



SSC CHSL 6 December 2015 Morning Shift

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Reasoning

Instructions

For the following questions answer them individually

Question 1

If x stands for \div , \div stands for +, + stands for -, and - stands for x, then what is the value of $(30+20)-5(7\div 3) \times 25 = ?$

- A 100
- B 20
- C 10
- D 25

Answer: B

Explanation:

Expression : $(30+20)-5(7\div 3) \times 25 = ?$

$$\equiv (30 - 20) \times 5(7 + 3) \div 25$$

$$= 10 \times \frac{5(10)}{25}$$

$$= 10 \times 2 = 20$$

=> Ans - (B)

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Instructions

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

Question 2

POLYTHEISM

- A THESIS
- B HOTELS
- C PISTOL
- D SMIT

Answer: A

Explanation:

The word 'POLYTHEISM' contains only 1 'S', thus the word 'Thesis' cannot be formed.

=> Ans - (A)

Question 3

EMANCIPATE

- A MENACE
- B MANIAC
- C PAINT
- D PATENT

Answer: D

Explanation:

The word 'EMANCIPATE' contains only 1 'T', thus the word '*Patent*' cannot be formed.

=> Ans - (D)

Instructions

For the following questions answer them individually

Question 4

If + means \div , \div means -, - means \times , \times means +, then $12 - 8 \times 6 - 4 \div 6 + 3 = ?$

- A 92
- B -33
- C -122
- D 118

Answer: D

Explanation:

Expression : $12 - 8 \times 6 - 4 \div 6 + 3 = ?$

$$\equiv 12 \times 8 + 6 \times 4 - 6 \div 3$$

$$= (12 \times 8) + (6 \times 4) - (6 \div 3)$$

$$= 96 + 24 - 2 = 118$$

=> Ans - (D)

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Instructions

Select the missing number from the given responses.

Question 5

43	48	41
42	44	?
47	?	?

- A 49, 45, 46
- B 40, 48, 46
- C 46, 40, 45
- D 45, 48, 46

Answer: A

Explanation:

The pattern followed is that it is a group of numbers between 40 and 50

6 numbers are present in random order = 41, 42, 43, 44, __, __, 47, 48, __

Thus, missing numbers are = 45, 46, 49

=> Ans - (A)

Question 6

5	4	9
6	3	?
7	2	4
65	20	45

A 4

B 2

C 1

D 3

Answer: C

Explanation:

In each column, the number at the end is the product of first number to the sum of second and third number.

$$\text{Eg :- } (6 + 7) \times 5 = 13 \times 5 = 65$$

$$\text{and } (3 + 2) \times 4 = 5 \times 4 = 20$$

$$\text{Similarly, } (x + 4) \times 9 = 45$$

$$\Rightarrow (x + 4) = \frac{45}{9} = 5$$

$$\Rightarrow x = 5 - 4 = 1$$

=> Ans - (C)

Question 7

?	6
58	19

A 417

B 147

C 175

D 171

Answer: C

Explanation:

The pattern followed is that starting from top right and moving in clockwise direction, each number is multiplied by 3 and then 1 is added.

$$(6 \times 3) + 1 = 19$$

$$(19 \times 3) + 1 = 58$$

$$(58 \times 3) + 1 = 175$$

=> Ans - (C)

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Instructions

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

Question 8

A 163

B 131

C 137

D 166

Answer: D

Explanation:

Apart from 166, all numbers are prime and odd, hence 166 is the odd one.

=> Ans - (D)

Question 9

A MOQ

B BDF

C XYZ

D RTV

Answer: C

Explanation:

(A) : M (+2 letters) = O (+2 letters) = Q

(B) : B (+2 letters) = D (+2 letters) = F

(C) : X (+1 letter) = Y (+1 letter) = Z

(D) : R (+2 letters) = T (+2 letters) = V

=> Ans - (C)

Question 10

A Oil : Lamp

B Oxygen : Life

C Water : Tap

D Power : Machine

Answer: C

Explanation:

Second requires the first to function. Oil is needed to burn a lamp, oxygen is used to live and a machine needs power, hence *Water : Tap* is the odd one out.

=> Ans - (C)

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Question 11

- A Glucose
- B Chlorophyll
- C Nitrogen
- D Photosynthesis

Answer: D

Explanation:

Photosynthesis is a chemical process by which plants make their food in the presence of sun light and certain constituents, hence it is the odd one out.

=> Ans - (D)

Question 12

- A 126
- B 215
- C 28
- D 65

Answer: B

Explanation:

The pattern followed is :

$$(5)^3 + 1 = 126$$

$$(6)^3 + 1 = 217 \neq 215$$

$$(3)^3 + 1 = 28$$

$$(4)^3 + 1 = 65$$

=> Ans - (B)

Question 13

- A 51530
- B 2610
- C 41220
- D 3915

Answer: A

Explanation:

Apart from 51530, all numbers are divisible by 3, hence it is the odd one out.

$$51530 = 5 + 1 + 5 + 3 + 0 = 14$$

=> Ans - (A)

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Question 14

- A RQCB
- B HIXY
- C LMVW
- D NODE

Answer: A

Explanation:

The pattern followed is :

(A) : R (-1 letter) = Q and C (-1 letter) = B

(B) : H (+1 letter) = I and X (+1 letter) = Y

(C) : L (+1 letter) = M and V (+1 letter) = W

(D) : N (+1 letter) = O and D (+1 letter) = E

=> Ans - (A)

Question 15

- A EIHL
- B CGFJ
- C GKJN
- D IMNR

Answer: D

Explanation:

The pattern followed is :

(A) : E (+4 letters) = I (-1 letter) = H (+4 letters) = L

(B) : C (+4 letters) = G (-1 letter) = F (+4 letters) = J

(C) : G (+4 letters) = K (-1 letter) = J (+4 letters) = N

(D) : I (+4 letters) = M (+1 letter) = N (+4 letters) = R

=> Ans - (D)

Question 16

- A Arunachal Pradesh
- B Maharashtra
- C Gujarat
- D Karnataka

Answer: A

Explanation:

Arunachal Pradesh is located in the north-east India but rest are located in the South-West India, hence the odd state is Arunachal Pradesh.

=> Ans - (A)

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Instructions

For the following questions answer them individually

Question 17

16, 30, ?, 79, 114

A 45

B 49

C 51

D 63

Answer: C

Explanation:

Consecutive multiples of '7' are added.

$$16 + 14 = 30$$

$$30 + 21 = 51$$

$$51 + 28 = 79$$

$$79 + 35 = 114$$

=> Ans - (C)

Question 18

1, 48, 4, 24, 7, ? 10, 2

A 2

B 12

C 8

D 18

Answer: C

Explanation:

2 alternate series are there.

Odd series : Difference of '3' in each terms.

$$= 1 (+3) = 4 (+3) = 7 (+3) = 10$$

Even series : The pattern is :

$$48 \div 2 = 24$$

$$24 \div 3 = 8$$

$$8 \div 4 = 2$$

=> Ans - (C)

Question 19

T, R, P, N, ?

A V

B E

C L

D M

Answer: C

Explanation:

The pattern followed is :

T (-2 letters) = R

R (-2 letters) = P

P (-2 letters) = N

N (-2 letters) = L

=> Ans - (C)

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Question 20

4, __, 19, 39, 79, 159

A 12

B 10

C 8

D 9

Answer: D

Explanation:

The pattern followed is that number of the form (5×2^n) is added where n is whole number.

$$4 + (5 \times 2^0) = 9$$

$$9 + (5 \times 2^1) = 19$$

$$19 + (5 \times 2^2) = 39$$

$$39 + (5 \times 2^3) = 79$$

$$79 + (5 \times 2^4) = 159$$

=> Ans - (D)

Question 21

Z, X, V, T, R, ?, N

A Q

B S

C R

D P

Answer: D

Explanation:

The pattern followed is :

Z (-2 letters) = X

X (-2 letters) = V

V (-2 letters) = T

T (-2 letters) = R

R (-2 letters) = P

P (-2 letters) = N

=> Ans - (D)

Question 22

Jais and his father has an age difference of 35 years now, After 5 years, the sum of their age is 125. What will be the age of jais and his father after 12 years from now ?

A 40 & 75

B 45 & 70

C 51 & 85

D 52 & 87

Answer: D

Explanation:

Let Jais's present age = x years

=> Jais's father's present age = $(x + 35)$ years

Sum of their ages after 5 years = $(x + 5) + (x + 35 + 5) = 125$

=> $2x + 45 = 125$

=> $2x = 125 - 45 = 80$

=> $x = \frac{80}{2} = 40$

∴ Age of jais and his father after 12 years from now = $(x + 12)$ and $(x + 35 + 12)$

= 52 and 87 years

=> Ans - (D)

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Question 23

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

_bcc_aabc_baab_

A abac

B acac

C acbc

D abcc

Answer: D

Explanation:

Expression : _bcc_abc_baab_

In groups of 3, the term 'abc' is written and in reverse at alternate positions.

Eg :- abc cba abc cba abc

≡ abcc

=> Ans - (D)

Instructions

Arrange the following words as per order in the dictionary.

Question 24

1. Extortioner
2. Extemporize
3. Extinction
4. Extermination
5. Extinguisher

A 2, 4, 3, 5, 1

B 2, 4, 5, 3, 1

C 1, 2, 3, 4, 5

D 4, 5, 2, 1, 3

Answer: A

Explanation:

As per the order of dictionary :

= Extemporize -> Extermination -> Extinction -> Extinguisher -> Extortioner

≡ 2, 4, 3, 5, 1

=> Ans - (A)

Question 25

1. Launderette
2. Laughter
3. Laundry
4. Launch

A 2, 4, 1, 3

B 4, 2, 1, 3

C 1, 3, 2, 4

D 4, 1, 2, 3

Answer: A

Explanation:

As per the order of dictionary :

= Laughter -> Launch -> Launderette -> Laundry

≡ 2, 4, 1, 3

=> Ans - (A)

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Question 26

1. Complicate
2. Complicity
3. Complication
4. Compliant

A 4, 2, 3, 1

B 4, 2, 1, 3

C 4, 1, 3, 2

D 2, 1, 3, 4

Answer: C

Explanation:

As per the order of dictionary :

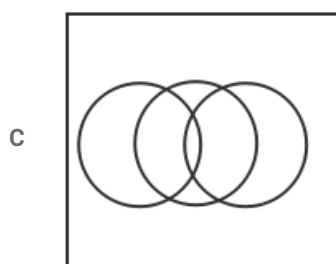
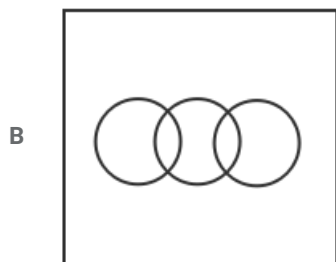
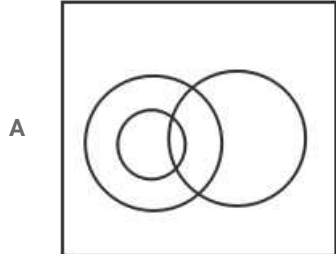
= Compliant -> Complicate -> Complication -> Complicity

≡ 4, 1, 3, 2

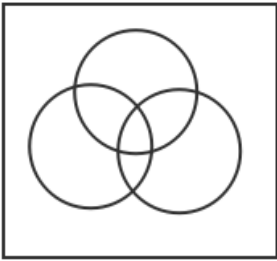
=> Ans - (C)

Question 27

Which of the following diagrams best represents cousins, nieces and females ?



