.6k = 2502.5 \text{ cm}^2$

2502.5×7

$\Rightarrow k^2 = 2.6 \times 22 = 306.25 \text{ cm}^2$

$\Rightarrow k = \sqrt{306.25 \text{ cm}^2} = 17.5 \text{ cm}$

Volume of the cone = $\frac{\pi r^2 h}{3} = \frac{3.14 \times k \times 2.4k}{3}$

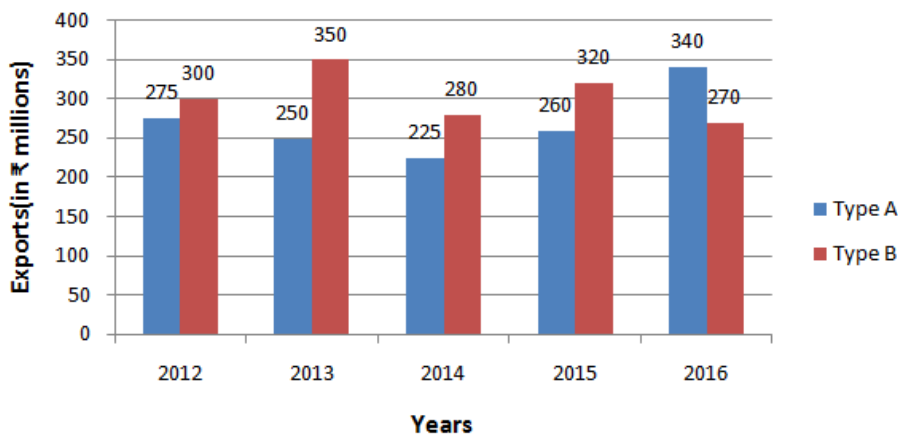
$\frac{22 \times 17.5 \times 17.5 \times 2.4 \times 17.5}{3 \times 7} = 13475 \text{ cm}^3$

$\Rightarrow = 13475 \text{ cm}^3$

Question 143

Study the graph and answer the question.

Exports (in ₹ millions) of cars of Type A and Type B over the years



In how many years were the exports of type B cars more than the average exports of type A cars during 2012 to 2016?

- A 2
- B 3
- C 1

D 4

Answer: D

Explanation:

The average exports of the type-A car from 2012 to 2016 = $\frac{275 + 250 + 225 + 260 + 340}{5}$ = 270 millions

Now, comparing this from the above graphs = 4

SSC CGL Previous Papers (DOWNLOAD PDF)

Question 144

A boat takes 4 hours to travel from a place X to Y downstream and back from Y to X upstream. If the distance from X to Y is 10.5 km, and the speed of the current is 9 km/h, then the speed of the boat in still water, in km/h is:

A $10\frac{1}{2}$

B 15

C 12

D $12\frac{1}{2}$

Answer: C

Explanation:

As per the given question,

time = 4 hour

distance = 10.5 km

Speed of the stream = 9 km/hour

Let the speed of the boat in the calm water = v

So, $t = t_1 + t_2$

$$\Rightarrow 4 = \frac{10.5}{v + 9} + \frac{10.5}{v - 9}$$

$$\Rightarrow 4 = 10.5 \frac{v - 9 + v + 9}{(v - 9)(v + 9)}$$

$$\Rightarrow 4 = 10.5 \frac{2v}{(v - 9)(v + 9)}$$

$$\Rightarrow 4v^2 - 81 \times 4 = 21v$$

$$\Rightarrow 4v^2 - 21v - 324 = 0$$

$$\Rightarrow 4v^2 - 48v + 27v - 324 = 0$$

$$\Rightarrow 4v(v - 12) - 27(v - 12) = 0$$

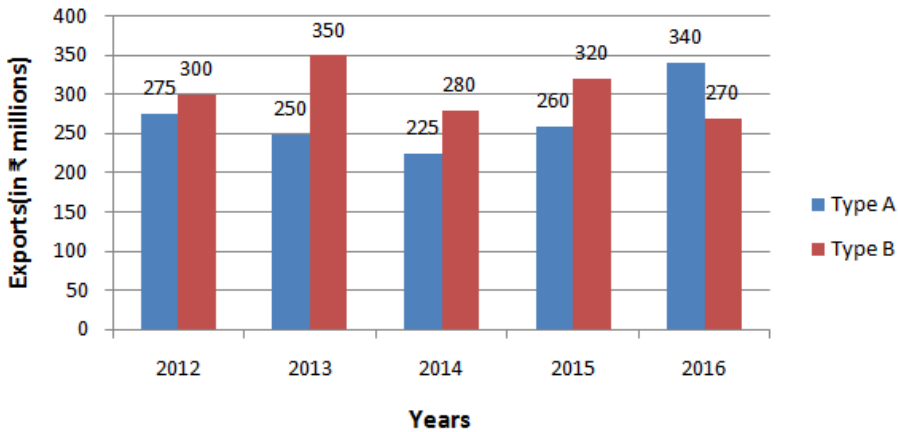
$$\Rightarrow (v - 12)(4v - 27) = 0$$

Hence, $v = 12$ km/hour.

