



SSC CHSL 15 March 2018 Evening Shift

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General Awareness

Instructions

For the following questions answer them individually

Question 1

Recession is _____.

- A reduction in production and employment for want of sufficient demand for goods
- B rise in the cost of production, especially because of wage increase
- C increase in money supply without a matching increase in production
- D No option is correct.

Answer: A

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Question 2

Who of the following is considered as the father of "Green Revolution"?

- A Dr. Norman Borlaug
- B Dr. MS Swaminathan
- C Dr. Manmohan Singh
- D Dr. Henry Ford

Answer: A

Question 3

Which mineral is not found in the plateau regions?

- A Coal
- B Iron ore
- C mineral oil
- D Manganese

Answer: C

Question 4

Which are the two major rivers which emerge from the Amarkantak Plateau, but they flow in different directions?

- A Chambal and Betwa
- B Chambal and Sone
- C Narmada and Sone
- D Narmada and Betwa

Answer: C

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Question 5

The Shaka Era was founded in the year _____.

- A B.C. 57
- B A.D. 78
- C A.D. 319
- D A.D. 248

Answer: B

Question 6

Which ruler of Vijayanagar allowed the Portuguese to build a church in his empire?

- A Venkat II
- B Achyut Rai
- C Thirumal
- D Krishna Deva Rai

Answer: A

Question 7

Anoushka Shankar is related to which musical instrument?

- A Sitar
- B Tabla
- C Veena
- D Mohan Veena

Answer: A

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Question 8

Which country, on 25 October 2017 announced that it would be introduced a minimum wage for workers?

- A Bahrain
- B Kuwait
- C Oman
- D Qatar

Answer: D

Question 9

Who is the winner of the third Indian Council for cultural Relations (ICCR) distinguished indologist award - 2017

- A Hiroshi Marui
- B Owen King
- C Larry Sloman
- D Peggy Whitson

Answer: A

Question 10

Ping-pong Diplomacy is related to which of the following countries?

- A Myanmar
- B Japan
- C China
- D Taiwan

Answer: C

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Question 11

What is the valency of magnesium?

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

Answer: B

Question 12

What is the general formula of alkenes?

- A C_nH_{2n}
- B C_nH_{2n+2}
- C C_nH_{2n-2}
- D C_nH_{2n-1}

Answer: A

Question 13

According to Article 80 of Indian Constitution, Rajya Sabha can have a maximum strength of 250 members. Out of these 250 members how many are representatives of States and Union Territories ?

- A 230
- B 236
- C 238
- D 242

Answer: C

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Question 14

Under which Article of Indian Constitution an emergency can be declared on the grounds of failure of constitutional machinery in the States?

- A Article 350
- B Article 352
- C Article 356
- D Article 368

Answer: C

Question 15

During the day which process is the major driving force in the movement of water in the xylem?

- A Transpiration pull
- B Evaporation
- C Suction
- D Translocation

Answer: A

Question 16

Which of the following part of plant cell, is selectively permeable?

- A Cell wall
- B Cell membrane
- C Cytoplasm
- D Nucleus

Answer: B

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Question 17

In September 2017, Link - IV Pipeline Canal of Saurashtra Narmada Avtaran Irrigation (SAUNI) Yojana was launched in _____.

- A Madhya Pradesh
- B Rajasthan
- C Gujarat
- D Maharashtra

Answer: C

Question 18

What is the name of world's first artificial intelligence politician developed by New Zealand?

- A NICK
- B PAUL
- C SAM
- D TOM

Answer: C

Question 19

In October 2017, Insolvency and Bankruptcy Board of India (IBBI) relaxed norms for information utilities. Listed Indian companies can now hold _____ of the paid-up equity share capital or total voting power rights in such firms.

- A 80%
- B 90%
- C 100%
- D 50%

Answer: C

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Question 20

On 9 January 2018, the Companies (Amendment) Act, 2017 amended some provisions of _____.

- A Companies Act, 1956
- B Companies Act, 2011
- C Companies Act, 2013
- D Companies Act, 2014

Answer: C

Question 21

What is the heat generated (in J) in a heating element of resistance 1000Ω when a current of 0.1 A passes through it for 25 seconds?

- A 250

B 2500

C 125

D 1250

Answer: A

Question 22

1 pascal equals 1 _____.

A N m²

B N m⁻²

C N m

D N m⁻¹

Answer: B

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Question 23

By volume, 78% of air is _____.

A nitrogen

B oxygen

C hydrogen

D helium

Answer: A

Question 24

Which of the statements given below are correct?

A) In 2017, Max Verstappen raced in Formula One for Red Bull Racing.

B) In 2017, Steve Smith captained the IPL team Rising Pune Supergiant.

C) In 2017, Sergio Agüero played for the Premier League team Manchester City.

A Only A

B A and C

C Both B and C

D A, B and C

Answer: D

Question 25

In Microsoft Word, _____ provides tools for formatting like bold, italic, underline etc.

A Standard tool bar

- B Menu bar
- C Formatting tool bar
- D Status bar

Answer: C

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English

Instructions

For the following questions answer them individually

Question 26

In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'.

He was not (1) grateful for (2) Rahul for helping his cause. (3) No error (4)

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

Answer: B

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Question 27

In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'.

On the one hand, life seems transient like a dewdrop (1) and on the other hand, it is permanent (2) with the potential for eternal continuity. (3) No error (4)

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

Answer: D

Question 28

In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

The big tree was _____ the lake.

- A in

- B within
- C across
- D off

Answer: C

Question 29

In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

_____ people in slum areas have access to toilets even in Delhi.

- A The little
- B Few
- C Little
- D Every

Answer: B

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Question 30

In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word.

Heretic

- A Faithful
- B Cynic
- C Loyalist
- D Righteous

Answer: B

Question 31

In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word.

Covenant

- A Difference
- B Conversation
- C Bond
- D Devotion

Answer: C

Question 32

In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word.

Lechery

- A Lust
- B Binge
- C Excess
- D Benevolence

Answer: D

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Question 33

In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word.

Inhibit

- A Check
- B Stop
- C Frustrate
- D Allow

Answer: D

Question 34

Rearrange the parts of the sentence in correct order.

Logocentrism is the search for a

P : rational language that is able to

Q : all its aspects perfectly and accurately

R : know and represent the world and

- A RPQ
- B PQR
- C QPR
- D PRQ

Answer: D

Question 35

A sentence has been given in Active/Passive Voice. Out of the four given alternatives, select the one which best expresses the same sentence in Passive/Active Voice.