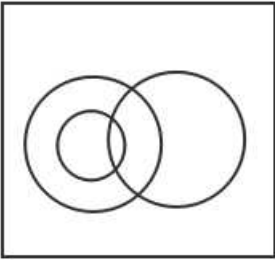
D



Answer: A

Explanation:

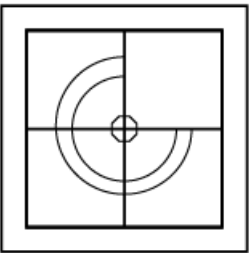
All nieces are females, and some cousins can be both females and cousins, hence the diagram that best represents the relation : cousins, nieces and females is :



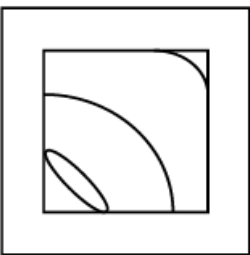
=> Ans - (A)

Question 28

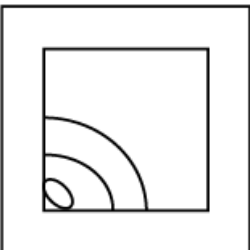
Which answer figure will complete the pattern in the question figure ?

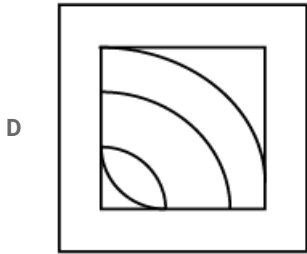
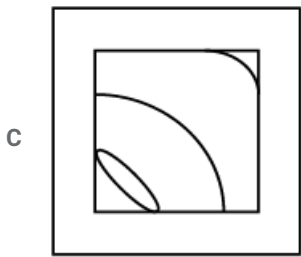


A



B





Answer: E

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Instructions

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

Question 29

RORRIM : MIRROR :: TNESERP : ?

- A PRESENT
- B TNERESP
- C STNERPE
- D CRESENT

Answer: A

Explanation:

Expression = RORRIM : MIRROR :: TNESERP : ?

The letters are written in reverse order, i.e. first letter is written at end, 2nd at 2nd last.

Similarly, TNESERP : **PRESENT**

=> Ans - (A)

Question 30

12593 : 35291

29684 : 46982

72936 : ?

- A 69237
- B 62793
- C 62973
- D 92637

Answer: A

Explanation:

Given = 12593 : 35291

Position of the digits is shuffled, i.e. first digit is written at last, second in the middle, third at second, fourth at second last and last at the first position.

Eg :- 29684 => First and last are swapped, second in the middle (4_9_2) and the remaining in the left over positions, => 46982

Similarly, 72936 : **69237**

=> Ans - (A)

Question 31

6 : 18 :: 4 : ?

A 15

B 2

C 6

D 8

Answer: D

Explanation:

Expression = 6 : 18 :: 4 : ?

The pattern followed is = $n : \frac{n^2}{2}$

Eg :- $\frac{(6)^2}{2} = \frac{36}{2} = 18$

Similarly, $\frac{(4)^2}{2} = \frac{16}{2} = 8$

=> Ans - (D)

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Question 32

Mathematics : Logic :: Science : ?

A Laboratory

B Scientists

C Experiments

D Facts

Answer: C

Explanation:

Logic is the foundation of Mathematics, and science is based on experiments.

=> Ans - (C)

Question 33

EAC : KGI :: HDF ?

A PLN

B NJL

C KIJ

D FBD

Answer: B

Explanation:

Expression : EAC : KGI :: HDF ?

The pattern followed is :

E	A	C
(+6)	(+6)	(+6)
K	G	I

Similarly, for HDF :

H	D	F
(+6)	(+6)	(+6)
N	J	L

=> Ans - (B)

Question 34

Window : Pane :: Book : ?

A Novel

B Page

C Cover

D Glass

Answer: B

Explanation:

A window is made up of pane, similarly a book is made up of pages.

=> Ans - (B)

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Question 35

Fan : Wings :: Wheel ?

A Air

B Spokes

C Cars

D Round

Answer: B

Explanation:

Wings are the parts of Fan. Likewise Spokes are the parts of Wheel.

=> Ans - (B)

Question 36

4845 : 45² :: 5964 : ?

- A 96^2
- B 59^2
- C 54^2
- D 94^2

Answer: C

Explanation:

Expression = $4845 : 45^2 :: 5964 : ?$

First and last digit of 4845 = 45 $\equiv (45)^2$

Similarly, first and last digit of 5964 = 54 $\equiv (54)^2$

=> Ans - (C)

Question 37

BUT : TUB :: NET : ?

- A LET
- B PET
- C TEN
- D TWO

Answer: C

Explanation:

Expression = BUT : TUB :: NET : ?

The letters are written in reverse order, i.e. first letter is written at end, 2nd at 2nd last.

Similarly, NET : **TEN**

=> Ans - (C)

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Instructions

For the following questions answer them individually

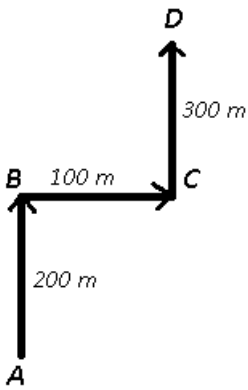
Question 38

After walking 200 meters, I turned right and covered a distance of 100 mtrs, then turned left and covered a distance of 300 mtrs. In the end I am facing towards North. From which direction did I start my journey ?

- A East
- B South
- C North
- D West

Answer: C

Explanation:



Let I start from point A and head north for 200 m, then turned right towards east and reached C after walking 100 m. Finally turned left towards north and stopped at point D after walking 300 m.

Thus, I started my journey in **North** direction.

=> Ans - (C)

Question 39

A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., 'B' can be represented by 00,23 etc., and 'P' can be represented by 56,65 etc. Similarly, you have to identify the set for the word 'DEBRIS'

Matrix-I

	0	1	2	3	4
0	B	U	I	L	D
1	U	I	L	D	B
2	I	L	D	B	U
3	L	D	B	U	I
4	D	B	U	I	L

Matrix-II

	5	6	7	8	9
5	S	P	A	R	E
6	P	A	R	E	S
7	A	R	E	S	P
8	R	E	S	P	A
9	E	S	P	A	R

- A 22, 95, 59, 30, 14, 69
- B 22, 59, 42, 59, 34, 69
- C 40, 95, 14, 59, 30, 69
- D 40, 95, 14, 58, 34, 69

Answer: D

Explanation:

(A) : 22, 95, 59, 30, 14, 69 = DEELBS

(B) : 22, 59, 42, 59, 34, 69 = DEUEIS

(C) : 40, 95, 14, 59, 30, 69 = DEBELS

(D) : 40, 95, 14, 58, 34, 69 = **DEBRIS**

=> Ans - (D)

Question 40

If 'MOTHER' is coded as 'TOMREH', what should be the code for the word 'NEPHEW' ?

- A ENHPWE
- B HPENWE
- C WEHPEN
- D PENWEH

Answer: D

Explanation:

'MOTHER' is coded as 'TOMREH'

The pattern followed is that the word is divided into two parts, and each part is written in reverse order.

Eg :- MOTHER is divided into MOT and HER

Then, MOT -> TOM and HER -> REH

and thus, MOTHER : TOMREH

Similarly, NEPHEW : **PENWEH**

=> Ans - (D)

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Question 41

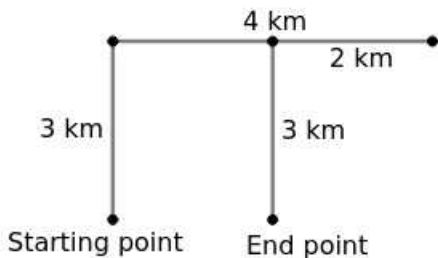
Raheja started from a point. He walked 3 km to the North, then turned East and walked 4km, then turned West walked 2 km and then turned left walked 3km and stopped. In which direction is Raheja from his starting point ?

- A East
- B West
- C North
- D South

Answer: A

Explanation:

The given directions is represented in the figure as shown below

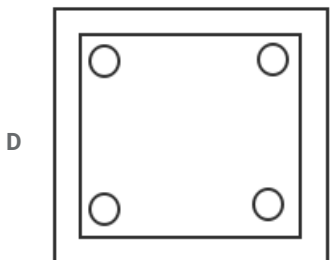
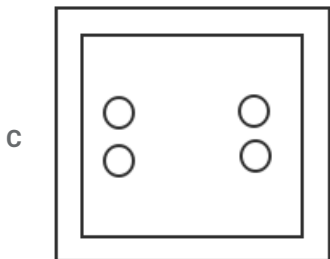
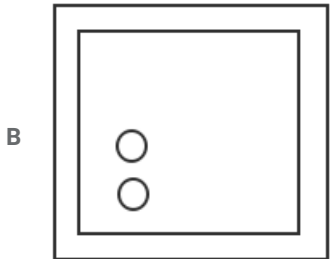
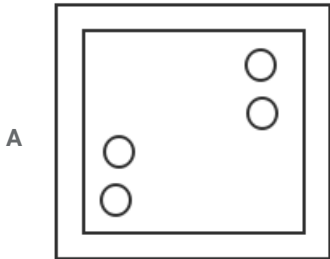
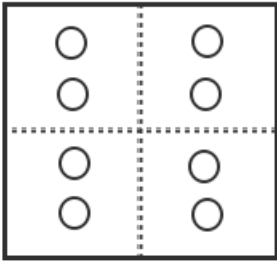


∴ Raheja is in East direction from Starting point.

Hence, the correct answer is Option A

Question 42

If a paper is folded in a particular manner and punch is made, when, unfolded this paper appears as given below in the question figure. Find out the manner in which the paper is folded and the punch is made from the answer figures given.



Answer: B

Explanation:

Since the paper is folded to one of the part of the paper and punched, the pattern of cutting will be one of the four parts.

∴ The figure is folded to the bottom left part and punched as shown in second figure.

Hence, the correct answer is Option B

Question 43

In the question one statement is given, followed by two conclusion/assumption, I and II. You have to consider the statement to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusion/assumptions, if any, follows from the given statements.

Statement: An advertisement in the paper says 'Consume pure organic boney of Company A'.

Conclusion:

- I. Artificial boney can be prepared.
- II. People don't mind paying more for pure organically

- A Assumption I is implicit.
- B Both I and II are implicit
- C Neither I nor II is implicit
- D Assumption II is implicit

Answer: A

Explanation:

Advertisement particularly mentions about organic boney which can be assumed that Artificial boney can be prepared. Hence conclusion I is implicit.

Even though company A prepares organic boney we cannot say that people don't mind paying more. The may or may not pay more depending on the price. Hence conclusion II is not implicit.

Hence, the correct answer is Option A

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Question 44

Adam who is 20 years old is 4 times as old as Mary. What will be Mary's age when Adam is twice as old as her ?

