



SSC CGL 13 June 2019 Shift-2

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Reasoning

Instructions

For the following questions answer them individually

Question 1

Select the missing number from the given options.

36	52	86
28	40	12
32	46	?

- A 43
- B 53
- C 49
- D 51

Answer: C

Explanation:

Model is :

x

y

$(x + y)/2$

So , answer would be $(86 + 12) \div 2 = 49$.

So , the answer would be option c)49.

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Question 2

'A + B' means 'A is the sister of B'

'A - B' means 'A is the daughter of B'

'A × B' means 'A is the brother of B'

'A ÷ B' means 'A is the husband of B'

If $V + U \times Q - T \div R + P \times S$, then how is P related to V?

- A Paternal uncle
- B Maternal aunt
- C Maternal uncle
- D Paternal aunt

Answer: C

Explanation:

'A + B' means 'A is the sister of B'

'A - B' means 'A is the daughter of B'

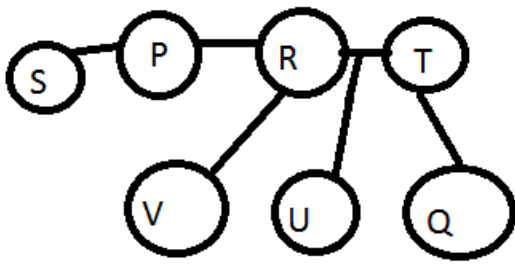
'A × B' means 'A is the brother of B'

'A ÷ B' means 'A is the husband of B'

If $V + U \times Q - T \div R + P \times S$,

which means

V is the sister of U is the brother of Q is the daughter of T is the husband of R is the sister of P is the brother of S



So, the answer would be option c) Maternal uncle.

Question 3

Two statements are given followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

All utensils are spoons.

All bowls are spoons.

Conclusions:

I No utensil is a bowl.

II. Some utensils are bowls.

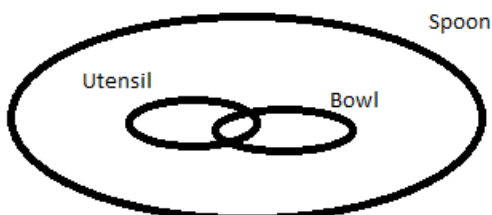
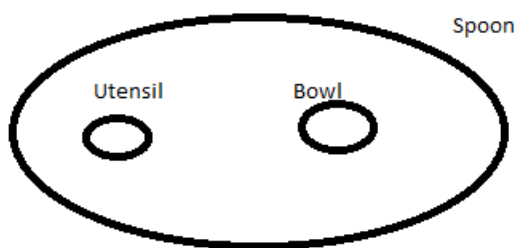
III. No spoon is a utensil.

- A Only conclusions I follows
- B Conclusions I and III follow
- C Either conclusion I or II follows
- D Only conclusion III follows

Answer: C

Explanation:

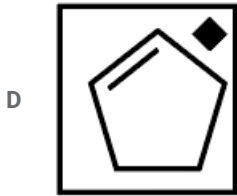
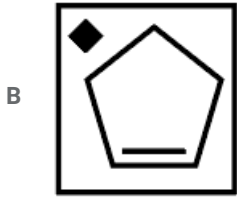
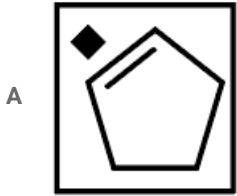
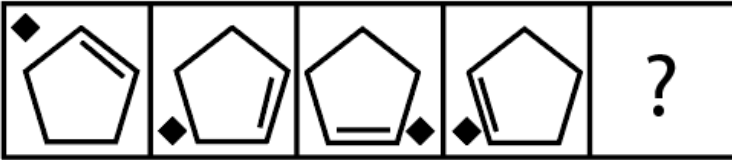
Relation between spoons, utensils and bowls can be represented by the following Venn diagram.



So, the answer would be option c.

Question 4

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



Answer: A

Explanation:

In the figure series, black square is moving in anticlockwise direction while the horizontal line is moving clockwise.



So, the answer would be option a.

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Question 5

Three different positions of the same dice are shown here. Which number is on the face opposite the face showing '5'?



- A 1
- B 3
- C 2
- D 6

Answer: C

Explanation:

If we take number 4, it will have 4 numbers adjacent to it on 4 sides.

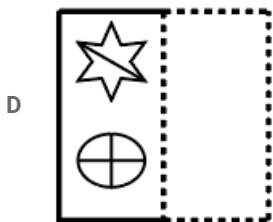
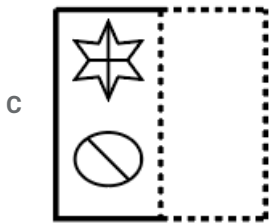
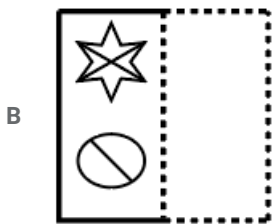
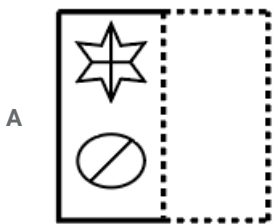
From figures, it is evident that the adjacent numbers for 4 are 6,2,1,5

From 1st dice, left side of 4 is 2 & top side is 6. Remaining sides to be known are right side and bottom side & numbers left are 1,5.