I am observing the animals.

- A The animals are observed.

- B The animals is being observed.
- C The animals are being observed.
- D The animals are under observation.

Answer: C

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Question 36

A sentence has been given in Direct/Indirect Speech. Out of the four given alternatives, select the one which best expresses the same sentence in Indirect/Direct Speech.

Kavita asked me, "How is your mother?"

- A Kavita asked me how was my mother.
- B Kavita asked her how my mother is.
- C Kavita asked how mother was.
- D Kavita asked me how my mother was.

Answer: B

Question 37

In the following question, a word has been written in four different ways out of which only one is correctly spelt. Select the correctly spelt word.

- A Camouflage
- B Cameousflage
- C Camouflege
- D Camioflaeg

Answer: A

Instructions

In the following passage, some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives.

The new civilisation of Righteousness and _____, and therefore of Brotherhood, of ordered Liberty, of Peace, of _____, cannot be built up until the elements are removed _____ have brought the old civilisation crashing about our ears. _____ is it necessary that the War shall be fought out to its appointed end, and that _____ premature peace shall leave its object unattained.

Question 38

Righteousness and _____, and therefore of Brotherhood,

- A judge
- B judgments
- C Justice
- D Judiciary

Answer: C

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Question 39

Peace, of _____, cannot be built up u

- A Happy
- B Happier
- C happiest
- D Happiness

Answer: D

Question 40

elements are removed _____ have brought

- A what
- B when
- C which
- D where

Answer: C

Question 41

crashing about our ears. _____ is it necessary

- A If
- B Because
- C Why
- D Therefore

Answer: D

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Question 42

appointed end, and that _____ premature peace

- A not
- B nor
- C no

D never

Answer: C

Instructions

For the following questions answer them individually

Question 43

In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.

Add insult to injury

- A To further a loss with mockery to worsen an unfavourable situation.
- B A disgrace becomes worse when friends and family disown you.
- C The world usually slanders a fallen person rather than help him.
- D A suffering is compounded if you are hurt at the same place again.

Answer: A

Question 44

In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.

Tie the knot

- A Get into a fight.
- B Get angry.
- C Get more complicated.
- D Get married.

Answer: D

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Question 45

In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.

Rub a part of the body to restore warmth or sensation

- A Asunder
- B Chafe
- C Gelid
- D Nippy

Answer: B

Question 46

In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.

Lasting for a very short time

- A Ephemeral
- B Immortal
- C Incessant
- D Perennial

Answer: A

Question 47

In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select "no improvement".

A case in point is Sydney, Australia, where last year more than 8,000 pedestrians (is fined) for illegally crossing city streets.

- A was fined
- B were fined
- C were being fine
- D no improvement

Answer: B

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Question 48

In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select "no improvement".

We (have been) away for a long time, you know, and so we're anxious to get home again.

- A has been
- B is been
- C have being
- D no improvement

Answer: D

Question 49

The question below consists of a set of labelled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph.

Inform all the other
A-would be punished
B-giving them a lift too
C-officers that anyone

- A CAB
- B BCA
- C CBA

D BAC

Answer: C

Question 50

In the following question, four words are given out of which one word is correctly spelt. Select the correctly spelt word.

A scentillate

B scintilate

C scintillate

D scentilate

Answer: C

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Reasoning

Instructions

For the following questions answer them individually

Question 51

In the following question, select the related word pair from the given alternatives.

Court : Lawyer :: ? : ?

A Restaurant : Waiter

B Doctor : Hospital

C Carnivorous : Lion

D Servant : House

Answer: A

Explanation:

Expression = Court : Lawyer :: ? : ?

The second works in the first, i.e. a lawyer works in a court, similarly a waiter works in a restaurant.

=> Ans - (A)

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Question 52

In the following question, select the related number from the given alternatives.

48 : 196 :: 52 : ?

A 184

B 198

C 212

D 238

Answer: C

Explanation:

Expression = $48 : 196 :: 52 : ?$

The numbers are of the form = $n : 4(n + 1)$

Eg :- $4 \times (48 + 1) = 4 \times 49 = 196$

Similarly, $4 \times (52 + 1) = 4 \times 53 = 212$

=> Ans - (C)

Question 53

In the following question, select the related letter pair from the given alternatives.

GSR : HTP :: ? : ?

A KTU : LUW

B CLK : DNL

C SPM : TRO

D RJH : SKF

Answer: D

Explanation:

Expression = $GSR : HTP :: ? : ?$

The pattern followed is :

G	S	R
(+1)	(+1)	(-2)
H	T	P

Similar pattern is observed only in = **RJH : SKF**

R	J	H
(+1)	(+1)	(-2)
S	K	F

=> Ans - (D)

Question 54

In the following question, select the odd word from the given alternatives.

A Odometer

B Thermometer

C Degree

D Barometer

Answer: C

Explanation:

Odometer, Thermometer and Barometer are instruments used to measure distance, temperature and atmospheric pressure respectively, hence **degree** is the odd one out.

=> Ans - (C)

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Question 55

In the following question, four number pairs are given. The number on left side of (-) is related to the number on the right side of (-) with some Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the

- A 23 - 529
- B 19 - 361
- C 11 - 121
- D 17 - 269

Answer: D

Explanation:

The second number is the square of the first number.

$$(23)^2 = 529$$

$$(19)^2 = 361$$

$$(11)^2 = 121$$

$$(17)^2 = 289 \neq 269$$

=> Ans - (D)

Question 56

In the following question, select the odd letter/letters from the given alternatives.

- A DKR
- B JQX
- C IPT
- D LSZ

Answer: C

Explanation:

(A) : D (+7 letters) = K (+7 letters) = R

(B) : J (+7 letters) = Q (+7 letters) = X

(C) : I (+7 letters) = P (+4 letters) = T

(D) : L (+7 letters) = S (+7 letters) = Z

=> Ans - (C)

Question 57

Arrange the given words in the sequence in which they occur in the dictionary.

1. Warp
2. Warrior
3. Wary
4. Wash
5. Wallet

A 51234

B 54123

C 12543

D 34521

Answer: A

Explanation:

As per the order of dictionary :

= Wallet -> Warp -> Warrior -> Wary -> Wash

≡ 51234

=> Ans - (A)

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Question 58

In the following question, select the missing number from the given series.

9, 9, 18, 54, 216, ?