- A 17 years
- B 30 years
- C 35 years
- D 15 years

Answer: D

Explanation:

Adam's age = 20 years

$$\Rightarrow \text{Mary's age} = \frac{20}{4} = 5 \text{ years}$$

Since, difference between their ages = $20 - 5 = 15$ years

\therefore Mary's age will be 15 years when Adam is twice as old as her. (i.e. after 10 years)

\Rightarrow Ans - (D)

Question 45

In a certain code 0, 1, 2.....9 is coded as a,b,c.....j then find $baf \div bf \times d$

- A df
- B be

C d

D cb

Answer: D

Explanation:

Expression : $baf \div bf \times d$

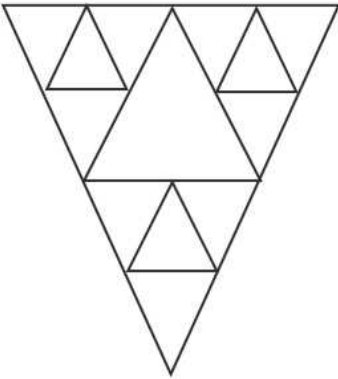
$$\equiv 105 \div 15 \times 3$$

$$= 7 \times 3 = 21 \equiv cb$$

=> Ans - (D)

Question 46

The number of triangles in the following diagram



A 13

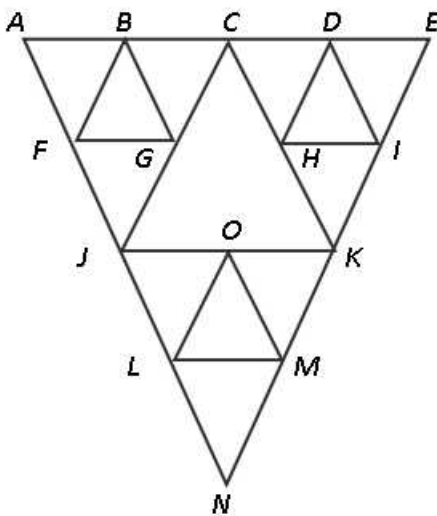
B 14

C 17

D None

Answer: C

Explanation:



Small triangles = ABF, BFG, CBG, FGJ, CDH, DHI, DEI, HIK, JOL, OLM, KOM, LMN = 12

Medium triangles = ACJ, CEK, CJK, JKN = 4

Big triangle = AEN = 1

Total number of triangles = $12 + 4 + 1 = 17$

=> Ans - (C)

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Question 47

In a certain language, PRAYER is coded as MOXVBO, then how SALUTE will be coded in the same language ?

- A PIXRQB
- B PXIQRB
- C PIXQRB
- D PXIRQB

Answer: D

Explanation:

PRAYER is coded as MOXVBO

The pattern followed is :

P	R	A	Y	E	R
(-3)	(-3)	(-3)	(-3)	(-3)	(-3)
M	O	X	V	B	O

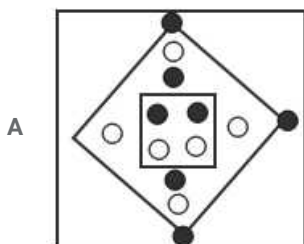
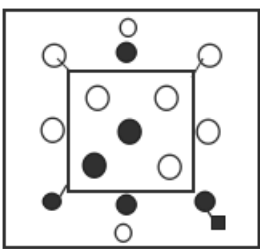
Similarly, for SALUTE :

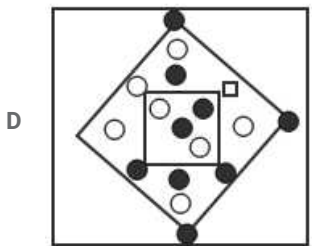
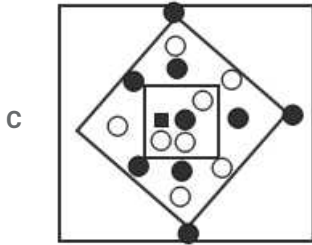
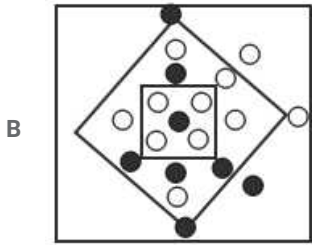
S	A	L	U	T	E
(-3)	(-3)	(-3)	(-3)	(-3)	(-3)
P	X	I	R	Q	B

=> Ans - (D)

Question 48

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





Answer: E

Question 49

In the question, one statement is given. You have to answer considering the statement to be true, even if it seem to be at variance from commonly known facts.

Statement: Students go to school in uniforms.

- A Uniforms are compulsory.
- B Students look smart in uniforms.
- C Uniforms are easily available.
- D Uniforms create a sense of belongingness.

Answer: D

Explanation:

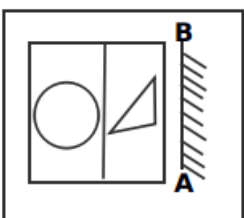
School uniforms remove distractions to the students as everyone is wearing same clothes. When everyone is wearing same clothes students can really focus on learning. Thus Uniforms create a sense of belongingness to the students in the school.

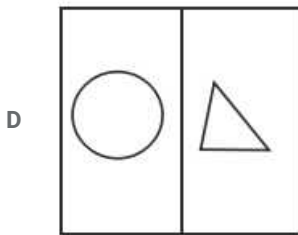
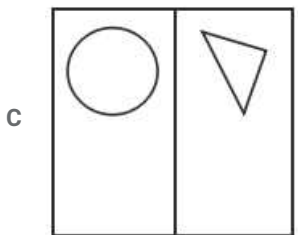
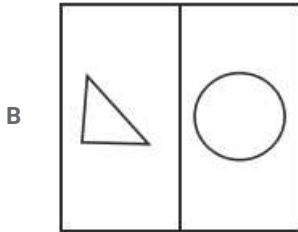
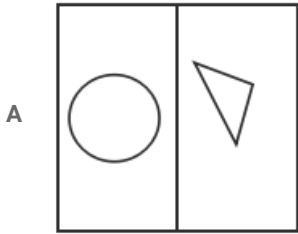
Hence, the correct answer is Option D

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Question 50

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





Answer: B

Explanation:

A vertical mirror is placed, thus the object on the left will appear at right hand side, and vice-versa.

The circle on the left side will appear on the right hand side in the mirror, hence first, third and fourth options are eliminated.

=> Ans - (B)

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English

Instructions

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

Question 51

I was obliged to leave.

- A Circumstances obliged me to leave
- B Circumstances have obliged me to leave
- C Circumstance was obliged me to leave

D Circumstance will oblige me to leave

Answer: E

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Question 52

Close the door

- A Let the door is closed
- B Let the door be closed
- C Let the door closed
- D Let the door is being closed

Answer: E

Instructions

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

Question 53

It was a Friday morning and
P. the lieutenant scanned the horizon
Q. just as the desert haze
R. with his binoculars
S. was clearing
6. And focused on many enemy tanks

- A RPSQ
- B PRSQ
- C QSPR
- D SPQR

Answer: B

Question 54

Earth is the borne
P. to our future
Q. we all share
R. generations as their
S. and would pass on
6. Legacy

- A QPRS
- B QSPR
- C PRQS
- D SPQR

Answer: B

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Question 55

- A man
P. with yellow, red, green
Q. stood holding
R. balloons
S. a pole
6. Flying from it

- A PRQS
B PRSQ
C QSPR
D QRSP

Answer: C

Question 56

- Margaret Noble
P. became a disciple
Q. of Swami Vivekananda
R. a remarkable Irish lady,
S. and dedicated her life
6. To the service of the Indian people.

- A RPQS
B SRQP
C SQPR
D PQRS

Answer: A

Instructions

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

Question 57

I have no _____ office work

- A experience on
B experience of
C experience to
D experience in

Answer: E

Question 58

solar panels are used to ___ Satellites.

- A powers
- B powerful
- C power
- D powerless

Answer: E

Question 59

His words were _____ for the occasion

- A suit
- B appropriately
- C suitably
- D appropriate

Answer: E

Question 60

Ten dollars _____ too much to pay

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

Answer: E

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Instructions

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

Squirrels are I animals in the world. They have the II for rainy days. Autumn can be very entertaining for them. That is the time III the great harvest collection for their winter store. You can IV here and there, collecting out of all sorts. Walnuts, bechnuts, chestnuts, dried berries.....

They are not fussy. Relentlessly, they run from their storage point, usually a tree hollow, to the vast amount of wild nuts to be found in the forest.

These beautiful animals are house proud. They lake great pains to ensure that V and warm enough to tide them over the harsh winter. You VI busily collecting soft pieces of bark, wood and leaves to line their nests.

After all their VII and when the first, cold hard frost arrives, they VIII inside their nests for the duration/rest of the cold spell. There, IX till it is warm enough to bring out their stored food. Ah but then again, they are the most forgetful little animals, and it is not unusual to see squirrels x their boards.

Question 61

- A (I) the more resource
- B (I) the most resourceful
- C (I) the most resource
- D (I) this most resourceful

Answer: E

Question 62

- A (II) knack of saving up
- B (II) knack of saving down
- C (II) knack of saving on
- D (II) knack of saved up

Answer: E

Question 63

- A (III) when they begin
- B (III) when their begin
- C (III) when them begin
- D (III) what they begin

Answer: E

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Question 64

- A (IV) seeing them scampered
- B (IV) see their scampering
- C (IV) seen them scampering
- D (IV) see them scampering

Answer: E

Question 65

- A (V) their nest is securing
- B (V) their nest is secure
- C (V) they nest is secure
- D (V) there nest is secure

Answer: E

Question 66

- A (VI) Is saw them
- B (VI) will saw them
- C (VI) will see them
- D (VI) will seen them

Answer: E

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Question 67

- A (VII) scavenging is done
- B (VII) scavenged is done
- C (VII) seavenging is doing
- D (VII) scavenged was done

Answer: E

Question 68

- A (VIII) are seal themselves
- B (VIII) will seal themselves
- C (VIII) will be seal themselves
- D (VIII) will sealing themselves

Answer: E

Question 69

- A (IX) they will hibernate
- B (IX) them will hibernate
- C (IX) they are hibernsted
- D (IX) they will hibernating

Answer: E

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Question 70

- A (X)search desperate at
- B (X)searching desperates

C (X)searching desperately for

D (X)Searched desperately

Answer: C

Instructions

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

Question 71

A greedy man always bankers after money

A No improvement

B Runs after

C Wanted

D Greeds after

Answer: A

Question 72

It is not difficult to forgive someone who says sorry

A Is apologising

B No improvement

C apologies

D Is asking sorry

Answer: C

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Question 73

ours is a joined family

A join

B joint

C jointed

D No improvement

Answer: B

Question 74

Be quick otherwise you would miss the train

A Otherwise you will

B No improvement

C Otherwise you could have

D Otherwise you will have

Answer: A

Instructions

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

Question 75

Take the bull by the horns is

A to be sensitive

B To win the battle

C To face a difficulty courageously

D To be helpful

Answer: C

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Question 76

Sail in the same boat.

A Be in a different situation

B Suspect something wrong

C Be in the same situation

D To be helpful uncanny

Answer: C

Question 77

A false friend never hesitates to shed crocodile tears

A To pretend to be sympathetic

B To feel disappointed

C To move from one place to another

D To show false happiness

Answer: A

Question 78

to be in a quandary

A To be in a confusing situation

B To be in an unenviable position

- C To be in a commanding
- D To show false happiness

Answer: A

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Instructions

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

Question 79

She made the child to study hard

- A She made
- B No error
- C Study hard
- D The child

Answer: C

Question 80

The door should be keep closed

- A The door
- B No error
- C Keep closed
- D Should be

Answer: C

Question 81

The promise was broken by him

- A Was broken
- B No error
- C By him
- D The promise

Answer: B

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Question 82

Rakesh founds the newspaper very dull

- A The newspaper
- B Very dull
- C Rakesh founds
- D No error

Answer: C

Instructions

Choose the word opposite in meaning to the given word and mark it in the answer sheet

Question 83

Traitor

- A patriot
- B member
- C officer
- D migrant

Answer: E

Question 84

Detest

- A adore
- B withhold
- C Assist
- D injure

Answer: E

Question 85

Ascend

- A Climb
- B deseend
- C soar
- D rise

Answer: E

Question 86

Repel

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- A annoy
- B drag
- C attract
- D coax

Answer: E

Instructions

Out of the four alternatives, choose the one which can be substituted for the given words/sentences.