5 cannot be on bottom side as 5 is adjacent to 6 in third dice. Therefore, 5 will be on right side of 4 and it's opposite to "2". Therefore 2 is the answer.

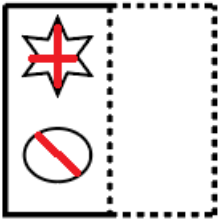
Question 6

Given below is a transparent sheet of paper with some patterns drawn on it. How would the transparent sheet look when it is folded on the dotted line ?



Answer: C

Explanation:



So , the answer would be option c.

Question 7

Select the option that is related to the third number in the same way as the second number is related to the first number.
12 : 192 :: 15 : ?

- A 245
- B 240
- C 225
- D 250

Answer: B

Explanation:

12 : 192

$$192 = 12 \times 16$$

15 : ?

$$240 = 15 \times 16$$

So , the answer would be option b)240.

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Question 8

The sum of the current ages of Shipra and Malini is 65 years. After 5 years, Shipra's age will be 15 years more than Malini's age. What is Malini's current age?

- A 25 years
- B 30 years
- C 15 years
- D 20 years

Answer: A

Explanation:

Let the age of Shipra be s and Malini be m.

$$s + m = 65 \text{ ----(1)}$$

After 5 years ,

$$s + 5 = m + 5 + 15$$

$$s - m = 15 \text{ ----(2)}$$

Solving (1) and (2) , we get ,

$s = 40$ and $m = 25$

So, the answer would be option a) 25 years.

Question 9

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

114, 127, 153, 192, 244, ?

A 309

B 361

C 344

D 284

Answer: A

Explanation:

$$127 - 114 = 13$$

$$153 - 127 = 26$$

$$192 - 153 = 39$$

$$244 - 192 = 52$$

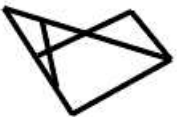
Difference is increasing by 13.

So, next term will be $244 + 65 = 309$

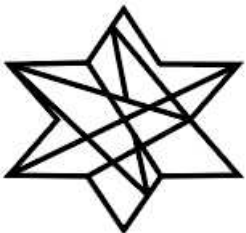
So, the answer would be option a) 309.

Question 10

Select the figure in which the given figure is embedded. (Rotation is not allowed)



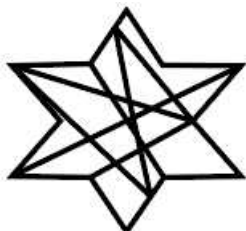
A

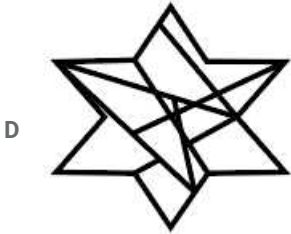


B



C





Answer: D

Explanation:



So , the answer would be option d.

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Question 11

Arrange the following words in a logical and meaningful order.

1. Wrist
2. Nails
3. Shoulder
4. Elbow
5. Palm
6. Fingers

- A 3, 5, 1, 4, 6, 2
B 3, 4, 1, 5, 6, 2
C 3, 4, 1, 2, 5, 6
D 3, 1, 4, 2, 5, 6

Answer: B

Explanation:

The order of organs is based on their presence in the body.

Shoulder > Elbow > Wrist > Palm > Fingers > Nails

So , the answer would be option b) 3, 4, 1, 5, 6, 2.

Question 12

Select the word-pair in which the two words are related in the same way as the two words in the following word-pair.

Dirty : Filthy

- A Perfect : Unique
B Shy : Timid
C Cute : Child
D Bright : Sunlight

Answer: B

Explanation:

Dirty and Filthy are synonyms, similarly shy and timid are synonyms.

While other pairs don't have that relation.

So, the answer would be option b) Shy : Timid.

Question 13

In a code language, TROPICAL is written as PORTLACI. How will DISTANCE be written in that language?

- A ISTSNAEF
- B TSIDECNA
- C TSIDECAN
- D STIDECNA

Answer: B

Explanation:

Group of 4 letters is made, and then letters are placed in inverted order.

TROPICAL

TROP - PORT & ICAL - LACI

So, for DISTANCE

DIST - TSID & ANCE - ECNA

So, the answer would be option b) TSIDECNA.

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Question 14

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

DGJ, BDN, ZAR, XXV, ?

- A VUZ
- B UUZ
- C VUY
- D VTZ

Answer: A

Explanation:

There are three letter series.

1st letter (moving backwards with one letter difference) : D c B a Z y X w V

2nd letter (moving backwards with two letter difference) : G fe D cb A zy X ww U

3rd letter (moving forward with three letter difference) : J klm N opq R stu V wxy Z

So, the answer would be option a) VUZ.

Question 15

Three of the following four number-pairs are alike in a certain way and one is different. Pick the odd pair out.

- A 4 : 27

B 49 : 218

C 16 : 125

D 9 : 64

Answer: B

Explanation:

Pattern is $x^2 : (x + 1)^3$

All options except 49:218 follows the same pattern.