A 1020

B 1080

C 636

D 740

Answer: B

Explanation:

Consecutive natural numbers are multiplied.

$$9 \times 1 = 9$$

$$9 \times 2 = 18$$

$$18 \times 3 = 54$$

$$54 \times 4 = 216$$

$$216 \times 5 = \mathbf{1080}$$

=> Ans - (B)

Question 59

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

AN, CQ, ET, ?, IZ

A HX

B GL

C NW

D GW

Answer: D

Explanation:

Series : AN, CQ, ET, ?, IZ

The pattern followed in each letter of the terms is :

1st letter : A (+2 letters) = C (+2 letters) = E (+2 letters) = G (+2 letters) = I

2nd letter : N (+3 letters) = Q (+3 letters) = T (+3 letters) = W (+3 letters) = Z

Thus, missing term = **GW**

=> Ans - (D)

Question 60

Akash leaves from his school at 5:30 a.m. He starts walking towards south and covers a distance of 20 km. He turns left and walks 15 km to reach point A. He turns right and walk 14 km. He again turns right and walks 10 km. How far (in km) and in which direction is he now from point A?

A $3\sqrt{43}$, South-West

B $3\sqrt{43}$, South-East

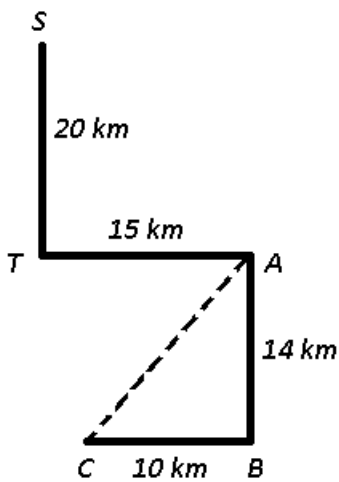
C $2\sqrt{74}$, South-West

D $2\sqrt{74}$, South-East

Answer: C

Explanation:

Let Akash starts walking from S towards south and covers a distance of 20 km to reach T. He turns left and walks 15 km to reach point A. He turns right and walk 14 km towards south to B. He again turns right and walks 10 km westwards to stop at C.



$$\Rightarrow (AC)^2 = (AB)^2 + (BC)^2$$

$$\Rightarrow (AC)^2 = (14)^2 + (10)^2$$

$$\Rightarrow (AC)^2 = 196 + 100 = 296$$

$$\Rightarrow AC = \sqrt{296} = 2\sqrt{74} \text{ km}$$

\therefore He is $2\sqrt{74}$ km **south-west** from point.

=> Ans - (C)

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Question 61

From the given alternatives, select the word which CANNOT be formed using the letters of the given word.

Reapproachment

A Rage

- B Approach
- C Rent
- D Cheap

Answer: A

Explanation:

The word REAPPROACHMENT does not contain any 'G', thus the term **Rage** cannot be formed.

=> Ans - (A)

Question 62

In a certain code language, "friend is honest" is written as "hu lip ma", "honest are men" is written as "lip fi kit" and "men never clever" is written as "fi ti gi". What is the code for "men" in that code language?

- A lip
- B fi
- C hu
- D ma

Answer: B

Explanation:

"honest are men" is written as "lip fi kit"

"men never clever" is written as "fi ti gi"

The common word in above statements is 'men' and the common code is = 'fi'

Thus, code for 'men' = 'fi'

=> Ans - (B)

Question 63

In a certain code language, '-' represents '+', '+' represents 'x', 'x' represents '÷' and '÷' represents '-'. Find out the answer to the following question.

$$9 - 14 + 15 \times 10 \div 16 = ?$$

- A 12
- B 14
- C 18
- D 26

Answer: B

Explanation:

$$\text{Expression : } 9 - 14 + 15 \times 10 \div 16 = ?$$

$$\equiv 9 + 14 \times 15 \div 10 - 16$$

$$= 9 + \frac{210}{10} - 16$$

$$= 21 - 7 = 14$$

=> Ans - (B)

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Question 64

The following equation is incorrect. Which two signs should be interchanged to correct the equation?

$$20 + 12 \times 35 - 20 \div 10 = 31$$

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

Answer: A

Explanation:

Expression : $20 + 12 \times 35 - 20 \div 10 = 31$

(A) : \div and $-$

$$\equiv 20 + 12 \times 35 \div 20 - 10 = 31$$

$$\text{L.H.S.} = 20 + (12 \times \frac{35}{20}) - 10$$

$$= 20 + 21 - 10 = 31 = \text{R.H.S.}$$

=> Ans - (A)

Question 65

If $5\Delta 1 = 40$, $9\Delta 9 = 0$ and $7\Delta 1 = 60$, then find the value of $4\Delta 9 = ?$

- A 80
- B -30
- C -50
- D -90

Answer: C

Explanation:

Given : $5\Delta 1 = 40$, $9\Delta 9 = 0$ and $7\Delta 1 = 60$

If we replace ' Δ ' with ' $'$ ', and multiply the difference by 10, we get the desired result.

$$\text{Eg :- } (5 - 1) \times 10 = 40$$

$$\text{and } (9 - 9) \times 10 = 0 \text{ and } (7 - 1) \times 10 = 60$$

$$\text{Similarly, } (4 - 9) \times 10 = -50$$

=> Ans - (C)

Question 66

Which of the following terms follows the trend of the given list?

ABCABcABC, ABCAbCABC, ABCaBCABC, ABcABCABC, AbCABCABC, _____.

- A ABCABCaBC
- B aBCABCABC

C ABCABcABC

D ABCAbCABC

Answer: B

Explanation:

Expression : ABCABcABC, ABCAbCABC, ABCaBCABC, AbcABCABC, AbCABCABC, _____.

The pattern followed in that above series is a combination of 3 'ABC' in which there is one small letter in each consecutive term, shifting one place to the left starting from 6th position.

Thus, in the missing term, first letter will be small = aBCABCABC

=> Ans - (B)

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Question 67

Parul cycles 3 km East, then turns South and cycles 1 km, then turns West and cycles 2.5 km, then turns to her right and cycles 1 km. Where is she now with reference to her starting position?

A 5.5 km East

B 0.5 km West

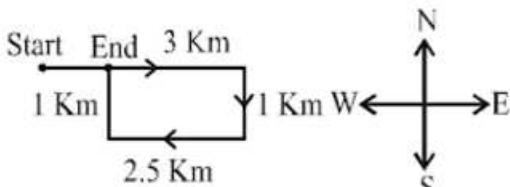
C 0.5 km East

D 5.5 km West

Answer: C

Explanation:

Parul cycles 3 km East from the starting point, then turns South and cycles 1 km, then turns West and cycles 2.5 km, then she turns to her right and cycles 1 km towards north to reach the end.