Question 87

A legal agreement that allows someone to use a building or land for a period of time, usually in return for rent

- A Assurance
- B Deal
- C Bond
- D Lease

Answer: D

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Question 88

A person who helps another to commit a crime

- A Colleague
- B Accomplice
- C Assistant
- D Supporter

Answer: B

Question 89

A person who worships only one God

- A Philogymist
- B Theist
- C Monotheist
- D Polytheist

Answer: C

Question 90

The act of killing one's own brother or sister

- A Suicide
- B Fratricide
- C Homicide
- D Patricide

Answer: B

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Instructions

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

Question 91

- A Jewellery
- B Jewellery
- C Jevelry
- D Jewelery

Answer: B

Question 92

- A Obeydient
- B Obedient
- C Oblidient
- D obediemt

Answer: B

Question 93

- A Diffuse
- B Difuse
- C Difusse
- D diffusse

Answer: A

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Question 94

- A Patritism
- B Pattriotism

C Patriotism

D Patriotism

Answer: D

Instructions

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

Question 95

Result

A Data

B Decision

C Cause

D outcome

Answer: E

Question 96

lousy

A awful

B aura

C awesome

D awry

Answer: E

SSC CHSL Important Questions and Answers (Download PDF)

Question 97

Invincible

A yielding

B unassailable

C fallible

D vulnerable

Answer: E

Question 98

Crusade

A flatten

B angry

C campaign

D critical

Answer: E

Instructions

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

Question 99

The men said, "We are going to fly kites."

- A The men said that they are going to fly kites
- B The men said that they were going to fly kites
- C The men said that we were going to fly kites
- D The men said that we are going to fly kites

Answer: E

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Question 100

Kumar says, "It doesn't rain in January"

- A Kumar said that it doesn't rain in January
- B Kumar said that it didn't rain in January
- C Kumar says that it doesn't rain in January
- D Kumar says that it didn't rain in January

Answer: E

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Quant

Instructions

For the following questions answer them individually

Question 101

150 workers were engaged to finish a piece of work in a certain number of days. Four workers dropped on the second day, four more workers dropped on third day and so on. It takes 8 more days to finish the work now. Find the number of days in which the work was completed ?

- A 28
- B 30
- C 24
- D 25

Answer: D

Explanation:

Let 1 worker does 1 unit work in a day.

Let 150 workers can finish the work in $(n - 8)$ days, if all workers work all the days.

Then, total work = $150(n - 8)$ -----(i)

Also, 150 workers work on day 1, 146 workers work on day 2, ... and so on. Work is completed in n days.

Thus, total work = $150 + 146 + \dots$ (n terms)

This is an arithmetic progression with first term, $a = 150$, $d = -4$.

Thus, total work = $\frac{n}{2}[2a + (n - 1)d]$

$$= \frac{n}{2}[2(150) + (n - 1)(-4)]$$

$$= \frac{n}{2}[300 - 4n + 4]$$

$$= \frac{n}{2}[304 - 4n] = n(152 - 2n)$$
 -----(ii)

Comparing equations (i) and (ii),

$$\Rightarrow 150(n - 8) = n(152 - 2n)$$

$$\Rightarrow 75(n - 8) = n(76 - n)$$

$$\Rightarrow 75n - 600 = 76n - n^2$$

$$\Rightarrow n^2 - n - 600 = 0$$

$$\Rightarrow (n - 25)(n + 24) = 0$$

$$\Rightarrow n = 25, -24$$

$\therefore n$ cannot be negative, $\Rightarrow n = 25$

\Rightarrow Number of days in which the work was completed = 25

\Rightarrow Ans - (D)

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Question 102

A mixture contains milk and water in the ratio 5 : 1. On adding 5 litres of water, the ratio of milk and water becomes 5 : 2. The quantity of milk in the mixture is

- A 25 litres
- B 16 litres
- C 22.75 litres
- D 32.5 litres

Answer: A

Explanation:

Let quantity of water in mixture = x litres, \Rightarrow Quantity of milk = $5x$ litres

According to ques, $\Rightarrow \frac{5x}{x+5} = \frac{5}{2}$

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

$$\Rightarrow 2x = x + 5$$

$$\Rightarrow 2x - x = 5$$

$$\Rightarrow x = 5$$

\therefore Quantity of milk = $5 \times 5 = 25$ litres

=> Ans - (A)

Question 103

The average of all the odd integers between 2 and 22 is

- A 11
- B 14
- C 13
- D 12

Answer: D

Explanation:

Odd integers between 2 and 22 = 3, 5, 7,....., 21

This is an A.P. with first term = $a = 3$ and $d = 2$

Let number of terms = n

$$\Rightarrow \text{Last term} = a + (n - 1)d$$

$$\Rightarrow 3 + (n - 1)2 = 21$$

$$\Rightarrow (n - 1)2 = 21 - 3 = 18$$

$$\Rightarrow (n - 1) = \frac{18}{2} = 9$$

$$\Rightarrow n = 9 + 1 = 10$$

$$\text{Sum of series} = \frac{n}{2}(a + l)$$

$$= \frac{10}{2}(3 + 21)$$

$$= 5 \times 24 = 120$$

$$\therefore \text{Average} = \frac{120}{10} = 12$$

=> Ans - (D)

Question 104

The least number that should be subtracted from the number 32146 to make it a perfect square is:

- A 205
- B 405
- C 105
- D 305

Answer: C

Explanation:

Since, $32146 < 32400 = (18)^2$

Thus, the least number that should be subtracted from the number 32146 to make it a perfect square = $32146 - (179)^2$

$$= 32146 - 32041 = 105$$

=> Ans - (C)

Question 105

The diameter of a 120 cm long roller is 84 cm. It takes 500 complete revolutions of the roller to level a ground. The cost of levelling the ground at ₹1.50 per sq.m. is:

- A ₹2376
- B ₹6000
- C ₹3762
- D ₹5750

Answer: A

Explanation:

Radius of cylindrical roller = 42 cm and height = 120 cm

=> Distance covered in 1 revolution by the roller = Curved surface area of the roller = $2\pi rh$

$$= 2 \times \frac{22}{7} \times 42 \times 120$$

$$= 44 \times 6 \times 120 = 31680 \text{ cm}^2 = 3.168 \text{ m}^2$$

$$\Rightarrow \text{Total distance covered in 500 revolutions} = 500 \times 3.168 = 1584 \text{ m}^2$$

Now, cost of levelling the 1 m^2 ground = Rs. 1.50

$$\therefore \text{Total cost required} = 1584 \times 1.50 = \text{Rs. } 2376$$

=> Ans - (A)

Question 106

Mr. Dutta desired to deposit his retirement benefit of ₹3 lacs partly to a post office and partly to a bank at 10% and 6 % interests respectively. If his monthly interest income was ₹2000, then the difference of his deposits in the post office and in the bank was:

- A Nil
- B ₹1,00,000
- C ₹50,000
- D ₹40,000

Answer: A

Explanation:

Let the amount deposited in bank = Rs. $100x$ and in post office = Rs. $(3,00,000 - 100x)$

Time period = $\frac{1}{12}$ years

$$\text{Simple interest} = \frac{P \times R \times T}{100}$$

According to ques,

$$\Rightarrow \left(\frac{100x \times 6 \times 1}{12 \times 100} \right) + \left(\frac{(3,00,000 - 100x) \times 10 \times 1}{12 \times 100} \right) = 2000$$

$$\Rightarrow \left(\frac{x}{2} \right) + \left(2500 - \frac{5x}{6} \right) = 2000$$

$$\Rightarrow \frac{5x}{6} - \frac{x}{2} = 2500 - 2000$$

$$\Rightarrow \frac{x}{3} = 500$$

$$\Rightarrow x = 500 \times 3 = 1500$$

Thus, amount deposited in bank = $100 \times 1500 = \text{Rs. } 1,50,000$

Amount deposited in post office = $3,00,000 - 1,50,000 = \text{Rs. } 1,50,000$

∴ Difference of his deposits in the post office and in the bank = 0

⇒ Ans - (A)

Question 107

Volume of a right circular cylinder of height 21 cm and base radius 5 cm is:

- A 1255 cm^3
- B 1650 cm^3
- C 1175 cm^3
- D 1050 cm^3

Answer: B

Explanation:

Radius of cylinder = 5 cm and height = 21 cm

Volume of cylinder = $\pi r^2 h$

$$= \frac{22}{7} \times (5)^2 \times 21$$

$$= 22 \times 25 \times 3 = 1650 \text{ cm}^3$$

⇒ Ans - (B)

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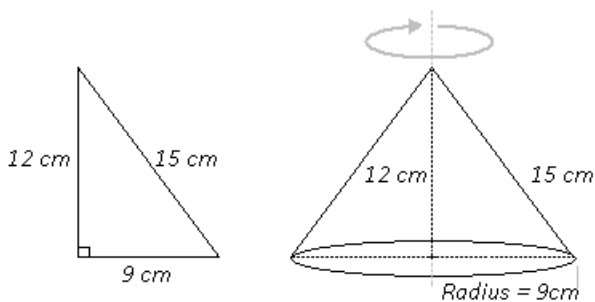
Question 108

A right triangle with sides 9 cm, 12 cm and 15 cm is rotated about the side of 9 cm to form a cone. The volume of the cone so formed is:

- A $324\pi \text{ cm}^3$
- B $330\pi \text{ cm}^3$
- C $334\pi \text{ cm}^3$
- D $327\pi \text{ cm}^3$

Answer: A

Explanation:



Clearly, we have radius $r = 9 \text{ cm}$ and height $h = 12 \text{ cm}$

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

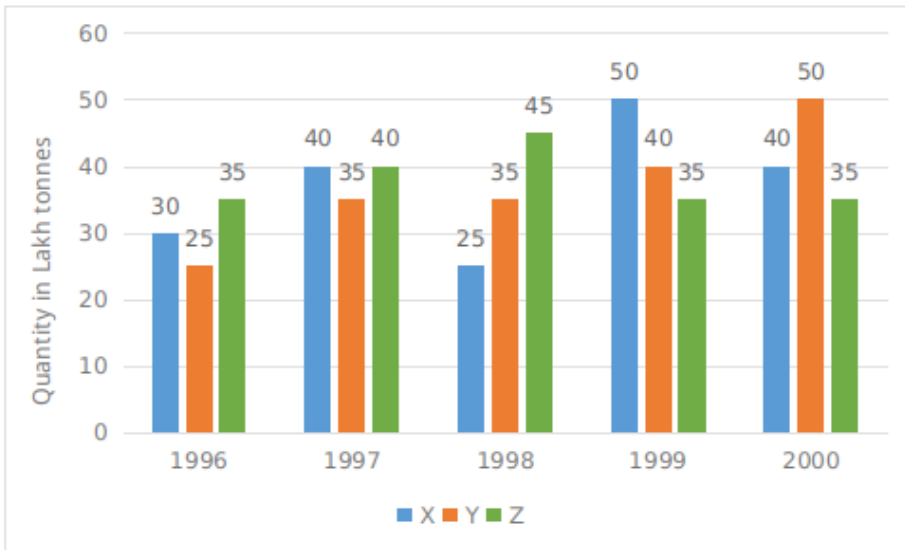
$$= \frac{1}{3} \pi \times (9)^2 \times 12$$

$$= 81 \times 4 \times \pi = 324\pi \text{ cm}^3$$

=> Ans - (A)

Instructions

The bar graph provided below gives the data of the production of paper (in lakh tonnes) by three different companies X, Y, Z over the years. Study the bar chart and answer the following question



Question 109

The difference between the production of company Z in 1998 and company Y in 1996 is:

- A 15,00,000 tonnes
- B 25,00,000 tonnes
- C 20,00,000 tonnes
- D 10,00,000 tonnes

Answer: C

Explanation:

Production of company Z in 1998 = 45,00,000 tonnes

Production of company Y in 1996 = 25,00,000 tonnes

=> Required difference = 45, 00, 000 – 25, 00, 000 = 20, 00, 000 tonnes

=> Ans - (C)

Question 110

The average production for five years is maximum for company ?