So, the answer would be option b)49:218

Question 16

'Heart' is related to 'Circulation' in the same way as 'Kidney' is related to '.....'

A Reroduction

B Respiration

C Energy Production

D Excretion

Answer: D

Explanation:

Pumping of heart ensures circulation of blood in entire body. Similarly, kidney ensures the excretion of waste materials from the body.

So, the answer would be option d)Excretion.

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Question 17

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

M, E, P, H, S, ?, V, N

A U

B K

C M

D J

Answer: B

Explanation:

There are two series with the first letter and second letter.

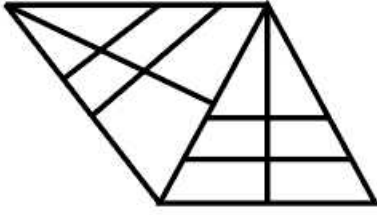
First letter series : M no P qr S tu V

Second letter series : E fg H ij K lm N

So, the answer would be option b)N.

Question 18

How many triangles are there in the following figure ?



- A 20
- B 18
- C 16
- D 22

Answer: B

Explanation:

Formula for the number of triangles :

$$\frac{n \times m \times (n+1)}{2} \text{ where } n = \text{number of vertical parts and } m = \text{number of horizontal parts.}$$

So , this figure has 2 triangles with 2 vertical parts and 3 horizontal parts.

$$\text{Using the formula : } \frac{2 \times 3 \times (2+1)}{2} \times 2 = 18$$

So , the answer would be option b)18.

Question 19

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

$$5 + 16 - 4 \times 14 \div 2 = 59$$

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

Answer: D

Explanation:

$$5 + 16 - 4 \times 14 \div 2 = 59$$

Interchanging \div and $-$, we get ,

$$5 + 16 \div 4 \times 14 - 2$$

$$= 5 + 4 \times 14 - 2$$

$$= 5 + 56 - 2$$

$$= 59$$

So , the answer would be option d)59.

Question 20

In a code language, if LAMINATE is coded as 121139141205, then how will SYSTEMIC be coded in the same language?

- A 1925192051393
- B 1925192051493
- C 1825182051393
- D 1925192051383

Answer: A

Explanation:

Each letter is represented by its position in the alphabet list.

L A M I N A T E - 12 1 13 9 14 1 20 5

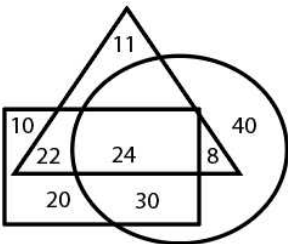
Similarly ,

S Y S T E M I C - 19 25 19 20 5 13 9 3

So , the answer would be option a)1925192051393.

Question 21

In the Venn diagram shown here, the triangle represents 'students', the circle represents 'diploma holders' and the quadrilateral represents 'graduates'. The numbers given in the diagram represents number of persons of that particular category.



How many students are diploma holders but NOT graduates?

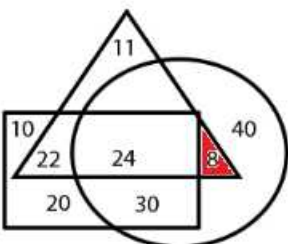
- A 8
- B 11
- C 40
- D 30

Answer: A

Explanation:

In the Venn diagram , the triangle represents 'students', the circle represents 'diploma holders' and the quadrilateral represents 'graduates'

Students are diploma holders but NOT graduate will be represented by overlapping region of triangle and circle only.



So , the answer would be option a)8.

Question 22

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

- A RVZDG
- B DHLPT
- C UYCGK
- D AEIMQ

Answer: A

Explanation:

DHLPT = Defg Hijk Lmno Pqrs T

UYCAK = Uvwx Yzab Cdef Ghij K

AEIMQ = Abcd Efgh Ijkl Mnop Q

While in RVZDG, there is no such sequence.

So, the answer would be option a)RVZDG.

General Science Notes for SSC CGL

Question 23

Select the correct mirror image of the given figure when the mirror is placed to the right of the figure.

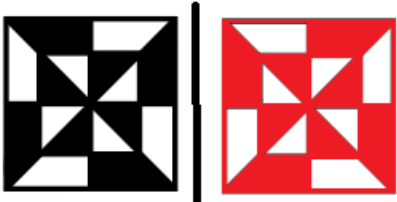


- A
- B
- C
- D

Answer: D

Explanation:

In mirror image , left most shape is on the right most edge and right most shape is on the left most edge.



So , the answer would be option d.

Question 24

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

- A Indigo
- B Silver
- C Orange
- D Violet

Answer: B

Explanation:

Indigo , Orange and Violet are colours while silver is a metal.

So, the answer would be option b)Silver.

Question 25

Select the missing number from the given options.

2	3	5
125	343	216
3	4	?

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

Answer: B

Explanation:

Model of square is :

x

$$(x + y)^3$$

y

$$216 = 6^3 = (5 + 1)^3$$

So , the answer would be option b)1.

General knowledge

Instructions

For the following questions answer them individually

Question 26

Chepu is a unique cultural symbol of _____.