=> Distance = $3 - 2.5 = 0.5$ km

∴ Now she is **0.5 km east** with reference to her starting position.

=> Ans - (C)

Question 68

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

Statement I: All pictures are photographs

Statement II: All paintings are pictures

Conclusion I: All photographs are paintings

Conclusion II: All paintings are photographs

A Only conclusion I follows

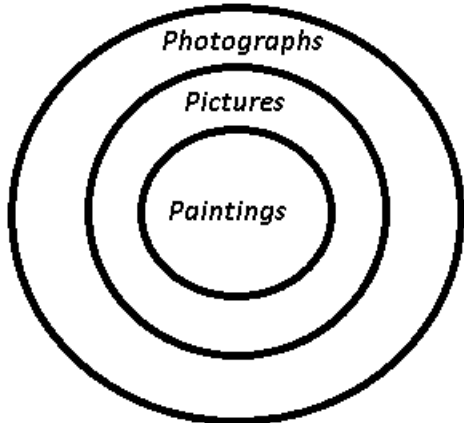
B Only conclusion II follows

- C Both conclusions I and II follow
- D Neither conclusion I nor conclusion II follows

Answer: B

Explanation:

The venn diagram for above statements is :



Conclusion I: All photographs are paintings = false

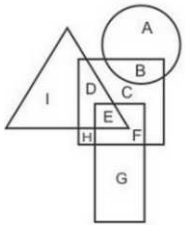
Conclusion II: All paintings are photographs = true

Thus, only conclusion II follows.

=> Ans - (B)

Question 69

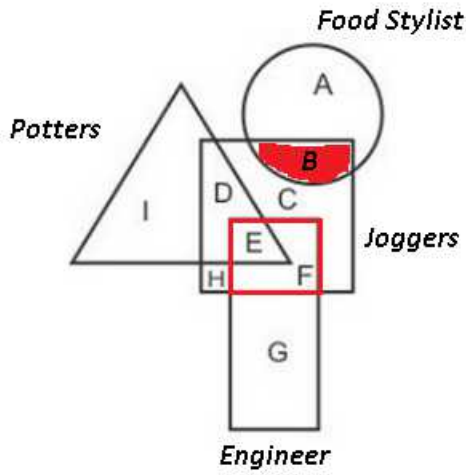
In the following figure, rectangle represents engineer, circle represents Food Stylist, triangle represents Potters and square represents Joggers. which set of letters represents joggers who are either engineers or food stylist ?



- A DCB
- B BEF
- C HEF
- D DEH

Answer: B

Explanation:



Joggers who are either engineers or food stylist are represented by = BEF

=> Ans - (B)

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Question 70

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

RPK, TSM, VVO, XYQ, ?

- A ZBS
- B APQ
- C ACT
- D YAR

Answer: A

Explanation:

Series : RPK, TSM, VVO, XYQ, ?

The pattern followed in each letter of the terms is :

1st letter : R (+2 letters) = T (+2 letters) = V (+2 letters) = X (+2 letters) = Z

2nd letter : P (+3 letters) = S (+3 letters) = V (+3 letters) = Y (+3 letters) = B

3rd letter : K (+2 letters) = M (+2 letters) = O (+2 letters) = Q (+2 letters) = S

Thus, missing term = **ZBS**

=> Ans - (A)

Question 71

In the following question, select the missing number from the given series.

8, 16, 43, 107, 232, ?

- A 342
- B 448
- C 248
- D 528

Answer: B

Explanation:

Cubes of consecutive integers are added.

$$8 + (2)^3 = 16$$

$$16 + (3)^3 = 43$$

$$43 + (4)^3 = 107$$

$$107 + (5)^3 = 232$$

$$232 + (6)^3 = 448$$

=> Ans - (B)

Question 72

In the following question, four groups of three numbers are given. In each group the second and third number are related to the first number by a Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

A (6, 24, 18)

B (9, 36, 27)

C (7, 28, 21)

D (5, 20, 10)

Answer: D

Explanation:

The numbers are of the form : $(x, 4x, 3x)$

But in the last option, we have $= 3 \times 5 = 15 \neq 10$

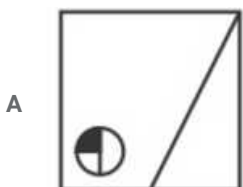
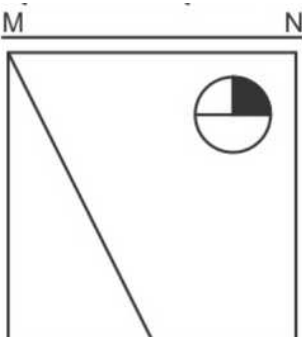
Thus, (5, 20, 10) is the odd one out.

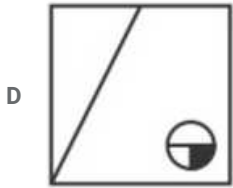
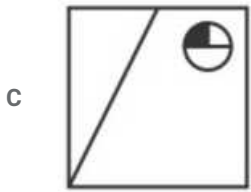
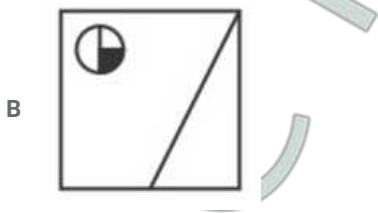
=> Ans - (D)

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Question 73

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





Answer: D

Explanation:

A horizontal mirror is placed, so the object on the top will appear at the bottom in reverse position and vice-versa.

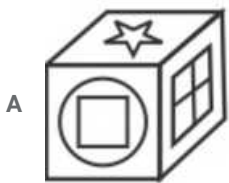
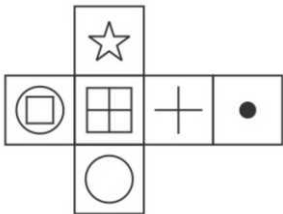
So the slanted line at top left will now start from bottom left, thus the first two options will be eliminated.

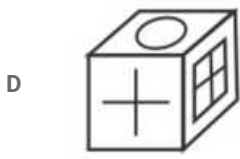
Also, in the question figure, the circle at top right will appear at bottom right side, hence fourth option is the right image.

=> Ans - (D)

Question 74

which of the following cube in the answer figure cannot be made based on the unfolded cube in the question figure ?