- A Z
- B X and Z
- C Y
- D X

Answer: A

Explanation:

Average production for five years (in lakhs tonnes) for company :

$$X = \frac{(30+40+25+50+40)}{5} = \frac{185}{5} = 37$$

$$Y = \frac{(25+35+35+40+50)}{5} = \frac{185}{5} = 37$$

$$Z = \frac{(35+40+45+35+35)}{5} = \frac{190}{5} = 38 \quad \text{[MAX]}$$

=> Ans - (A)

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Question 111

The percentage increase in the production of company Y from 1996 to 1999 is:

- A 60%
- B 55%
- C 50%
- D 40%

Answer: A

Explanation:

Production of company Y in 1996 (in lakhs tonnes) = 25

Production of company Y in 1999 (in lakhs tonnes) = 40

$$\Rightarrow \text{Required \% increase} = \frac{(40-25)}{25} \times 100$$

$$= 15 \times 4 = 60\%$$

=> Ans - (A)

Question 112

The ratio of the average production of company X in the period 1998-2000 to the average production of company Y in the same period is

- A 27 : 29
- B 23 : 25
- C 25 : 26
- D 24 : 27

Answer: B

Explanation:

Average production (in lakhs tonnes) for company X in the period 1998-2000

$$= \frac{(25+50+40)}{3} = \frac{115}{3}$$

Average production (in lakhs tonnes) for company Y in the period 1998-2000

$$= \frac{(35+40+50)}{3} = \frac{125}{3}$$

$$\Rightarrow \text{Required ratio} = \frac{115}{3} : \frac{125}{3} = 23 : 25$$

=> Ans - (B)

Question 113

The percentage of production of company Z to the production of company Y is maximum in:

- A 1999
- B 2000
- C 1996
- D 1998

Answer: C

Explanation:

Ratio of production of company Z to company Y (in lakhs tonnes) in the year :

$$(A) : 1999 = \frac{35}{40} = 0.875$$

$$(B) : 2000 = \frac{35}{50} = 0.7$$

$$(C) : 1996 = \frac{35}{25} = 1.4 \quad \text{[MAX]}$$

$$(D) : 1998 = \frac{45}{35} = 1.28$$

=> Ans - (C)

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Instructions

For the following questions answer them individually

Question 114

If 12 men working 8 hours a day complete the work in 10 days, how long would 16 men working 7 1/2 hours a day take to complete the same work ?

- A 8
- B 6
- C 7
- D 10

Answer: A

Explanation:

Using, $M_1D_1H_1 = M_2D_2H_2$, where M is number of men, D is number of days and H is number of hours

According to ques,

$$\Rightarrow 12 \times 10 \times 8 = 16 \times D_2 \times \frac{15}{2}$$

$$\Rightarrow 120 = 15D_2$$

$$\Rightarrow D_2 = \frac{120}{15} = 8$$

=> Ans - (A)

Question 115

The average age of mother and her six children is 12 years, which is reduced by 5 years if the age of the mother is excluded. The age of the mother (in yrs) is:

- A 48
- B 40

C 42

D 50

Answer: C

Explanation:

Average age of mother and her six children = 12 years

=> Total age of 7 persons = $12 \times 7 = 84$ years

Let mother's age = x years

According to ques,

$$\Rightarrow \frac{(84-x)}{6} = 7$$

$$\Rightarrow 84 - x = 7 \times 6 = 42$$

$$\Rightarrow x = 84 - 42 = 42 \text{ years}$$

=> Ans - (C)

Question 116

If $x = a(\sin \theta + \cos \theta)$ and $y = b(\sin \theta - \cos \theta)$, then the value of $\frac{x^2}{a^2} + \frac{y^2}{b^2}$ is:

A 3

B 4

C 2

D 1

Answer: C

Explanation:

Given : $x = a(\sin \theta + \cos \theta)$ and $y = b(\sin \theta - \cos \theta)$

Squaring both sides, we get :

$$\Rightarrow x^2 = a^2(\sin \theta + \cos \theta)^2$$

$$\Rightarrow x^2 = a^2(\sin^2 \theta + \cos^2 \theta + 2\sin \theta \cos \theta)$$

$$\Rightarrow x^2 = a^2(1 + 2\sin \theta \cos \theta)$$

$$\Rightarrow \frac{x^2}{a^2} = 1 + 2\sin \theta \cos \theta \text{ -----(i)}$$

$$\text{Similarly, } \frac{y^2}{b^2} = 1 - 2\sin \theta \cos \theta \text{ -----(ii)}$$

Adding both equations (i) and (ii),

$$\Rightarrow \frac{x^2}{a^2} + \frac{y^2}{b^2} = (1 + 2\sin \theta \cos \theta) + (1 - 2\sin \theta \cos \theta)$$

$$= 1 + 1 = 2$$

=> Ans - (C)

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Question 117

If $a^2 + b^2 + c^2 = 2(a - b - c) - 3$, then the value of $a+b+c$ is;

A 1

- B -1
- C -2
- D 2

Answer: B

Explanation:

$$\text{Given : } a^2 + b^2 + c^2 = 2(a - b - c) - 3$$

$$\Rightarrow a^2 + b^2 + c^2 = 2a - 2b - 2c - 3$$

$$\Rightarrow (a^2 - 2a) + (b^2 + 2b) + (c^2 + 2c) = -(1 + 1 + 1)$$

$$\Rightarrow (a^2 - 2a + 1) + (b^2 + 2b + 1) + (c^2 + 2c + 1) = 0$$

$$\Rightarrow (a - 1)^2 + (b + 1)^2 + (c + 1)^2 = 0$$

∴ Sum of all positive terms is '0', then each term is equal to zero.

$$\Rightarrow (a - 1) = 0 \text{ and } (b + 1) = 0 \text{ and } (c + 1) = 0$$

$$\Rightarrow a = 1, b = -1, c = -1$$

$$\therefore (a + b + c) = 1 + (-1) + (-1) = -1$$

⇒ Ans - (B)

Question 118

If $x+y=4$, $x^2 + y^2= 14$ and $x > y$, Then the correct value of x and y is:

- A 3, 1
- B $2 - \sqrt{2}, \sqrt{3}$
- C $2 + \sqrt{3}, 2 - \sqrt{3}$
- D $2 + \sqrt{3}, 2\sqrt{3}$

Answer: C

Explanation:

$$\text{Given : } x + y = 4 \text{ and } x^2 + y^2 = 14 \text{ -----(i)}$$

Squaring both sides, we get :

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

$$\Rightarrow x^2 + y^2 + 2xy = 16$$

$$\Rightarrow 14 + 2xy = 16$$

$$\Rightarrow 2xy = 16 - 14 = 2$$

$$\Rightarrow xy = 1$$

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

Substituting it in equation (i), $\Rightarrow x + \frac{1}{x} = 4$

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

$$\Rightarrow x = \frac{4 \pm \sqrt{(-4)^2 - 4(1)(1)}}{2}$$

$$\Rightarrow x = \frac{4 \pm \sqrt{12}}{2}$$

$$\Rightarrow x = \frac{4 \pm 2\sqrt{3}}{2}$$

$$\Rightarrow x = 2 \pm \sqrt{3}$$

$$\therefore x > y \Rightarrow x = 2 + \sqrt{3} \text{ and } y = 2 - \sqrt{3}$$

\Rightarrow Ans - (C)

Question 119

If $\cos \theta + \sin \theta = m$ and $\sec \theta + \operatorname{cosec} \theta = n$ then the value of $n(m^2 - 1)$ is equal to:

A 2n

B 4mn

C mn

D 2m

Answer: D

Explanation:

$$\text{Given : } \cos \theta + \sin \theta = m \text{ -----(i)}$$

Squaring both sides, we get :

$$\Rightarrow (\cos \theta + \sin \theta)^2 = (m)^2$$

$$\Rightarrow \cos^2 \theta + \sin^2 \theta + 2\sin \theta \cdot \cos \theta = m^2$$

$$\Rightarrow 1 + 2\sin \theta \cdot \cos \theta = m^2$$

$$\Rightarrow \sin \theta \cdot \cos \theta = \frac{m^2 - 1}{2} \text{ -----(ii)}$$

Also, it is given that : $\sec \theta + \operatorname{cosec} \theta = n$

$$\Rightarrow \frac{1}{\cos \theta} + \frac{1}{\sin \theta} = n$$

$$\Rightarrow \frac{\sin \theta + \cos \theta}{\sin \theta \cdot \cos \theta} = n$$

$$\text{Using equations (i) and (ii), } \Rightarrow m = \frac{m^2 - 1}{2} \times n$$

$$\Rightarrow n(m^2 - 1) = 2m$$

\Rightarrow Ans - (D)

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Question 120

The value of $\frac{1}{1+\sqrt{2}+\sqrt{3}} + \frac{1}{1-\sqrt{2}+\sqrt{3}}$ is:

A 1

B $4(\sqrt{3} + \sqrt{2})$

C $\sqrt{3}$

D $\sqrt{2}$

Answer: A

Explanation:

$$\text{Expression : } \frac{1}{1+\sqrt{2}+\sqrt{3}} + \frac{1}{1-\sqrt{2}+\sqrt{3}}$$

Rationalizing the denominator, we get :

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

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

$$= \frac{(1+\sqrt{3}-\sqrt{2})+(1+\sqrt{3}+\sqrt{2})}{(1+3+2\sqrt{3})-(2)}$$

$$= \frac{2+2\sqrt{3}}{2+2\sqrt{3}} = 1$$

=> Ans - (A)

Question 121

If the radius of a sphere is increased by 2 cm, then its surface area increases by 352 cm^2 . The radius of the sphere initially was: (use $\pi = \frac{22}{7}$)

- A 3 cm
- B 4 cm
- C 6 cm
- D 5 cm

Answer: C

Explanation:

Let initial radius = r cm

Initial surface area = $4\pi r^2$

New radius = $(r + 2)$ cm

=> New surface area = $4\pi(r + 2)^2 = 4\pi r^2 + 352$

=> $4\pi r^2 + 16\pi r + 16\pi = 4\pi r^2 + 352$

=> $16\pi(r + 1) = 352$

=> $(r + 1) = \frac{352}{16} \times \frac{7}{22}$

=> $(r + 1) = 7$

=> $r = 7 - 1 = 6$ cm

=> Ans - (C)

Question 122

The ratio of two numbers is 3: 4 and their HCF is 15. Then the sum of the two numbers is:

- A 105
- B 120
- C 115
- D 110

Answer: A

Explanation:

Let the numbers be $3x$ and $4x$. Since, the numbers are co-prime, their H.C.F. = x

According to ques, => $x = 15$

∴ Sum of numbers = $3x + 4x = 7x$

$$= 7 \times 15 = 105$$

=> Ans - (A)

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Question 123

A shopkeeper fixes the price of an article at 30% higher than its actual cost. If he sells it at 10% discount on marked price then, the profit is:

- A 18%
- B 17%
- C 19%
- D 20%

Answer: B

Explanation:

Let cost price = Rs. 100

Markup % = 30%

$$\Rightarrow \text{Marked price} = 100 + \left(\frac{30}{100} \times 100\right)$$

$$= 100 + 30 = \text{Rs. } 130$$

Discount % = 10%

$$\Rightarrow \text{Selling price} = 130 - \left(\frac{10}{100} \times 130\right)$$

$$= 130 - 13 = \text{Rs. } 117$$

$$\therefore \text{Profit \%} = \frac{(117-100)}{100} \times 100 = 17\%$$

=> Ans - (B)

Question 124

The three successive angles of a cyclic quadrilateral are in the ratio 1:3:4, find the measure of the fourth angle ?