- A Bhutan
- B Myanmar (Burma)
- C China
- D Nepal

Answer: D

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Question 27

Who among the following is/was the longest serving governor of an Indian state?

- A Lakshmi Kant Jha
- B Padmaja Naidu
- C N D Tiwari
- D Sarojini Naidu

Answer: B

Question 28

In which part of the body is blood produced?

- A Bone Marrow
- B Lungs
- C Brain
- D Heart

Answer: A

Question 29

In which year was the Battle of Saragarhi fought?

- A 1867
- B 1897
- C 1854

D 1878

Answer: B

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Question 30

As of April 2019 who is longest serving chief minister of an Indian state?

A Jyoti Basu

B Sheila Dixit

C Jayalalitha

D Pawan Chamling

Answer: D

Question 31

Byopa is a traditional headgear of tribes belonging to _____.

A Jharkhand

B Arunachal Pradesh

C Kerala

D Goa

Answer: B

Question 32

Identify the part of brain that controls the maintenance of posture, balance and equilibrium.

A Diencephalon

B Brainstem

C Cerebrum

D Cerebellum

Answer: D

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Question 33

In December 2018, Havelock Island was renamed as _____.

A Swaheed Dweep

B Swaraj Dweep

C Netaji Subhash Bose Island

D Veer Savarkar Island

Answer: B

Question 34

Which of the following is the national sport of Bangladesh?

A Kabaddi

B Kho Kho

C Cricket

D Boxing

Answer: A

Question 35

Wind turbines convert _____ energy into mechanical power.

A chemical

B nuclear

C gravitational

D kinetic

Answer: D

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Question 36

Which of the following is the largest container port of India?

A Jawaharlal Nehru Port

B Ennore Port

C Chhatrapati Shivaji Port

D Paradip Port

Answer: A

Question 37

Which theory in economics proposes that countries export what they can most efficiently and plentifully produce?

A Solow-Swan Model

B Heckscher-Ohlin Model

C Input-Output Model

D Cournot Competition

Answer: B

Question 38

Who is the author of the book The Buddha and His Dhamma?

- A Jawaharlal Nehru
- B B R Ambedkar
- C Rajmohan Gandhi
- D Sarojini Naidu

Answer: B

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Question 39

Name the comprehensive pension management system developed by the Department of Telecom in December 2018.

- A ACHARAN
- B SAMPANN
- C SAMADHAN
- D VIGYAN

Answer: B

Question 40

With which sport is the term bleeder associated?

- A Swimming
- B Volleyball
- C Cricket
- D Boxing

Answer: D

Question 41

What was the theme of World AIDS Day 2018?

- A Check Yourself
- B Save Yourself
- C Know your Status
- D We Shall Overcome

Answer: C

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Question 42

Which theory is used to make long-run predictions about exchange rates in a flexible exchange rate system?

- A Purchasing Power Parity Theory
- B Balance of Payment Theory
- C Interest Rate Approach
- D Portfolio Balance Approach

Answer: A

Question 43

The study of insects is called _____.

- A Ornithology
- B Anthropology
- C Geology
- D Entomology

Answer: D

Question 44

In which medical condition is the eye's optic nerve damaged and the condition worsens over time?

- A Cataract
- B Dry Eye
- C Age-related Macular Degeneration (AMD)
- D Glaucoma

Answer: D

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Question 45

Who was the first Russian prime minister to visit independent India?

- A Nikolai Bulganin
- B Mikhail Gorbachev
- C Boris Yeltsin
- D Vladimir Putin

Answer: A

Question 46

How many sessions of the Lok Sabha are normally held in a year?

- A 1.7
- B 2.5
- C 3.3
- D 4.2

Answer: C

Question 47

Which state of India was ruled by the Ahom Dynasty?

- A Karnataka
- B Assam
- C Rajasthan
- D Odisha

Answer: B

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Question 48

Which was the wettest place in India in 2018 as per the India Meteorological Department (IMD)?

- A Cherrapunji
- B Mawsynram
- C Mahabaleshwar
- D Ooty

Answer: C

Question 49

Which of the following is the highest peak in Sri Lanka?

- A Kirigalpotta
- B Hakgala
- C Mount Pedro
- D Bible Rock

Answer: C

Question 50

Who among the following was the last Nawab of Awadh?

- A Amjad Ali Khan

- B Muhammad Mukim
- C Wajid Ali Shah
- D Saadat Ali Khan

Answer: C

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Quant

Instructions

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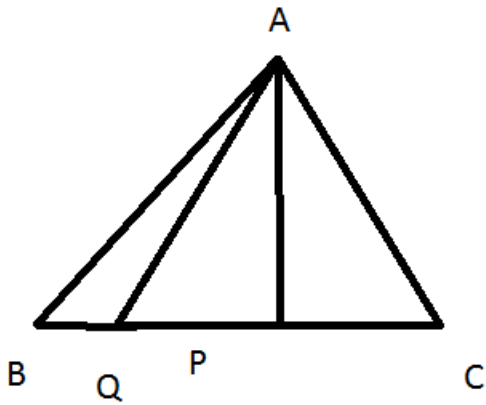
Question 51