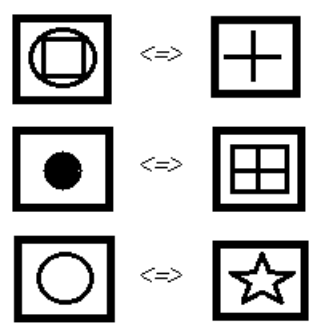




Answer: C

Explanation:

When we fold the given figure, the square with a 'window' sign will become the base of the cube and the side with only 'dot' sign will become top, and thus they will face each other. Similarly, the sides which will face each other will be :



Since, the opposite sides cannot be adjacent in the cube, thus the cube in the third option is not possible.

=> Ans - (C)

Question 75

A word is represented by only one set of numbers as given in any one of the alternatives. The set of numbers given in the alternatives are represented by two classes of alphabets as shown in the given two matrices. The columns and rows of matrix-1 are numbered from 0 to 4 and that of matrix-2 are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, for example 'D' can be represented by 12,34 etc and 'R' can be represented by 95,97 etc. Similarly, you have to identify the set for the word 'PLUS'.

Matrix I आव्यूह - I					
	0	1	2	3	4
0	H	J	D	B	J
1	B	I	D	L	K
2	I	L	F	C	K
3	B	F	M	L	D
4	H	J	A	G	H

Matrix II आव्यूह - II					
	5	6	7	8	9
5	W	V	S	U	W
6	Y	T	O	T	P
7	Z	O	S	S	Q
8	T	Q	T	Z	Q
9	R	S	R	N	V

- A 69,21,58,77
- B 14,99,34,66
- C 24,68,43,79
- D 43,58,24,55

Answer: A

Explanation:

- (A) : 69,21,58,77 = PLUS
- (B) : 14,99,34,66 = KVDT
- (C) : 24,68,43,79 = KTGQ

(D) : 43,58,24,55 = GUKW

=> Ans - (A)

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Quant

Instructions

For the following questions answer them individually

Question 76

Find the average of all prime numbers from 1 to 50.

A 21.867

B 22.857

C 23.887

D 24.867

Answer: A

Explanation:

Sum of all prime numbers from 1 to 50

$$= 2 + 3 + 5 + 7 + 11 + 13 + 17 + 19 + 23 + 29 + 31 + 37 + 41 + 43 + 47 = 328$$

$$\Rightarrow \text{Required average} = \frac{328}{15} = 21.867$$

=> Ans - (A)

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Question 77

Find the least number among $\frac{5}{9}$, $\sqrt{\frac{9}{49}}$, 0.43 and $(0.7)^2$.

A $\frac{9}{5}$

B $(0.7)^2$

C $\sqrt{\frac{9}{49}}$

D 0.43

Answer: C

Explanation:

Terms : $\frac{5}{9} \approx 0.56$

$$\sqrt{\frac{9}{49}} = \frac{3}{7} \approx 0.42$$

0.43

$$(0.7)^2 = 0.49$$

Thus, the least number is = $\sqrt{\frac{9}{49}}$

=> Ans - (C)

Question 78

If $3\sqrt{7} + \sqrt{343} = 19.21$, then find the value of $\sqrt{252} + 20\sqrt{7}$

- A 39.4
- B 49.9
- C 56.8
- D 92.3

Answer: B

Explanation:

Given, $3\sqrt{7} + \sqrt{343} = 19.21$

=> $3\sqrt{7} + \sqrt{7^3} = 19.21$

=> $3\sqrt{7} + 7\sqrt{7} = 19.21$

=> $10\sqrt{7} = 19.21$

=> $\sqrt{7} = \frac{19.21}{10}$

$\therefore \sqrt{252} + 20\sqrt{7} = \sqrt{16 \times 7} + 20\sqrt{7} = 4\sqrt{7} + 20\sqrt{7} = 24\sqrt{7} = 24 \times \frac{19.21}{10} = 49.9$

Question 79

If $xy = \frac{a+2}{3}$ and $\frac{x}{y} = \frac{1}{3}$, then find the value of $\frac{x^2+y^2}{x^2-y^2}$

- A 1
- B 4
- C 3
- D None of these

Answer: D

Explanation:

Given : $xy = \frac{a+2}{3}$ and $\frac{x}{y} = \frac{1}{3}$

Multiplying both equations, we get : $x^2 = \frac{a+2}{9}$ -----(i)

Dividing both equations, => $y^2 = a + 2$ -----(ii)

Adding equations (i) and (ii),

=> $x^2 + y^2 = \left(\frac{a+2}{9}\right) + (a + 2) = \frac{9a+18+a+2}{9}$

=> $x^2 + y^2 = \frac{10a+20}{9}$ -----(iii)

Similarly, subtracting equation (ii) from (i), => $x^2 - y^2 = \frac{-8a-16}{9}$ -----(iv)

Dividing equation (iii) by (iv), we get :

=> $\frac{x^2+y^2}{x^2-y^2} = \left(\frac{10a+20}{9}\right) \div \left(\frac{-8a-16}{9}\right)$

= $\frac{10a+20}{-8a-16} = \frac{10(a+2)}{-8(a+2)}$

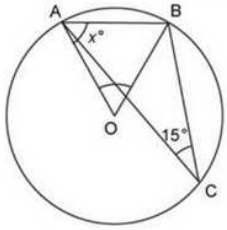
= $\frac{-5}{4}$

=> Ans - (D)

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Question 80

For the figure given below, find the angle OAB (.in degrees)



A 25

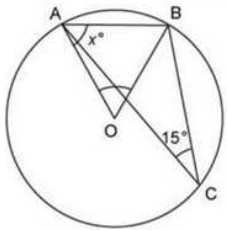
B 50

C 75

D 90

Answer: C

Explanation:



Given : $\angle ACB = 15^\circ$

To find : $\angle OAB = x = ?$

Solution : Angle subtended by an arc at the centre is double the angle subtended by the same arc at any other point on the circle.

$$\Rightarrow \angle AOB = 2 \times 15^\circ = 30^\circ \text{ ----- (i)}$$

Also, in $\triangle AOB$, $OA = OB =$ radius of circle,

$$\Rightarrow \angle OAB = \angle OBA = x \text{ [Angles opposite to equal sides]}$$

Thus, in $\triangle AOB$

$$\Rightarrow \angle x + \angle x + \angle AOB = 180^\circ$$

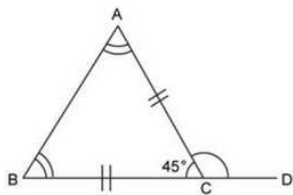
$$\Rightarrow 2\angle x = 180^\circ - 30^\circ \text{ [Using equation (i)]}$$

$$\Rightarrow \angle x = \frac{150^\circ}{2} = 75^\circ$$

=> Ans - (C)