- A 30°
- B 72°
- C 36°
- D 108°

Answer: B

Explanation:

Let the angles be x , $3x$ and $4x$ respectively.

Sum of opposite angles in a cyclic quadrilateral = 180°

$$\Rightarrow x + 4x = 5x = 180^\circ$$

$$\Rightarrow x = \frac{180}{5} = 36^\circ$$

$$\Rightarrow \text{2nd angle} = 3 \times 36 = 108^\circ$$

$$\therefore \text{4th angle (opposite 2nd angle)} = 180^\circ - 108^\circ = 72^\circ$$

=> Ans - (B)

Question 125

If the Cost Price of 25 chairs is equal to the Selling Price of 30 chairs, then the loss % is:

- A $16\frac{2}{3}\%$
- B 25%
- C 20%
- D 5%

Answer: A

Explanation:

Let C.P. of 1 chair = Rs. x and S.P. of 1 chair = Rs. y

According to ques, $\Rightarrow 25x = 30y$

$$\Rightarrow y = \frac{30}{25}x = \frac{6}{5}x$$

Let $x = 6$ and $y = 5$

$$\therefore \text{Loss \%} = \frac{(x-y)}{x} \times 100$$

$$= \frac{(6-5)}{6} \times 100 = \frac{50}{3}$$

$$= 16\frac{2}{3}\%$$

\Rightarrow Ans - (A)

SSC CHSL Previous Papers (DOWNLOAD PDF)

Question 126

The liquids, X and Y are mixed in the ratio of 3: 2 and the mixture is sold at ₹11 per litre at a profit of 10%. If the liquid X costs ₹2 more per litre than Y, the cost of X per litre is (in ₹):

- A 9.50
- B 10.80
- C 11.75
- D 11

Answer: B

Explanation:

Selling price of mixture = Rs. 11 at 10% profit

$$\Rightarrow \text{Cost price of 1 litre of mixture} = \frac{11}{100+10} \times 100 = \text{Rs. } 10$$

Let cost of liquid X = Rs. x , \Rightarrow Cost of liquid Y = Rs. $(x - 2)$

The liquids are mixed in the ratio of 3: 2. In 5 liters of the mixture, 3 liters will be first liquid and 2 liters will be the second liquid.

$$\text{Thus, cost of 5 litres of mixture} = 3x + 2(x - 2) = 5 \times 10$$

$$\Rightarrow 3x + 2x - 4 = 50$$

$$\Rightarrow 5x = 50 + 4 = 54$$

$$\Rightarrow x = \frac{54}{5} = \text{Rs. } 10.80$$

\Rightarrow Ans - (B)

Question 127

The value of the expression $\sin^2 1^\circ + \sin^2 11^\circ + \sin^2 21^\circ + \sin^2 31^\circ + \sin^2 41^\circ + \sin^2 45^\circ$
 $+ \sin^2 49^\circ + \sin^2 59^\circ + \sin^2 69^\circ + \sin^2 79^\circ + \sin^2 89^\circ$

- A 5
 B $5\frac{1}{2}$
 C 0
 D $4\frac{1}{2}$

Answer: B

Explanation:

Expression : $\sin^2 1^\circ + \sin^2 11^\circ + \sin^2 21^\circ + \sin^2 31^\circ + \sin^2 41^\circ + \sin^2 45^\circ + \sin^2 49^\circ + \sin^2 59^\circ + \sin^2 69^\circ + \sin^2 79^\circ + \sin^2 89^\circ$

$$= (\sin^2 1^\circ + \sin^2 89^\circ) + (\sin^2 11^\circ + \sin^2 79^\circ) + (\sin^2 21^\circ + \sin^2 69^\circ) + (\sin^2 31^\circ + \sin^2 59^\circ) + (\sin^2 41^\circ + \sin^2 49^\circ) + (\sin^2 45^\circ)$$

$$= [\sin^2 1^\circ + \sin^2(90^\circ - 1^\circ)] + [\sin^2 11^\circ + \sin^2(90^\circ - 11^\circ)] + [\sin^2 21^\circ + \sin^2(90^\circ - 21^\circ)] + [\sin^2 31^\circ + \sin^2(90^\circ - 31^\circ)] + [\sin^2 41^\circ + \sin^2(90^\circ - 41^\circ)] + [\sin^2 45^\circ]$$

Using, $\sin(90^\circ - \theta) = \cos \theta$

$$= (\sin^2 1^\circ + \cos^2 1^\circ) + (\sin^2 11^\circ + \cos^2 11^\circ) + (\sin^2 21^\circ + \cos^2 21^\circ) + (\sin^2 31^\circ + \cos^2 31^\circ) + (\sin^2 41^\circ + \cos^2 41^\circ) + (\sin^2 45^\circ)$$

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

$$= (1 + 1 + 1 + 1 + 1) + (\sqrt{2})^2$$

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

=> Ans - (B)

Question 128

The average of 8 numbers is 21. If each of the numbers is multiplied by 8, the average of the new set of numbers is

- A 29
 B 168
 C 21
 D 8

Answer: B

Explanation:

Average of 8 numbers = 21

$$\Rightarrow \text{Sum of numbers} = 21 \times 8 = 168$$

If each of the numbers is multiplied by 8, then the total sum is also multiplied by 8, => New sum = 168×8

$$\therefore \text{Average of new set} = \frac{168 \times 8}{8} = 168$$

=> Ans - (B)

Question 129

If $x(x+y+z) = 20$, $y(x+y+z) = 30$, & $z(x+y+z)=50$, then the value of $2(x+y+z)$ is:

- A -10
- B 15
- C 18
- D 20

Answer: D

Explanation:

Given : $x(x + y + z) = 20$

$$\Rightarrow x^2 + xy + xz = 20 \text{ -----(i)}$$

Similarly, $\Rightarrow y^2 + xy + yz = 30 \text{ -----(ii)}$

and $z^2 + xz + yz = 50 \text{ -----(iii)}$

Adding equations (i), (ii) and (iii), we get :

$$\Rightarrow (x^2 + y^2 + z^2) + 2(xy + yz + xz) = 20 + 30 + 50$$

$$\Rightarrow (x + y + z)^2 = 100$$

$$\Rightarrow (x + y + z) = \sqrt{100} = 10$$

$$\therefore 2(x + y + z) = 2 \times 10 = 20$$

\Rightarrow Ans - (D)

Question 130

If $\cos A + \sin A = \sqrt{2} \cos A$ then $\cos A - \sin A$ is equal to: (Where $0^\circ < A < 90^\circ$)

- A $\sqrt{2} \sin A$
- B $\sqrt{\sin A}$
- C $\sqrt{2} \sin A$
- D $2 \sin A$

Answer: C

Explanation:

Given : $\cos A + \sin A = \sqrt{2} \cos A$

Squaring both sides, we get :

$$\Rightarrow (\cos A + \sin A)^2 = (\sqrt{2} \cos A)^2$$

$$\Rightarrow \cos^2 A + \sin^2 A + 2 \sin A \cdot \cos A = 2 \cos^2 A$$

$$\Rightarrow 1 + 2 \sin A \cdot \cos A = 2(1 - \sin^2 A)$$

$$\Rightarrow 1 + 2 \sin A \cdot \cos A = 2 \cos^2 A = 2 - 2 \sin^2 A$$

$$\Rightarrow 2 \sin A \cdot \cos A = 2 \cos^2 A - 2 \sin^2 A \text{ -----(i)}$$

To find : $\cos A - \sin A = x$

Squaring both sides, we get :

$$\Rightarrow x^2 = \cos^2 A + \sin^2 A - 2 \sin A \cdot \cos A$$

Substituting value from equation (i),

$$\Rightarrow x^2 = 1 - (1 - 2\sin^2 A)$$

$$\Rightarrow x^2 = 2\sin^2 A$$

$$\Rightarrow x = \sqrt{2\sin^2 A}$$

$$\Rightarrow x = \sqrt{2}\sin A$$

\Rightarrow Ans - (C)

Question 131

The straight line $y=3x$ must pass through the point:

A (0,1)

B (0,0)

C (2,0)

D (1,2)

Answer: B

Explanation:

Equation of line = $y = 3x$

(A) : (0,1)

$$\Rightarrow \text{L.H.S.} = 1 \neq \text{R.H.S.} = 3(0) = 0$$

(B) : (0,0)

$$\Rightarrow \text{L.H.S.} = 0 = \text{R.H.S.} = 3(0) = 0$$

\Rightarrow Ans - (B)

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Question 132

Find out the wrong number in the sequence:

A 640

B 2560

C 40

D 200

Answer: D

Explanation:

The sequence followed is that each number is multiplied by '4'

$$40 \times 4 = 160$$

$$160 \times 4 = 640$$

$$640 \times 4 = 2560$$

Thus, 200 is the odd one out.

\Rightarrow Ans - (D)

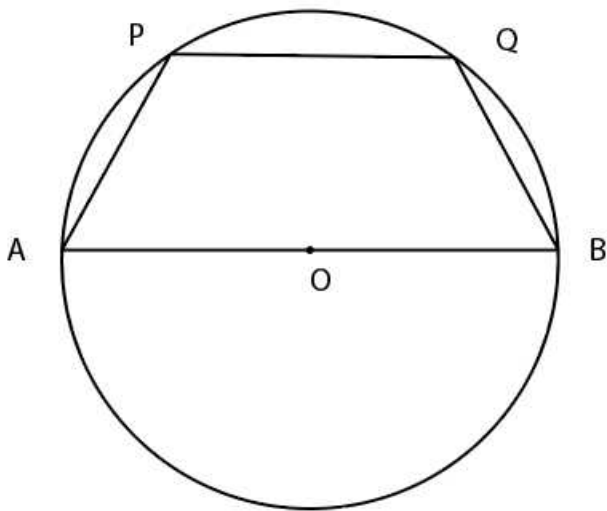
Question 133

AB is a diameter of a circle having centre at O, PQ is a chord which does not intersect AB. Join AP and BQ. If $\angle BAP = \angle ABQ$, then ABQP is a:

- A Cyclic trapezium
- B Cyclic square
- C Cyclic rectangle
- D Cyclic rhombus

Answer: A

Explanation:



Given, AB is a diameter of circle

$$\angle BAP = \angle ABQ \text{ and}$$

P, Q are points on the circle so PQ should be parallel to AB as shown in figure

$$\therefore PQ \parallel AB \text{ and } \angle BAP = \angle ABQ$$

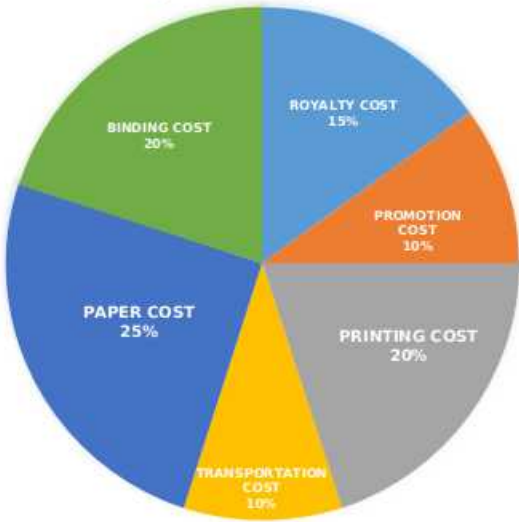
\Rightarrow ABQP is a Cyclic trapezium

Hence, option A is correct answer

Instructions

The following pie-chart shows the percentage distribution of the expenditure incurred in publishing a book. Read the pie-chart and answer the questions.