In $\triangle ABC$, P is a point on BC such that $BP : PC = 4 : 11$. If Q is the midpoint of BP, then $\text{ar}(\triangle ABQ) : \text{ar}(\triangle ABC)$ is equal to:

- A 2:11
- B 2:15
- C 3:13
- D 2:13

Answer: B

Explanation:



From figure, we can observe that height of $\triangle ABC$ and $\triangle ABQ$ are equal.

$$\text{Area of } \triangle ABQ = \frac{1}{2} \times 2x \times h$$

$$\text{Area of } \triangle ABC = \frac{1}{2} \times 15x \times h$$

$$\frac{\text{area of } \triangle ABQ}{\text{area of } \triangle ABC} = 2:15$$

So, the answer would be option b) 2:15

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Question 52

If $\sqrt{x} + \frac{1}{\sqrt{x}} = \sqrt{6}$, then $x^2 + \frac{1}{x^2}$ is equal to:

- A 18

- B 14
- C 16
- D 12

Answer: B

Explanation:

$$\sqrt{x} + \frac{1}{\sqrt{x}} = \sqrt{6}$$

Squaring both the sides , we get,

$$x + \frac{1}{x} + 2 = 6$$

$$x + \frac{1}{x} = 4$$

Squaring both the sides , we get ,

$$x^2 + \frac{1}{x^2} + 2 = 16$$

$$x^2 + \frac{1}{x^2} = 14$$

So, the answer would be option b)14.

Question 53

An article is sold for ₹ 288 after successive discounts of 25% and x%. If the marked price of the article is ₹ 480, what is the value of x?

- A 20
- B 16
- C 15
- D 18

Answer: A

Explanation:

Selling price of the article = Rs.288

Discounts are applied on marked price.

So . according to question,

$$288 = 100 \times \frac{75}{100} \times \frac{100-x}{100} \times 480$$

$$x = 20$$

So , the answer would be option a)20.

Question 54

In a class of 50 students, 40% are girls. The average marks of the whole class are 64.4 and the average of the boys' marks is 62. What is the average mark of the girls?

- A 67
- B 66.8
- C 66.4
- D 68

Answer: D

Explanation:

Number of girls = 40% of 50 = 20

Number of boys = 30

Total marks of girls = $64.4 \times 50 - 62 \times 30 = 3220 - 1860 = 1360$

Average marks for girls = $\frac{1360}{20} = 68$

So, the answer would be option d) 68.

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Question 55

$$\sin \theta + \cos \theta$$

If $2 \sin \theta = 5 \cos \theta$, then $\sin \theta - \cos \theta$ is equal to:

A $\frac{5}{3}$

B $\frac{9}{5}$

C $\frac{2}{3}$

D $\frac{7}{3}$

Answer: D

Explanation:

$$2 \sin \theta = 5 \cos \theta$$

$$\Rightarrow \frac{\sin \theta}{\cos \theta} = \frac{5}{2}$$

$$\Rightarrow \frac{\sin \theta + \cos \theta}{\sin \theta - \cos \theta}$$

Divide both numerator and denominator by $\cos \theta$,

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

$$= \frac{7}{2}$$

$$= \frac{7}{3}$$

So, the answer would be option d) 7:3

Question 56

The efficiencies of A, B and C are in the ratio of 5 : 3 : 2. Working together, they can complete a task in 21 hours. In how many hours will B alone complete 40% of that task?

A 28

B 24

C 35

D 21

Answer: A

Explanation:

Total 1 hour work = $2d + 5d + 3d = 10d$

Work completed in 21 hours

\Rightarrow total Work = $21 \times 10d = 210d$

40% part of work = $(40/100) \times 210d = 84d$

B's 1 hour work = $3d$

B can complete 40% part of that work in = $84d \div 3d = 28$

So, the answer would be option b)28.

Question 57

The value of $\sin^2 32^\circ + \sin^2 58^\circ - \sin 30^\circ + \sec^2 60^\circ$ is equal to:

A 5.5

B 3.5

C 4.5

D 4

Answer: C

Explanation:

$\sin \theta = \sin(90 - \theta) = \cos \theta$

$\sin^2 58^\circ = \cos^2 58^\circ$

So, $\sin^2 32^\circ + \cos^2 32^\circ - \sin 30^\circ + \sec^2 60^\circ$

$= 1 - \frac{1}{2} + 4$

$= 4.5$

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Question 58

If $a + b + c = 10$ and $ab + bc + ca = 32$ then $a^3 + b^3 + c^3 - 3abc$ is equal to:

A 50

B 40

C 60

D 70

Answer: B

Explanation:

$a^3 + b^3 + c^3 - 3abc = (a + b + c)(a^2 + b^2 + c^2 - ab - bc - ca)$

First calculate $a^2 + b^2 + c^2$,

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

$a^2 + b^2 + c^2 = 100 - 64 = 36$

Putting this value in equation 1, we get,

$$a^3 + b^3 + c^3 - 3abc = 10(36 - 32) = 40$$

So, the answer would be option b)40.