Question 81

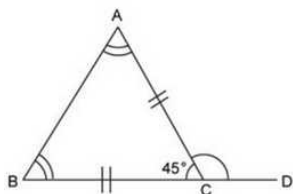
For the figure given below, find the value (in degrees) of $2\angle A + \angle B$



- A 180°
- B 202.5°
- C 250°
- D 279°

Answer: B

Explanation:



Given : $\angle C = 45^\circ$ and $AC = BC$

$\Rightarrow \angle A = \angle B$ [Angles opposite to equal sides]

Let $\angle A = x$

To find : $2\angle A + \angle B = 3x = ?$

Solution : In $\triangle ABC$,

$\Rightarrow \angle A + \angle B + \angle C = 180^\circ$

$\Rightarrow x + x = 180^\circ - 45^\circ = 135^\circ$

$\Rightarrow x = \frac{135^\circ}{2} = 67.5^\circ$

$\therefore 2\angle A + \angle B = 3x = 3 \times 67.5^\circ = 202.5^\circ$

\Rightarrow Ans - (B)

Question 82

If the side of a square is increased by 20%, then what will be the percentage increase in its perimeter?

- A 20
- B 40
- C 100
- D 50

Answer: A

Explanation:

Let side of square = $s = 10$ cm

$$\Rightarrow \text{Perimeter} = P = 4 \times 10 = 40 \text{ cm}$$

$$\text{After increase of 20\%, new side} = s' = 10 + \left(\frac{20}{100} \times 10\right) = 12 \text{ cm}$$

$$\Rightarrow \text{New perimeter} = P' = 4 \times 12 = 48 \text{ cm}$$

$$\therefore \text{Increase in perimeter} = \frac{(48-40)}{40} \times 100$$

$$= 8 \times 2.5 = 20\%$$

\Rightarrow Ans - (A)

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Question 83

The ratio of salary of X, Y and Z is 15 : 3 : 8. If Z gets Rs 3960 more than Y, then what is the salary (in Rs) of X?

A 11880

B 12360

C 9900

D 10240

Answer: A

Explanation:

Let salaries of X, Y and Z be $15x$, $3x$ and $8x$ respectively.

According to ques, $\Rightarrow 8x - 3x = 3960$

$$\Rightarrow 5x = 3960$$

$$\Rightarrow x = \frac{3960}{5} = 792$$

$$\therefore \text{X's salary} = 15 \times 792 = \text{Rs. } 11880$$

\Rightarrow Ans - (A)

Question 84

In a mixture, sugar and milk are in the ratio 4 : 5. If 7 litres of milk is added to it, then the ratio of sugar and milk in the new mixture becomes 2 : 3. What is the total quantity (In litres) of sugar in new mixture?

A 35

B 28

C 42

D 24

Answer: B

Explanation:

Let quantity of milk and sugar be $4x$ and $5x$ litres respectively.

According to ques,

$$\Rightarrow \frac{4x}{5x+7} = \frac{2}{3}$$

$$\Rightarrow 12x = 10x + 14$$

$$\Rightarrow 12x - 10x = 2x = 14$$

$$\Rightarrow x = \frac{14}{2} = 7$$

\therefore Total quantity of sugar = $4 \times 7 = 28$ litres

\Rightarrow Ans - (B)

Question 85

A boy spends Rs 20 to purchase toffees at Rs 1 each. Next day, he purchased some toffees for Rs 40 with a discount of 50 paise per toffee. What is the average price per toffee (in paise)?

A 45

B 60

C 40

D 55

Answer: B

Explanation:

The boy spends Rs 20 to purchase toffees at Rs 1 each, \Rightarrow Number of toffees bought = 20

Toffees purchase next day = $\frac{40}{0.50} = 80$

Total toffees bought = 100 and amount spent = Rs. 60 = 6000 paise

\Rightarrow Average price per toffee (in paise) = $\frac{6000}{100} = 60$

\Rightarrow Ans - (B)

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Question 86

Simple interest on a sum of Rs 6800 for 18 months is Rs 2244. What is the rate (in percentage) of interest per annum ?

A 24

B 18

C 20

D 22

Answer: D

Explanation:

Principal sum = Rs. 6800 and simple interest = Rs. 2244

Let rate of interest = $r\%$ and time period = $\frac{18}{12} = 1.5$ years

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

$\Rightarrow \frac{6800 \times r \times 1.5}{100} = 2244$

$\Rightarrow 102r = 2244$

$\Rightarrow r = \frac{2244}{102} = 22\%$

\Rightarrow Ans - (D)

Question 87

On selling 56 chairs, Mohan earns profit equal to the selling price of 6 chairs. What is the profit percentage?

- A 9.28
- B 10.71
- C 12
- D 13.7

Answer: C

Explanation:

Let cost price of a chair = Rs. x and selling price = Rs. y

Profit on selling 56 chairs = Rs. $56(y - x)$

According to ques,

$$\Rightarrow 56(y - x) = 6y$$

$$\Rightarrow 56y - 56x = 6y$$

$$\Rightarrow 56x = 56y - 6y = 50y$$

$$\Rightarrow \frac{y}{x} = \frac{56}{50}$$

Let $x = 50$ and $y = 56$

Thus, profit % = $\frac{(y-x)}{x} \times 100$

$$= \frac{(56-50)}{50} \times 100$$

$$= 6 \times 2 = 12\%$$

\Rightarrow Ans - (C)

Question 88

The marked price of an article is Rs 1200 and retailer gets a discount of 25%. If he sells that article for Rs 1200, then what is the profit percentage of retailer?

- A 33.33
- B 25
- C 37.5
- D 16.66

Answer: A

Explanation:

Marked price = Rs. 1200 and discount % = 25%

$$\Rightarrow \text{Cost price for the retailer} = 1200 - \left(\frac{25}{100} \times 1200\right)$$

$$= 1200 - 300 = \text{Rs. } 900$$

Now, selling price = Rs. 1200

$$\Rightarrow \text{Profit \%} = \frac{(1200-900)}{900} \times 100$$

$$= \frac{300}{9} = 33.33\%$$

\Rightarrow Ans - (A)

Question 89

If $\sqrt{20} + \sqrt{125} = 15.65$, then what is the value of $\sqrt{45} + \sqrt{5}$?