Question 145

Study the graph and answer the question.

Exports (in ₹ millions) of cars of Type A and Type B over the years



The exports of type A cars in 2016 are what percentage less than the total exports of type B cars in 2014 and 2015?

- A $26\frac{2}{3}$
- B 32
- C 45
- D $43\frac{1}{3}$

Answer: D

Explanation:

Total exports of the type-A car in 2016=340 million

Total exports of a type-B car in 2014 = 280million

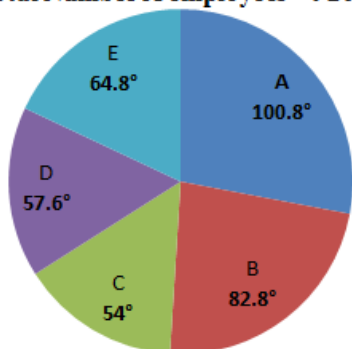
Total exports of a type-B car in 2015 = 320million

$$\text{Hence, the required percentage} = \frac{(320 + 280 - 340) \times 100}{320 + 280} = \frac{260 \times 100}{600} = 43\frac{1}{3}$$

Question 146

Study the pie-chart and answer the question.

Distribution (degree wise) of the total number of employees of a company in its five offices A, B, C, D & E
 Total Number of employees = 9200



The total number of employees of the company in offices D and E is what percentage more than the number of employees in office A? (Your answer should be correct to one decimal place.)

- A 21.8
- B 20.6
- C 21.4
- D 22.2

Answer: C

Explanation:

As per the given data in the question,

Total number of employee=9200

$$\text{Total number of employee in the office D} = \frac{9200 \times 57.6^\circ}{360} = 1472$$

$$\text{Total number of employee in the office E} = \frac{9200 \times 64.8^\circ}{360} = 1656$$

$$\text{Total number of employee in the office A} = \frac{9200 \times 100.8^\circ}{360} = 2576$$

$$\text{Hence, the required percentage} = \frac{(1656 + 1472 - 2576) \times 100}{2576} = 21.4\%$$

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Question 147

A can complete one-third of a work in 10 days and B can do $\frac{3}{5}$ th of the same work in 24 days. They worked together for 10 days. The remaining work was completed by C alone in 15 days. In how many days can C alone do $\frac{2}{3}$ rd of the same work?

- A ₹12,800
- B ₹12,500
- C ₹13,200
- D ₹12,000

Answer: B

Explanation:

As per the given condition in the

Question 148

Two equal sums (in ₹) are lent at 8% and 4% simple interest p.a, respectively at the same time. The first sum is received 2 years earlier than the other and the amount received in each case is ₹14,500. Each sum is:

- A ₹12,800
- B ₹12,500
- C ₹13,200
- D ₹12,000

Answer: B

Explanation:

As per the given data in the question,

$$R_1 = 8\% \text{ and } R_2 = 4\%$$

Let the time is t and the amount = P

$$PRT$$

$$SI = 100$$

As per the condition given in the question,

$$\Rightarrow 14500 - P = \frac{P \times 8 \times t}{100} \text{ ----- (i)}$$

$$\text{and } 14500 - P = \frac{P \times 4 \times (t + 2)}{100} \text{ ----- (ii)}$$

From the equation (i) and (ii)

$t = 2$ years,

Now substituting the values of t in the equation (i)

$$\Rightarrow 14500 - P = \frac{P \times 8 \times 2}{100}$$

$$P = \frac{14500 \times 25}{29} = \text{Rs.}12500$$

Question 149

A sum of ₹12,000 is divided between A, B, C and D such that the ratio of shares of A and B is 8 : 9, that of B and C is 2:3 and that of C and D is 9 : 13. What is the difference between the shares of B and D?