Question 59

If $a - b = 5$ and $ab = 6$, then $(a^3 - b^3)$ is equal to:

- A 225
- B 155
- C 90
- D 215

Answer: D

Explanation:

$$a - b = 5$$

$$(a - b)^2 = a^2 + b^2 - 2ab = 25$$

$$a^2 + b^2 = 37$$

$$a^3 - b^3 = (a - b)(a^2 + ab + b^2)$$

$$\Rightarrow 5 \times (37 + 6) = 215$$

So, the answer would be option d)215.

Question 60

In a circle with centre O, an arc ABC subtends an angle of 110° at the centre of the circle. The chord AB is produced to a point P. Then $\angle CBP$ is equal to:

- A 60°
- B 55°
- C 65°
- D 70°

Answer: B

Explanation:

Take any point D on the circumference and join AD and DC.

$$\therefore \angle AOC = 2 \times \angle ADC$$

$$\Rightarrow \angle ADC = \frac{1}{2} \times \angle AOC = \frac{1}{2} \times 110 = 55^\circ$$

Now, $\angle PBC = \angle ADC$ [exterior angle of cyclic quadrilateral]

$$\Rightarrow \angle PBC = 55^\circ$$

So, the answer would be option b)55°.

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Question 61

In a circle of radius 17 cm, a chord is at a distance of 8 cm from the centre of the circle. What is the length of the chord?

- A 20 cm
- B 15 cm
- C 25 cm
- D 30 cm



Answer: D

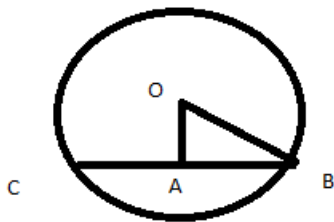
Explanation:

Let O be the centre of the circle and BC be the chord.

AO = 8 cm

OB = 17 cm

OA is perpendicular to BC and it bisects BC into equal halves.



Using Pythagoras theorem ,

AB = 15 cm

BC = 30 cm

So , the answer would be option d)30 cm.

Question 62

The Table shows the number of cars sold by three show rooms over a period of six years.

Showroom	Year					
	2011	2012	2013	2014	2015	2016
A	500	480	520	620	650	630
B	450	420	530	480	520	400
C	400	450	460	520	540	430

If the total number of cars sold by all three show rooms over the years is represented as a pie-chart, what is the central angle of the sector representing the total number of cars sold in the year 2013 (to the nearest whole number)?

- A 58°
- B 62°
- C 60°
- D 56°

Answer: C

Explanation:

Total sales in year

2011 - 1350

2012 - 1350

2013 - 1510

2014 - 1620

2015 - 1710

2016 - 1460

Total sales over the years for showrooms A,B and C = 9000

If 9000 corresponds to 360° in a pie chart

then total sales of year 2013 -1510 will correspond to $\frac{360 \times 1510}{9000} = 60.4^\circ$

So , the answer would be option c) 60°

Question 63

The price of sugar is increased by 17%. A person wants to increase his expenditure by 5% only. By approximately what percent should he decrease his consumption?

A 10.3

B 10.7

C 10.9

D 9.9

Answer: A

Explanation:

Expenditure = Price \times Consumption

Initially , let e be the expenditure , p be price and c be the consumption.

$$e = p \times c$$

Now , p is increased by 17% and expenditure can only be increased by 5 %. Let c' be the new consumption.

$$1.05 e = 1.17 p \times c'$$

$$c' = 89.74\%$$

So , consumption should be decreased by 10.25%.

So , the answer would be option b)10.3%.

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Instructions

The Table shows the number of cars sold by three show rooms over a period of six years.

Showroom	Year					
	2011	2012	2013	2014	2015	2016
A	500	480	520	620	650	630
B	450	420	530	480	520	400
C	400	450	460	520	540	430

Question 64

What is the ratio of the total cars sold by showroom B during the years 2014 and 2016 and the total cars sold by show room C during 2015 and 2016?

A 86 : 97

B 88 : 97

C 85 : 97

D 88 : 95

Answer: B

Explanation:

Total sales of B in 2014 and 2016 = $480 + 400 = 880$

Total sales of C in 2015 and 2016 = $540 + 430 = 970$

Required ratio = $\frac{880}{970} = \frac{88}{97}$

So, the answer would be option b) 88:97.

Question 65

By what percent did the total number of cars sold by all three show rooms decrease during the year 2016, as compared to that in the year 2015 (nearest to one decimal place)?

A 14.6%

B 14.8%

C 14.4%

D 14.9%

Answer: A

Explanation:

Total sales in year 2015 = $650 + 520 + 540 = 1710$

Total sales in year 2016 = $630 + 400 + 430 = 1460$

Decrease = $1710 - 1460 = 250$

% decrease = $\frac{250}{1710} \times 100$

So, the answer would be option a) 14.6%

Instructions

For the following questions answer them individually

Question 66

If $\operatorname{cosec} 2\theta = \sec(3\theta - 15^\circ)$, then θ is equal to:

A 22°

B 20°

C 25°

D 21°

Answer: D

Explanation:

$\operatorname{cosec} 2\theta = \sec(3\theta - 15)$

$= \sec(3\theta + 90 - 105)$

$= \sec(90 - (-3\theta + 105))$

$\{\sec(90 - \theta) = \operatorname{cosec}\theta\}$

$\operatorname{cosec} 2\theta = \operatorname{cosec}(-3\theta + 105)$

$2\theta = -3\theta + 105$

$$\theta = 21$$

So, the answer would be option d) 21° .