- A 6.98
- B 8.94
- C 9.98
- D 11.27

Answer: B

Explanation:

Given : $\sqrt{20} + \sqrt{125} = 15.65$

$$\Rightarrow 2\sqrt{5} + 5\sqrt{5} = 15.65$$

$$\Rightarrow \sqrt{5} = \frac{15.65}{7} \text{ -----(i)}$$

To find : $\sqrt{45} + \sqrt{5}$

$$= 3\sqrt{5} + \sqrt{5} = 4\sqrt{5}$$

$$= 4 \times \frac{15.65}{7} \approx 8.94$$

\Rightarrow Ans - (B)

Question 90

Both A and B together can complete a work in 20 days and B alone can complete the same work in 36 days. In how many days will A alone complete the work?

- A 30
- B 50
- C 45
- D 42

Answer: C

Explanation:

Let the total work to be done = L.C.M. (20,36) = 180 units

B alone can complete the same work in 36 days, \Rightarrow B's efficiency = $\frac{180}{36} = 5$ units/day

Similarly, (A+B)'s 1 day's work = $\frac{180}{20} = 9$ units/day

\Rightarrow A's efficiency = $9 - 5 = 4$ units/day

\therefore Time taken by A to complete the work alone = $\frac{180}{4} = 45$ days

\Rightarrow Ans - (C)

Question 91

A train moves at the speed of 40 m/s and crosses a bridge of length 550 metres in 25 seconds. What is the length (in metres) of the train?

- A 400
- B 450
- C 480

D 550

Answer: B

Explanation:

Let length of train = l m

Length of bridge = 550 m

Speed of train = 40 m/s and time taken = 25 seconds

Using, speed = distance/time

$$\Rightarrow 40 = \frac{l+550}{25}$$

$$\Rightarrow l + 550 = 40 \times 25 = 1000$$

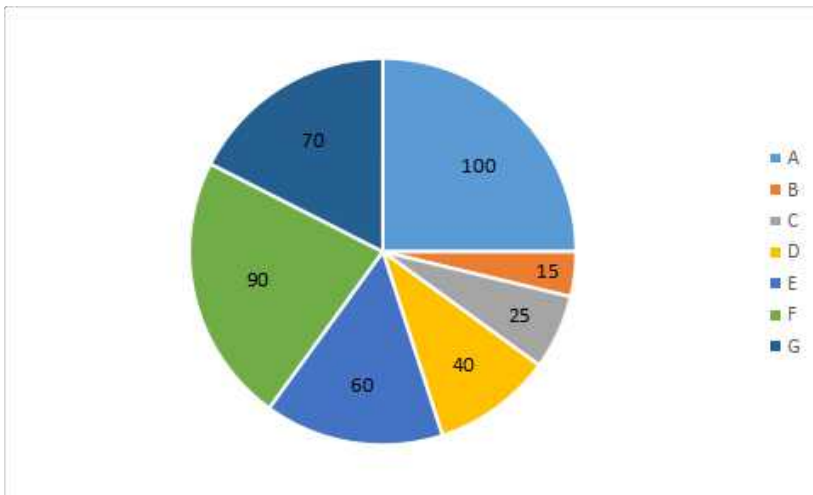
$$\Rightarrow l = 1000 - 550 = 450 \text{ m}$$

\Rightarrow Ans - (B)

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Question 92

Which party has the second highest seats?



A F

B G

C A

D D

Answer: A

Explanation:

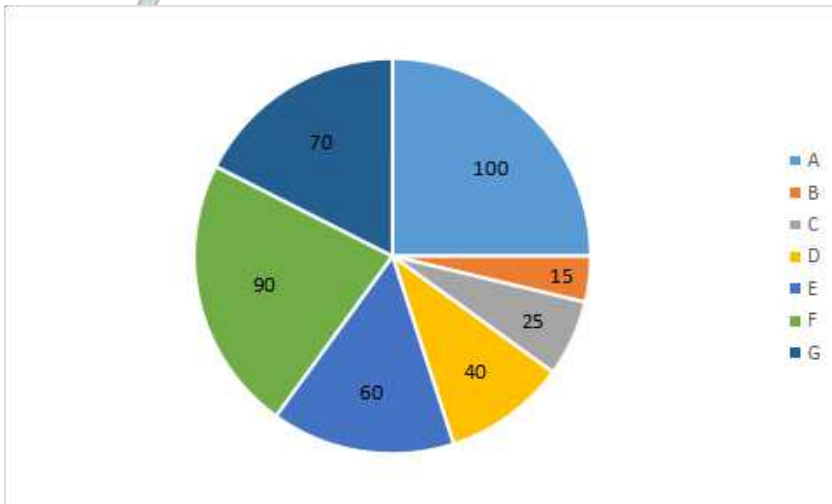
Number of seats of party A = 100 and number of seats of party F = 90

Clearly, party F has the second highest seats.

\Rightarrow Ans - (A)

Question 93

If the data shows the seats of all the parties then the lower house of parliament has how many seats in total?



- A 400
- B 300
- C 450
- D 360

Answer: A

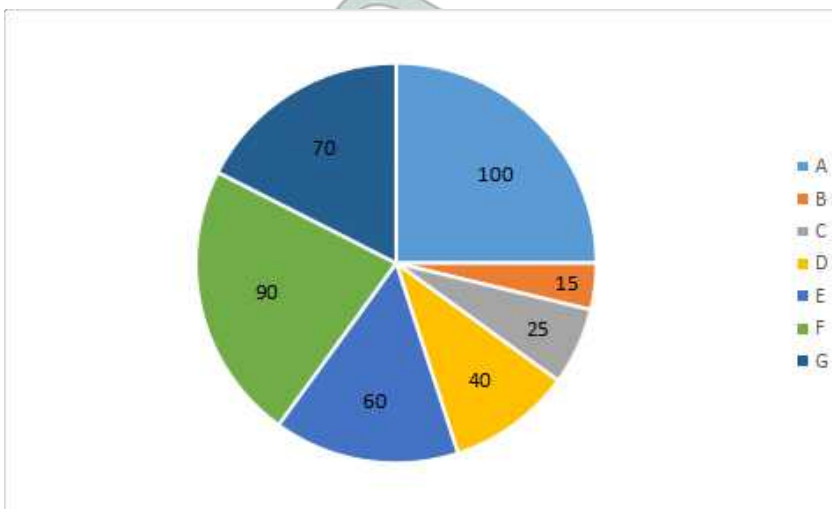
Explanation:

Total number of seats
 $= 100 + 15 + 25 + 40 + 60 + 90 + 70$
 $= 400$

=> Ans - (A)

Question 94

The measure of the central angle of the sector representing number of seats of party F is _____ degrees.