A ₹1,320

B ₹2,400

C ₹2,520

D ₹2,760

Answer: C

Explanation:

As per the given question,

The total amount of the sum =Rs. 12000

$$\frac{8}{9} = \frac{16}{18}$$

The share ratio of A and B = 9 = 18

$$\frac{18}{2} = \frac{27}{3}$$

The Share ratio of B and C = 2 : 3 = 27

$$\frac{27}{9} = \frac{39}{13}$$

The Share ratio of C and D = 9 : 13 = 39

Hence the required ratio $A : B : C : D = 16 : 18 : 27 : 39$

Hence the shares of A, B, C, and D $16x + 18x + 27x + 39 = 12000$

$$\Rightarrow 100x = 12000$$

$$x = \frac{12000}{100}$$

$$x = 120$$

Hence, the share of B = $120 \times 18 = \text{Rs.}2160$

The share of D = $39 \times 120 = \text{Rs.}4680$

Hence, the required difference = $4680 - 2160 = Rs.2520$

General Science Notes (Download PDF)

Question 150

The height of a cylinder is $\frac{2}{3}$ rd of its diameter. Its volume is equal to the volume of a sphere whose radius is 4 cm. What is the curved surface area (in cm^2) of the cylinder?

A $\frac{112}{3} \pi$

B 32π

C $\frac{128}{3} \pi$

D 40π

Answer: C

Explanation:

As per the question,

$$h = \frac{2D}{3}$$

The height of the cylinder $h = \frac{2D}{3}$

$$D = 2R$$

Here D is the diameter of the cylinder, so $R = \frac{D}{2}$

As per the given condition in the question, Volume of the cylinder = Volume of the sphere,

$$\pi R^2 h = \frac{4\pi r^3}{3} \quad \text{--- (i)}$$

Now, substituting the value of h in the equation (i)

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

$$\Rightarrow \frac{4R^3}{3} = \frac{4 \times r^3}{3}$$

$$\Rightarrow R^3 = r^3$$

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

$$\text{So, curved surface area of the cylinder} = 2\pi R \times h = \frac{2\pi \times 4 \times 4}{3} = \frac{128\pi}{3}$$

SSC Stenographer Previous Papers (DOWNLOAD PDF)

English Comprehension

Instructions

For the following questions answer them individually

Question 151

Select the most appropriate synonym of the given word.

EXASPERATE

A Infuriate

B Appreciate

C Imitate

D Desperate

Answer: A

Explanation:

Synonym of exasperate - Infuriate, incense, anger, annoy, irritate

SSC Stenographer Previous Papers (Latest Pattern)

Question 152

Select the most appropriate option to fill in the blank

This is the reason _____ I don't attend parties.

A why

B since

C because

D so

Answer: A

Question 153

Select the most appropriate meaning of the given idiom

To read between the lines

A to understand the implied meaning

B to completely misunderstand the meaning

C to read with great difficulty

D to critically analyse a piece of writing

Answer: A

Question 154

Select the most appropriate antonym of the given word.

REPRIMAND

A Reproof

B Reward

C Redeem

D Rebuke

Answer: B

SSC CGL Tier-2 Previous Papers PDF

Question 155

Select the most appropriate option to substitute the underlined segment. If no substitution is required select 'No substitution'

Employees refrain to indulge in undesirable activities if they are monitored

- A refrain for indulgence
- B refrain from indulging
- C refrain against indulging
- D No substitution

Answer: B

Question 156

Select the most appropriate meaning of the given idiom.
To blaze a trail

- A to initiate something new
- B to act impulsively
- C to set fire to something
- D to complete a project

Answer: A

Question 157

Select the most appropriate option to substitute the underlined segment. If no substitution is required select 'No substitution'.
Some people in the audience were asleep while the chief guest was speaking.

- A whenever the chief guest spoke
- B when the chief guest has spoken
- C while a chief guest is speaking
- D No substitution

Answer: D

SSC Exam Free Videos (Youtube)

Question 158

Select the most appropriate option to substitute the underlined segment. If no substitution is required select 'No substitution'.
The colour of her cheeks is like a rose.

- A are like a rose
- B are just as a rose
- C is like that of a rose
- D No substitution

Answer: C

Question 159

Select the correctly spelt word.

- A Credible
- B Credibel
- C Creddible
- D Credibal

Answer: A

Question 160

Select the option which is the most appropriate one word substitution for the given group of words.
One who is sixty years old

- A Sexagenarian
- B Octogenarian
- C Septuagenarian
- D Nonagenarian

Answer: A

SSC Study Material

Question 161

Identify the segment that contains a grammatical error. If there is no error, select 'No error'
The day before yesterday he left for Europe by the air.