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Question 67

If $(5a - 3b) : (4a - 2b) = 2 : 3$, then $a : b$ is equal to:

A 3 : 4

B 2 : 3

C 5 : 8

D 5 : 7

Answer: D

Explanation:

$$(5a - 3b) : (4a - 2b) = 2 : 3$$

$$\Rightarrow 15a - 9b = 8a - 4b$$

$$\Rightarrow 7a = 5b$$

$$\Rightarrow a : b = 5 : 7$$

So, the answer would be option d) 5:7.

Question 68

$\triangle ABC \sim \triangle NLM$ and $ar(\triangle ABC) : ar(\triangle NLM) = 4 : 9$. If $AB = 6$ cm, $BC = 8$ cm and $AC = 12$ cm, then ML is equal to:

A 18 cm

B 9 cm

C 6 cm

D 12 cm

Answer: D

Explanation:

Theorem: If two triangles are similar, then the ratio of the area of both triangles is proportional to the square of the ratio of their corresponding sides. This proves that the ratio of areas of two similar triangles is proportional to the squares of the corresponding sides of both the triangles.

As $\triangle ABC \sim \triangle NLM$

$$\frac{\triangle ABC}{\triangle NLM} = \frac{BC^2}{LM^2}$$

$$\frac{2}{3} = \frac{BC}{LM}$$

$$\frac{2}{3} = \frac{8}{LM}$$

So, $LM = 12$ cm

So, the answer would be option d) 12 cm.

Question 69

Two articles are sold for ₹962 each. On one, the seller gains 30% and on the other he loses 26%. What is his overall gain or loss percentage, nearest to one decimal place?

- A 6.0% gain
- B 5.7% loss
- C 5.7% gain
- D 6.0% loss

Answer: B

Explanation:

Total Selling Price = $962 \times 2 = \text{Rs.}1924$

On first article, he made profit of 30%. Let the cost price of first article be x .

$$\frac{130}{100} \times x = 962 \Rightarrow x = \text{Rs.}740$$

On second article, he made a loss of 26%. Let the cost price of second article be y .

$$\frac{74}{100} \times y = 962 \Rightarrow y = \text{Rs.}1300$$

Total Cost Price = $\text{Rs.} (740 + 1300) = \text{Rs.}2040$

Loss = $\text{Rs} (2040 - 1924) = \text{Rs.}116$

$$\text{Loss \%} = \frac{116}{2040} \times 100 = 5.66\%$$

So, the answer would be option b) 5.7%

General Science Notes for SSC CGL

Question 70

The Table shows the number of cars sold by three showrooms over a period of six years.

Showroom	Year					
	2011	2012	2013	2014	2015	2016
A	500	480	520	620	650	630
B	450	420	530	480	520	400
C	400	450	460	520	540	430

What is the average number of cars sold by show room A over the given six years (nearest to one decimal place)?

- A 586.7
- B 566.7
- C 594.7
- D 592.7

Answer: B

Explanation:

Average number of cars sold by show room A over the given six years =

*Total number of cars sold by showroom A over the given six years
number of years*

$$\Rightarrow \frac{500+480+520+650+620+630}{6} = 566.7$$

So, the answer would be option b) 566.7

Question 71

What is the value of x so that the seven digit number $8439x53$ is divisible by 99?

- A 9

- B 4
- C 3
- D 6

Answer: B

Explanation:

8439x53 will be divisible by 99 if it is divisible by both 9 and 11.

Rule for 9: A number is divisible by 9 if the sum of the digits is divisible by 9

Rule for 11: Subtract and then add the digits in an alternating pattern from left to right. If the answer is 0 or 11, then the result is divisible by 11

If $x = 4$, then sum would be 36, satisfying the rule for 9.

Now, check for 11 : $8 - 4 + 3 - 9 + 4 - 5 + 3 = 0$

So, the answer would be option b)4.

Question 72

The difference between compound interest and simple interest on ₹x at 15% per annum for 2 years is ₹9. What is the value of x?

- A 600
- B 400
- C 450
- D 500

Answer: B

Explanation:

Formula for the difference between compound interest and simple interest :

$$CI - SI = \frac{Pr^2}{100^2}$$

$$9 = \frac{x \times 15^2}{100^2}$$

$$x = 400$$

So, the answer would be option b)400.

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Question 73

Walking at $\frac{7}{9}$ of his usual speed, a person reaches his office 10 minutes later than the usual time. His usual time in minutes is:

- A 35
- B 27
- C 42
- D 30

Answer: A

Explanation:

If the person is walking on $\frac{7}{9}$ th of his usual speed, he is taking $\frac{9}{7}$ th of his usual time. Let the usual time be x.

So, extra time = $\frac{2}{7}$ th of usual time

$$\frac{2}{7} \times x = 10 \Rightarrow x = 35 \text{ minutes}$$

So, the answer would be option a) 35 minutes.