VARIOUS EXPENDITURE (IN PERCENTAGE) INCURRED IN PUBLISHING A BOOK



Question 134

Royalty on the book is less than the printing cost by:

- A 20%
- B 5%
- C 25%
- D $33\frac{1}{3}\%$

Answer: C

Explanation:

Percentage distribution on royalty cost = 15%

Percentage distribution on printing cost = 20%

$$\Rightarrow \text{Royalty on the book is less than the printing cost by} = \frac{(20-15)}{20} \times 100$$

$$= 5 \times 5 = 25\%$$

\Rightarrow Ans - (C)

SSC CHSL Important Questions and Answers (Download PDF)

Question 135

If for a certain quantity of books, the publisher has to pay ₹30600 as printing cost, then the amount of royalty cost to be paid for these books is:

- A ₹21200
- B ₹19450
- C ₹22950
- D ₹26150

Answer: C

Explanation:

Percentage distribution on royalty cost = 15%

Percentage distribution on printing cost = 20%

According to ques, $\Rightarrow 20\% \equiv 30,600$

$$\Rightarrow 15\% \equiv \frac{30,600}{20} \times 15$$

= Rs. 22,950

\Rightarrow Ans - (C)

Question 136

If 5500 copies are published and the transportation cost on them amounts to ₹8250, then the selling price of the book so that the publisher can earn a profit of 25% is:

A ₹175

B ₹180

C ₹187.50

D ₹191.50

Answer: C

Explanation:

$$\text{Transportation cost of 1 book} = \frac{8250}{5500} = 1.5$$

\Rightarrow Percentage distribution on transportation cost = 10%

$$\text{Thus, total cost price of a book} = \frac{1.5}{10} \times 100 = \text{Rs. } 150$$

Profit % = 25%

$$\Rightarrow \text{Selling price} = 150 + \left(\frac{25}{100} \times 150\right)$$

$$= 150 + 37.50 = \text{Rs. } 187.50$$

\Rightarrow Ans - (C)

Question 137

The central angle of the sector corresponding to the expenditure incurred on Royalty is:

A 54°

B 24°

C 15°

D 48°

Answer: A

Explanation:

Percentage distribution on royalty cost = 15%

$$\Rightarrow \text{Central angle of the sector corresponding to the expenditure incurred on Royalty} = \frac{15}{100} \times 360^\circ$$

$$= 15 \times 3.6 = 54^\circ$$

\Rightarrow Ans - (A)

SSC CHSL Study Material

Instructions

For the following questions answer them individually

Question 138

In what proportions must water be added with milk to gain 20% by selling the mixture at cost price ?

- A 5 : 1
- B 1 : 1
- C 1 : 5
- D 4 : 1

Answer: C

Explanation:

For 100 litres of milk to get 20% profit, we need to sell = $100 + \left(\frac{20}{100} \times 100\right) = 120$ litres

Thus, water added = $120 - 100 = 20$ litres

=> Required ratio = $\frac{20}{100} = 1 : 5$

=> Ans - (C)

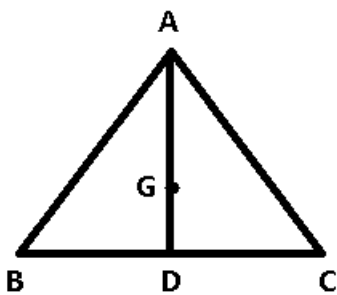
Question 139

The centroid of an equilateral triangle ABC is G and AB=10 cm. The length of AG (in cm)

- A $3\frac{1}{3}$
- B $\frac{10\sqrt{3}}{3}$
- C $\frac{\sqrt{3}}{3}$
- D $\frac{10}{\sqrt{3}}$

Answer: B

Explanation:



G is the centroid of $\triangle ABC$ and $AB = 10$ cm.

Also, a centroid divides the median in the ratio = $AG : GD = 2 : 1$

Now, median $AD = \frac{\sqrt{3}}{2} \times 10 = 5\sqrt{3}$ cm

$\therefore AG = (2+1) \times 5\sqrt{3}$

= $\frac{10\sqrt{3}}{3}$ cm

=> Ans - (B)

Question 140

If $\frac{x - x \tan^2 30^\circ}{1 + \tan^2 30^\circ} = \sin^2 30^\circ + 4 \cot^2 45^\circ - \sec^2 60^\circ$ Then value of x is:

A $\frac{1}{\sqrt{3}}$

B $\frac{1}{5}$

C $\frac{1}{4}$

D $\frac{1}{2}$

Answer: D

Explanation:

Expression : $\frac{x - x \tan^2 30^\circ}{1 + \tan^2 30^\circ} = \sin^2 30^\circ + 4 \cot^2 45^\circ - \sec^2 60^\circ$

$$\Rightarrow \frac{x - x(\frac{1}{\sqrt{3}})^2}{1 + (\frac{1}{\sqrt{3}})^2} = (\frac{1}{2})^2 + 4(1)^2 - (2)^2$$

$$\Rightarrow \frac{2x}{\frac{4}{3}} = \frac{1}{4} + 4 - 4$$

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

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

\Rightarrow Ans - (D)

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Question 141

A train is 250 m long. If the train takes 50 seconds to cross a tree by the railway line, then the speed of the train in km/hr is:

A 10

B 5

C 18

D 9

Answer: C

Explanation:

Length of train = 250 m and time taken = 50 seconds

$$\Rightarrow \text{Speed} = \frac{250}{50} = 5 \text{ m/s}$$

Thus, speed (in km/hr) = $5 \times \frac{18}{5} = 18 \text{ km/hr}$

\Rightarrow Ans - (C)

Question 142

The marked price of a CD is ₹250. It is sold for ₹225. The rate of discount is:

A 10%

B $11\frac{1}{9}\%$

C 25%

D 2.5%

Answer: A

Explanation:

Marked price = Rs. 250

Selling price = Rs. 225

$$\Rightarrow \text{Discount \%} = \frac{(250 - 225)}{250} \times 100$$

$$= \frac{25}{250} = 10\%$$

\Rightarrow Ans - (A)

Question 143

Mohan purchased a bag with 20 percent discount on the tag called price. He sold it with 40 percent profit on the price he bought. The percentage of profit on the labelled price is:

A 24%

B 20%

C 18%

D 12%

Answer: D

Explanation:

Let Marked price = Rs. 100

Discount % = 20%

$$\Rightarrow \text{Mohan's cost price} = 100 - \left(\frac{20}{100} \times 100\right) = \text{Rs. } 80$$

Profit % = 40%

$$\Rightarrow \text{Selling price} = 80 + \left(\frac{40}{100} \times 80\right)$$

$$= 80 + 32 = \text{Rs. } 112$$

$$\therefore \text{Percentage of profit on the labelled price} = \frac{(112 - 100)}{100} \times 100 = 12\%$$

\Rightarrow Ans - (D)

Daily Free SSC Practice Set

Question 144

If $5416x6$ is a perfect square, then the digit at 'x' is:

A 9

B 4

C 5

D 6

Answer: A

Explanation:

A perfect square ending with '6' can only have an odd digit at its ten's place, i.e. second last digit. Thus second and last options are eliminated.

$$\text{Now, } \sqrt{541656} < 736$$

and $\sqrt{541696} = 736$

=> Ans - (A)

Question 145

Ram babu donated 3% of his income to a charity and deposited 12% of the rest in bank. If now he has ₹12804, then his income was:

- A 17460
- B 7500
- C 15000
- D 14550

Answer: C

Explanation:

Let income = Rs. $100x$

Amount left after donation = $100x - \left(\frac{3}{100} \times 100x\right) = Rs. 97x$

Amount left after depositing in bank = $97x - \left(\frac{12}{100} \times 97x\right)$
 $= 97x - 11.64x = Rs. 85.36x$

According to ques, => $85.36x = 12,804$

=> $x = \frac{12804}{85.36} = 150$

∴ Income = $100 \times 150 = Rs. 15,000$

=> Ans - (C)

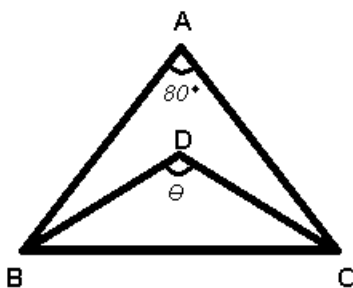
Question 146

In $\triangle ABC$, the internal bisectors of $\angle B$ and $\angle C$ meet at point D. If $\angle A = 80^\circ$, then $\angle BDC$ is of:

- A 130°
- B 120°
- C 100°
- D 140°

Answer: A

Explanation:



Given : D is the incentre of $\triangle ABC$ and $\angle BAC = 80^\circ$

To find : $\angle BDC = \theta = ?$

Incentre of a triangle = $90^\circ + \frac{\angle A}{2}$

$$\Rightarrow \theta = 90^\circ + \frac{80^\circ}{2}$$

$$\Rightarrow \theta = 90^\circ + 40^\circ$$

$$\Rightarrow \theta = 130^\circ$$

\Rightarrow Ans - (A)

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Question 147

A motor boat covers a certain distance downstream in a river in 3 hours. It covers the same distance upstream in 3 hours and half. If the speed of the water is 1.5 km/h, then the speed of the boat in still water is :

A 17.5 km/h

B 19 km/h

C 19.5 km/h

D 17 km/h

Answer: C

Explanation:

Let speed of boat = x km/hr

\Rightarrow Downstream speed = $(x + 1.5)$ km and upstream speed = $(x - 1.5)$ km

\therefore Distance travelled is same and speed is inversely proportional to time,

$$\Rightarrow \frac{x+1.5}{x-1.5} = \frac{3.5}{3}$$

$$\Rightarrow 3x + 4.5 = 3.5x - 5.25$$

$$\Rightarrow 3.5x - 3x = 4.5 + 5.25$$

$$\Rightarrow \frac{x}{2} = 9.75$$

$$\Rightarrow x = 9.75 \times 2 = 19.5$$

\therefore Speed of the boat in still water = 19.5 km/hr

\Rightarrow Ans - (C)

Question 148

Let $AX \perp BC$ of an equilateral triangle ABC. Then the sum of the perpendicular distances of the sides of $\triangle ABC$ from any point inside the triangle is:

A Equal to AX

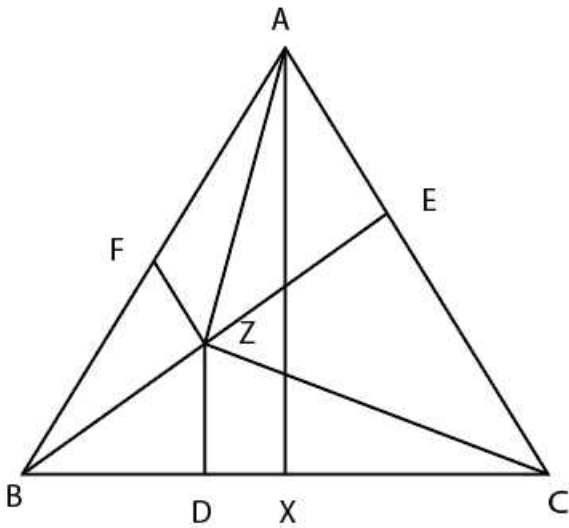
B Equal to BC

C Greater than AX

D Less than AX

Answer: A

Explanation:



Let Z be a point inside the triangle as shown in the figure

$ZD \perp BC$, $ZE \perp AC$, $ZF \perp AB$ and $AB=BC=CA$

Area of $(\triangle ZAB + \triangle ZBC + \triangle ZCA) = \text{Area of } \triangle ABC$

$$\Rightarrow \frac{1}{2} \times AB \times ZF + \frac{1}{2} \times BC \times ZD + \frac{1}{2} \times CA \times ZE = \frac{1}{2} \times BC \times AX$$

$$\Rightarrow \frac{1}{2} \times BC \times ZF + \frac{1}{2} \times BC \times ZD + \frac{1}{2} \times BC \times ZE = \frac{1}{2} \times BC \times AX$$

$$\Rightarrow ZF + ZD + ZE = AX$$

Hence, option A is the correct answer

Question 149

The sides of a triangle are in the ratio of 7:9:12. The difference between the lengths of largest and smallest sides is 15 cm. The length of the largest side would be:

- A 36 cm
- B 12 cm
- C 60 cm
- D 24 cm

Answer: A

Explanation:

Let the sides of the triangle be $7x, 9x, 12x$ cm respectively.

$$\Rightarrow \text{Difference between the lengths of largest and smallest sides} = 12x - 7x = 15$$

$$\Rightarrow 5x = 15$$

$$\Rightarrow x = \frac{15}{5} = 3$$

$$\therefore \text{Largest side} = 12 \times 3 = 36 \text{ cm}$$

\Rightarrow Ans - (A)

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Question 150

A boy aged 12 years is left with ₹100,000 which is under a trust. The trustees invest the money at 6% per annum and pay the minor boy a sum of ₹2500, for his pocket money at the end of each year. The expenses of trust come out to be ₹500 per annum. Find the amount that will be handed over to the minor boy after he attains the age of 18 years.

- A ₹125000
- B ₹120000
- C ₹118000
- D ₹150000

Answer: C

Explanation:

Sum after 12 years of age = Rs. 1,00,000

Rate of interest = 6% and time period = 6 years

$$\Rightarrow \text{Amount after 18 years} = P + \frac{P \times R \times T}{100}$$

$$= 1,00,000 + \frac{1,00,000 \times 6 \times 6}{100}$$

$$= 1,00,000 + 36,000 = \text{Rs. } 1,36,000$$

$$\text{Total expenses per year} = 2500 + 500 = \text{Rs. } 3,000$$

$$\Rightarrow \text{Total expenses for 6 years} = 6 \times 3000 = \text{Rs. } 18,000$$

$$\therefore \text{Amount attained} = 1,36,000 - 18,000 = \text{Rs. } 1,18,000$$

\Rightarrow Ans - (C)

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General Awareness

Instructions

For the following questions answer them individually

Question 151

Which of the following states is known as the traditional region for Tank Irrigation ?

- A Gujarat
- B Tamil Nadu
- C Assam
- D Orissa

Answer: B

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Question 152

Origin of Life by 'Natural Selection' is a book written by:

- A Charles Darwin
- B Lamarck
- C Hugo de Veris
- D Charles Dickens

Answer: A

Question 153

Who is popularly known as the Grand Old Man of India ?

- A Dadabhai Naroji
- B Madan Mohan Malaviya
- C Mahadeva Govinda
- D Surendranath Banerjee

Answer: A

Question 154

Unit of resistance is:

- A Volt
- B Volt x ampere
- C Ampere
- D Ohm

Answer: D

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Question 155

The gas liberated in the Bhopal gas tragedy was:

- A Ethylene
- B Pheynl isocynate
- C Methyl isocynate
- D Acetylene

Answer: C

Question 156

Network of a series of vertical and horizontal lines constructed perpendicular to each other is known as:

- A Latitudes
- B Grid system
- C Longitude
- D Geographic coordinates

Answer: B

Question 157

Then term "United Nations" was coined by:

- A Lenin
- B Churchill
- C Stalin
- D Roosevelt

Answer: D

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Question 158

Breaking physical memory into fixed-sized blocks called as:

- A Frames
- B Packets
- C Segments
- D Page

Answer: A

Question 159

Venturimeter is used to measure:

- A Rate of flow of liquids
- B Liquid pressure
- C Surface tension
- D Liquid density

Answer: A

Question 160

Which of the following pairs of physical quantities have the same dimensions ?

- A Work and Energy
- B Force and Power
- C Work and Power
- D Momentum and Power

Answer: A

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Question 161

Who is called as the "Prince of Moneyers?"

- A Ibrahim Lodhi
- B Mohammad-Bin-Thuglaq
- C Babar
- D Akbar

Answer: B

Question 162

Which of the following species are critically endangered ?

- A Forest Owlet
- B The gyps vulture
- C White bellied heron
- D Gangetic Dolphin

Answer: C

Question 163

Which law states that with constant taste and preferences, the proportion of income spend on food stuff diminishes as income increases ?

- A Gresham's Law
- B Griffin's Law
- C Say's Law
- D Engel's Law

Answer: D

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Question 164

The first Nobel Prize in Economics was awarded to:

- A Pau A. Samuelson
- B Amartya Sen
- C Jan Tinbergen and Regnar
- D Stiglitz

Answer: C

Question 165

The term Ecosystem was proposed by:

- A S.A. Forbes
- B Vernadsky
- C Thienemann
- D A.G. Tansley

Answer: D

Question 166

Which of the following is responsible for fostering the development of dance, drama and music in India ?

- A Sahitya Akademi
- B National School of Drama
- C Sangeet Natak Akademi
- D Lalit Kala Akademi

Answer: C

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Question 167

The main component of liquid bleach is:

- A Hydrochloric acid
- B Sodium Chloride
- C Sodium hypochlorate
- D Sodium hypochlorite

Answer: D

Question 168

International Women's Day is observed on:

- A 8th March
- B 15th October
- C 3rd March
- D 27th January

Answer: A

Question 169

VAT is imposed:

- A On first state of production
- B On all stages between production and sale

- C On final stage of production
- D Directly on Consumer

Answer: B

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Question 170

Chile saltpeter is the common name of

- A Potassium nitrate
- B Sodium nitrate
- C Sodium nitrite
- D Potassium nitrite

Answer: B

Question 171

The nobel Peace Prize for 2014 has been awarded to:

- A Kailash Satyarthi and Tawakkul Karman
- B Barak Obama
- C Kailash Satyarthi
- D Kailash Satyarthi and Masala Yousafzai

Answer: D

Question 172

BOD stands for:

- A Biochemical oxygen demand
- B Biotic oxidation demand
- C Biological oxygen demand
- D Biological oxidation

Answer: A

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Question 173

The highest title in Judo is

- A 12th Dan
- B Yellow Belt
- C 10th Dan

D Black Belt

Answer: C

Question 174

Araneology is the study of:

A Study of aphids

B Study of spiders

C Rearing of bees

D Study of mites

Answer: B

Question 175

IMP stands for:

A International Monetary Function

B Indian Manufacturing Firm

C International Monetary Fund

D Interest Minimum Function

Answer: C

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Question 176

In our country the Van Mahotsava day is celebrated on:

A 1st July

B 10th Aug

C 1st Dec

D 5th Oct

Answer: A

Question 177

Which type of switching is used in Internet ?

A Circuit

B Telephone

C Packet

D Telex

Answer: C

Question 178

The strongest oxidizing agent among the following is:

- A Oxygen
- B Chlorine
- C Fluorine
- D Iodine

Answer: C

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Question 179

Organic food is supposed to be better for human consumption because:

- A It is too expensive to buy
- B It is grown without the use of chemicals & synthetic pesticides
- C It is grown in glass house & air light environment
- D It depends on chemical & fertilizers

Answer: B

Question 180

Who translated 'Mahabharata' into Persian ?

- A Badauni
- B Abul Fazal
- C Ibn-Batuta
- D Babar

Answer: B

Question 181

The Ozone layer protects us from:

- A Infrared rays
- B Visible rays
- C Cosmic rays
- D Ultra-Violet rays

Answer: D

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Question 182

Commercially valued cork is obtained from:

- A Cedrus Deodara
- B Cycas
- C Ficus
- D Quercus sp.

Answer: D

Question 183

The oath office is administered to the Governor by the:

- A Chief Justice of High Court
- B President
- C Speaker of Legislative
- D Chief Justice of India

Answer: A

Question 184

Gas engine was invented by:

- A Davy
- B Daimler
- C Diesel
- D Charles

Answer: B

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Question 185

What is the superannuation period of Chief Justice of Supreme Court ?

- A 60 years
- B 62 years
- C 65 years
- D 66 years

Answer: C

Question 186

Scurvy

- A Vitamin 'B'
- B Vitamin 'A'
- C Vitamin 'D'
- D Vitamin 'C'

Answer: D

Question 187

Which brigadier was associated with Jallianwala Bagh tragedy ?

- A General Harris
- B General Dyer
- C Colonel Wellesly
- D Arthur Wellesly

Answer: B

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Question 188

Arboriculture is the study of:

- A Cultivation of trees and vegetables
- B Science of plant life
- C Art of garden cultivation
- D Art of growing crops

Answer: A

Question 189

Approximate number of skeletal muscles:

- A 206
- B 200
- C 500
- D 700

Answer: D

Question 190

Which of the following was the early capital of the Rashtrakutas ?

- A Sopara
- B Ellora

C Vatapi

D Ajanta

Answer: B

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Question 191

The "Recall Provision" to remove the elected office bearers from the local Self Government institution has been executed in:

A Madhya Pradesh

B Kerala

C Haryana

D Bihar

Answer: A

Question 192

What do you understand by the term 'Dark Fermentation' ?

A It is a method of reduce COD in the atmosphere

B It is a method to produce hydrogen as a fuel from waste water

C It is a method to produce methane from organic

D It is a method to dispose nuclear wastes

Answer: B

Question 193

Which state has longest coastline in India ?

A Maharashtra

B Andhra Pradesh

C Tamil Nadu

D Gujarat

Answer: D

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Question 194

Which of the Kushana ruler patronised Buddhism ?

A Kautilya

B Ashoka

C Vikramaditya

D Kanishka

Answer: D

Question 195

A cycle tyre bursts suddenly. This represents an:

A Isobaric process

B Isochoric process

C Isothermal process

D Adiabotic process

Answer: D

Question 196

Blue Revolution is related to:

A Poultry

B Fisheries

C Drinking water

D Space research

Answer: A

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Question 197

Planimeter is used to measure:

A Areas

B Road distance

C Direction

D Height of a region

Answer: A

Question 198

Arundhati Roy is the author of the book:

A The Algebra of Infinite Justice

B Half a life

C Truth, love and a little malice

D The Rising Sun

Answer: A

Question 199

Who built 'Adhai Din Ka Jhopra' or hut of two and half day's at Ajmer ?

- A Qutbuddin Aibak
- B Alauddin Khalji
- C Balban
- D Muhammad - bin - Tughlaq

Answer: A

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Question 200

Deen Dayal Antyodaya Yojana launched on September 25, 2014 is related to:

- A Women empowerment
- B Food security to old age rural people
- C Skill development in rural and urban areas
- D Poverty alleviation among SC/ST

Answer: C

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