- A The day before yesterday
- B No error
- C by the air
- D he left for the Europe

Answer: C

Question 162

Identify the segment that contains a grammatical error. If there is no error, select 'No error'
I wish I have worked harder than I did.

- A I wish
- B I have worked
- C harder than I did
- D No error

Answer: B

Question 163

Select the most appropriate synonym of the given word.
FEIGN

- A Hinder
- B Instruct
- C Foretell
- D Pretend

Answer: D

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Question 164

Select the wrongly spelt word

- A Refurbish
- B Residue
- C Relagate
- D Retrospect

Answer: C

Question 165

Identify the segment that contains a grammatical error. If there is no error, select 'No error'
This document has signed by two persons.

- A This document
- B No error
- C by two persons
- D has signed

Answer: D

Question 166

Select the most appropriate antonym of the given word.

COMPLY

- A Consent
- B Defer
- C Adhere
- D Oppose

Answer: D

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Question 167

Select the most appropriate synonym of the given word.
EFFICACIOUS

- A Voracious
- B Effective
- C Audacious
- D Impotent

Answer: A

Question 168

Select the wrongly spelt word

- A Embarrass
- B Embrace
- C Embody
- D Embelish

Answer: D

Question 169

Select the option which is the most appropriate one word substitution for the given group of words.
That which cannot be seen through

- A opaque
- B transparent
- C impervious
- D translucent

Answer: A

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Question 170

Select the most appropriate antonym of the given word.
BESEECH

- A Implore
- B Exhort
- C Command
- D Invoke

Answer: C

Question 171

Select the correctly spelt word.

- A Benigne
- B Bennine
- C Benine
- D Benign

Answer: D

Question 172

Select the wrongly spelt word

- A Tranquillity
- B Conscientious
- C Hinderance
- D Quarrelled

Answer: C

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Question 173

Select the most appropriate meaning of the given idiom.

A dark horse

- A an expected outcome
- B an unknown genius
- C a well kept secret
- D a horse of a fine breed

Answer: B

Question 174

Select the most appropriate meaning of the given idiom.

To make castles in the ai

- A to be very ambitious
- B to accomplish difficult tasks
- C to show signs of cowardice
- D to create impossible dreams or hopes

Answer: D

Question 175

Select the most appropriate option to fill in the blank.
He had hardly gone a few kilometres _____ his car broke down.

- A when
- B that
- C where
- D than

Answer: A

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Question 176

Select the most appropriate option to fill in the blank.
This fabric is _____ though cheaper than other fabrics.

- A as good as
- B as good
- C more good
- D so good as

Answer: A

Question 177

Select the most appropriate synonym of the given word.
BEGUILE

- A Repulse
- B Hasten
- C Deceive
- D Disenchant

Answer: C

Question 178

Select the most appropriate option to substitute the underlined segment. If no substitution is required select 'No substitution'
The assignment was so difficult for Mohit to do on his own.

- A was too difficult
- B was so much difficult
- C No substitution
- D were so difficult

Answer: A

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Question 179

Select the most appropriate option to fill in the blank.

She had won the match when we _____ the venue

- A reach
- B reached
- C had been reaching
- D are reaching

Answer: B

Question 180

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

A place where weapons and ammunitions are stored

- A Godown
- B Hangar
- C Museum
- D Arsenal

Answer: D

Instructions

Read the given passage and answer the questions that follow.

Comprehension:

It was the buzz of boardrooms, power lunches and anxious phone calls from the freeway. It was debated by stockbrokers, real estate agents, Hollywood producers and media big feet. Mid-level executives who wouldn't leave home without a phone in their pocket - or at their ear - were putting off calls or finding other ways to make them. Sales of cellular phones which had been growing at a sizzling 20% to 70% a year for the past decade were temporarily put on hold.

Do cellular phones really cause brain tumours? The safety of the ultimate yuppie accessory was called into question by the news in the U.S. that two prominent executives had been stricken by brain cancer (though the connection to phone use is unclear) and by a well publicised lawsuit in which a Florida man charged that his wife's fatal brain tumour was caused by her cellular phone.

It was not the kind of evidence that would be accepted by the new England Journal of Medicine, but it struck a nerve. American viewers tuned in to hear David Reynard, the Florida widower tell the story of his wife's death to Larry King, Bryant Gumbel, Faith Daniels and dozens of radio talk-show hosts.