- A 60

- B 90
- C 81
- D 100

Answer: C

Explanation:

Number of seats of party F = 90

Total number of seats = $100 + 15 + 25 + 40 + 60 + 90 + 70 = 400$

=> Central angle of the sector representing number of seats of party F

$$= \frac{90}{400} \times 360^\circ$$

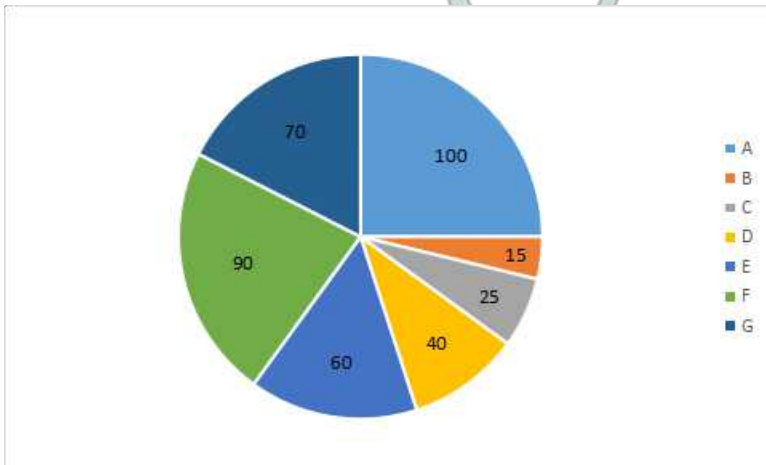
$$= \frac{90 \times 9}{10} = 81^\circ$$

=> Ans - (C)

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Question 95

If parties D, E and F form a coalition they would be still short of how many seats to reach the half way mark?



- A 20
- B 15
- C 10
- D 25

Answer: C

Explanation:

Total number of seats = $100 + 15 + 25 + 40 + 60 + 90 + 70 = 400$

Number of seats of parties D, E and F = $40 + 60 + 90 = 190$

Number of seat required to reach the half way mark ($\frac{400}{2} = 200$) is = $200 - 190 = 10$

=> Ans - (C)

Question 96

If the lengths of the two parallel sides of a trapezium are 4 cm and 6 cm and its area is 25 cm². Find the distance between its parallel sides (in cm).

- A 2.5
- B 10
- C 5
- D 7.5

Answer: C

Explanation:

Let distance between parallel sides = height of trapezium = h cm

=> Sum of lengths of parallel sides = $4 + 6 = 10$ cm

=> Area of trapezium = $\frac{1}{2} \times (\text{sum of parallel sides}) \times \text{height}$

=> $\frac{1}{2} \times 10 \times h = 25$

=> $h = \frac{25}{5} = 5$ cm

=> Ans - (C)

Question 97

If the circumference of a circle is 44 cm, then what must be its area (in cm^2)?

- A 308
- B 240
- C 154
- D 480

Answer: C

Explanation:

Let radius of circle = r cm

=> Circumference = $2\pi r = 44$

=> $2 \times \frac{22}{7} \times r = 44$

=> $r = 44 \times \frac{7}{44} = 7$ cm

\therefore Area of circle = πr^2

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

= $22 \times 7 = 154 \text{ cm}^2$

=> Ans - (C)

SSC CHSL Study Material

Question 98

The volume of a hemisphere is 5749.33 cubic cm. Find its diameter (in cm).

- A 14
- B 56
- C 42

D 28

Answer: D

Explanation:

Let radius of hemisphere = r cm

$$\text{Volume of hemisphere} = \frac{2}{3} \times \pi r^3$$

$$\Rightarrow \frac{2}{3} \times \frac{22}{7} \times (r)^3 = 5749.33$$

$$\Rightarrow (r)^3 = 5749.33 \times \frac{21}{44}$$

$$\Rightarrow (r)^3 = 274.399 \approx 2744$$

$$\Rightarrow r = \sqrt[3]{14 \times 196} = 14 \text{ cm}$$

$$\therefore \text{Diameter} = 2 \times 14 = 28 \text{ cm}$$

\Rightarrow Ans - (D)

Question 99

ΔPQR is right angled at Q. If $m\angle P = 45^\circ$, then find the value of $(\operatorname{cosec} R + 1/3)$

A $(\sqrt{3}+2)/2\sqrt{3}$

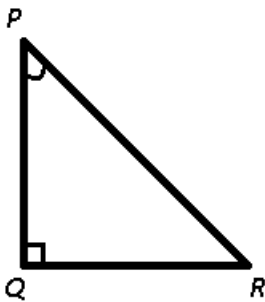
B $(\sqrt{3}+2)/2$

C $(3\sqrt{2}+1)/3$

D $(2+2\sqrt{3})/\sqrt{3}$

Answer: C

Explanation:



$$\text{Sum of angles of } \Delta PQR = \angle P + \angle Q + \angle R = 180^\circ$$

$$\Rightarrow 45^\circ + 90^\circ + \angle R = 180^\circ$$

$$\Rightarrow \angle R = 180^\circ - 135^\circ = 45^\circ$$

$$\text{To find : } (\operatorname{cosec} R + \frac{1}{3})$$

$$= \operatorname{cosec}(45^\circ) + \frac{1}{3}$$

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

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

\Rightarrow Ans - (C)

Question 100

In ΔPQR measure of angle Q is 90° . If $\cos P = 5/13$, and $PQ = 2.5$ cm, then what is the length (in cm) of side PR?

A 6

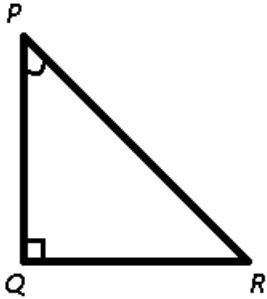
B 6.5

C 4

D 5.6

Answer: B

Explanation:



Given : $\cos P = \frac{5}{13}$

Also, $\cos P = \frac{PQ}{PR} = \frac{5}{13}$

Let $PQ = 5x$ cm and $PR = 13x$ cm

According to ques, $\Rightarrow 5x = 2.5$

$$\Rightarrow x = \frac{2.5}{5} = \frac{1}{2}$$

$$\therefore PR = 13 \times \frac{1}{2} = 6.5 \text{ cm}$$

\Rightarrow Ans - (B)

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