Even wall street took notice, knocking a couple of points off McCaw Cellular, Contel Cellular and Motorola the day after Reynard's appearance on the Larry King live show. The Cellular Telecommunications Industry Association was finally forced to respond, announcing that it would fund new studies and ask the government to review the findings.

The phone flap is the latest in a series of scares linking everyday electrical objects (hair dryers, electric razors, electric blankets, home computers) to one dreaded disease or another. Despite the panic, the case against cellular phones is nowhere near as strong as the ones mounted against electric power lines, electric blankets or even hand held police radars.

Question 181

What was the buzz of boardrooms and the issue for debate among stockbrokers, real estate agents, producers and others?

- A Excitement about the popular talk shows on radio

- B The concern whether cellular phones caused brain tumours
- C . Growing sales of cellular phones
- D The safety of all electrical gadgets

Answer: B

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Question 182

What was the result of the controversy over cellular phones?

- A David Reynard won the lawsuit against cellular companies.
- B The cellular phones became more poular.
- C The share value of cell phone companies fell in the stock market
- D The New England Journal of Medicine accepted that cell phones caused brain tumour

Answer: C

Question 183

Which of the following statements is Not true?

- A David Reynard claimed that his wife's tumour was due to use of cellular phone.
- B The news on adverse effects of cell phones affected the sales
- C Brain tumour is more probable in cell phone users than in those living near power lines
- D McCaw, Motorola and Contel are cellphone companies.

Answer: C

Question 184

According to the passage which of these is Not linked to any dreaded disease?

- A Hair dryer
- B Electric razor
- C Hair dyes
- D Electric blanket

Answer: C

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Question 185

Larry King is probably

- A a wall street broker

- B a famous TV show host
- C an owner of a cellular phone company
- D a famous criminal lawyer

Answer: B

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 we accept the aim of education as the harmonious development of human personality, we observe that examinations fail to (1)_____ this development accurately. They neither take a (2)_____ of one's physical and spiritual development (3)_____ even of one's intelligence. All they can claim (4)_____ is to test one's (5)_____ or one's capacity for cramming.

Question 186

Select the most appropriate option to fill in blank No.1

- A assess
- B accept
- C except
- D excess

Answer: A

Question 187

Select the most appropriate option to fill in blank No.2

- A quota
- B magnitude
- C Scope
- D measure

Answer: D

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Question 188

Select the most appropriate option to fill in blank No.3

- A nor
- B not
- C or
- D and

Answer: A

Question 189

Select the most appropriate option to fill in blank No.4

- A to be doing
- B to be done
- C to do
- D for doing

Answer: C

Question 190

Select the most appropriate option to fill in blank No.5

- A . memory
- B memorial
- C memories
- D . memorable

Answer: A

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Instructions

For the following questions answer them individually

Question 191

Select the most appropriate meaning of the given idiom
Of the first water

- A of ancient origin
- B of favorable opinion
- C of no significance
- D of the best quality

Answer: D

Question 192

Select the most appropriate option to fill in the blank.

Plenty of information about the flora and fauna of India _____ available in this book.

- A are
- B has
- C is
- D were

Answer: C

Question 193

Select the most appropriate synonym of the given word

DEFERENCE

- A Contrast
- B Delay
- C Ignorance
- D Obeisance

Answer: D

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Question 194

Identify the segment that contains a grammatical error. If there is no error, select 'No error'
I ordered his dismissal when he flouted the company rules.

- A I ordered his dismissal
- B No error
- C when he flouted
- D the company rules

Answer: B

Question 195

Select the option which is the most appropriate one word substitution for the given group of words.
Giving up one's authority or throne

- A Abdication
- B Abduction
- C Abjection
- D Abjuration

Answer: A

Question 196

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

- A Obedient
- B Sincere
- C Punctilious
- D Punctual

Answer: C

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Question 197

Identify the segment that contains a grammatical error. If there is no error, select 'No error'
Fate smiled above him in all his business ventures.

- A No error
- B in all his
- C business ventures
- D Fate smiled above him

Answer: D

Question 198

Select the most appropriate antonym of the given word.
SAGACIOUS

- A Prudent
- B Ingenious
- C Ignorant
- D Astute

Answer: C

Question 199

Select the most appropriate antonym of the given word.
ADORN

- A Grace
- B Disfigure
- C Enrich
- D Subdue

Answer: B

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Question 200

Select the most appropriate option to substitute the underlined segment. If no substitution is required select 'No substitution'
The student, with his parents were asked for waiting outside the Principal's office.

- A was asked to wait
- B were asked to wait
- C No substitution
- D were asked to be waiting

Answer: A

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