Question 74

Five cubes, each of edge 3 cm are joined end to end. What is the total surface area of the resulting cuboid, in cm^2 ?

- A 244
- B 280
- C 270
- D 198

Answer: D

Explanation:

If 5 cubes with edge 3 cm are joined end to end, then resulting cuboid will have following dimensions :

Length: 15cm Breadth - 3cm Height 3cm

Total Surface Area of Cuboid : $2(lb + bw + wh)$

$$= 2(15 \times 3 + 3 \times 3 + 3 \times 15) = 2 \times 99 = 198 cm^2$$

So, the answer would be Option d) 198 cm^2 .

Question 75

The value of $15.2 + 5.8 \div 2.9 \times 2 - 3.5 \text{ of } 2 \div 0.5$ is equal to:

- A 4.8
- B 3.2
- C 5.2
- D 5.4

Answer: C

Explanation:

$$15.2 + 5.8 \div 2.9 \times 2 - 3.5 \text{ of } 2 \div 0.5$$

$$= 15.2 + 2 \times 2 - 14$$

$$= 15.2 + 4 - 14$$

$$= 5.2$$

So, the answer would be option c) 5.2

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English

Instructions

For the following questions answer them individually

Question 76

Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select No improvement.

How long you are living in this city?

- A are you live
- B are you been living
- C No improvement
- D have you lived

Answer: D

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Question 77

Select the correct passive form of the given sentence.
They will put away their woollens after the festival of Holi.

- A Their woollens are being put away after the festival of Holi.
- B Their woollens have been put away after the festival of Holi.
- C Their woollens will be put away after the festival of Holi.
- D Their woollens are put away after the festival of Holi.

Answer: C

Question 78

Select the word which means the same as the group of words given.
liable to break easily

- A brittle
- B soft
- C bent
- D thin

Answer: A

Question 79

Select the most appropriate synonym of the given word.
INSULT

- A remove
- B apply
- C offer
- D offend

Answer: D

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Question 80

Select the most appropriate option to fill in the blank.

I am quite satisfied that I have not been _____ in doing whatever was needful for building up their character.

- A negligent
- B devoted
- C caring
- D affectionate

Answer: A

Question 81

Given below are four jumbled sentences. Select the option that gives their correct order.

- A. He would sit at the edge of her mother's bed and stare into her crib.
- B. Arvind bumbled down the interminable corridor, suddenly reminded of his daughter in the days after she was born.
- C. As a proportion to the fragment of life his daughter had seen, an hour was a vast sprawling space.
- D. Some days he would imagine the world through her eyes and he would feel in his heart how long an hour actually was.

- A BCDA
- B BADC
- C DACB
- D ABCD

Answer: B

Question 82

Select the correctly spelt word.

- A mentoin
- B mention
- C mantion
- D mension

Answer: B

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Question 83

Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select **No improvement**.

The female ostrich guards the nest at night and the male guard it in the day.

- A guard it during the day.
- B guarding it during day.
- C guards it during the day.

D No improvement

Answer: C

Question 84

Select the most appropriate antonym of the given word.

PROGRESSIVE

A conservative

B repeated

C aristocratic

D moving

Answer: A

Question 85

Select the word which means the same as the group of words given.

impossible to satisfy

A satisfactory

B satisfiable

C contented

D insatiable

Answer: D

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Question 86

Select the correct active form of the given sentence.

Rudra was laughed at by all his friends when he wore his socks inside-out.

A If Rudra wears his socks inside-out all his friends will laugh at him.

B When Rudra wore his socks inside-out all his friends were laughing at him.

C All his friends will be laughing at Rudra for wearing his socks inside-out.

D All his friends laughed at Rudra when he wore his socks inside-out.

Answer: D

Question 87

Select the most appropriate option to fill in the blank.

Today, _____ society is literally poisoning the earth with acid rain.

A cosmopolitan

B developing

C growing

D industrialised

Answer: D

Question 88

Select the most appropriate meaning of the underlined idiom in the given sentence.
Let us have all the regulations in black and white.

A painted in colour

B printed in coloured ink

C written on the black-board

D in writing

Answer: D

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Instructions

In the sentence identify the segment which contains the grammatical error.

Question 89

Although there are more than a hundred known elements, they rarely occur at a pure state.

A more than a hundred

B Although there are

C at a pure state

D they rarely occur

Answer: C

Question 90

You may left the class when you have completed the test.

A the class

B when you have

C completed the test

D You may left

Answer: D

Instructions

For the following questions answer them individually

Question 91

Given below are four jumbled sentences. Select the option that gives their correct order.

A. It is a popular tourist spot for watching the sunset and sunrise over the ocean.

B. Kanyakumari is a coastal town in the State of Tamil Nadu on India's southern tip.

C. It is also a noted pilgrimage site, thanks to its Bagvathi Amman Temple and Our Lady of Ransom Church, a centre of Indian Catholicism.

D. Jutting out into the Laccadive sea, the town was known as Cape Comorin during the British rule.

A ACDB

B DCAB

C BDAC

D BCDA

Answer: C

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Question 92

Select the most appropriate meaning of the underlined idiom in the given sentence.

The invigilator did not know that the two boys were exchanging notes under his nose.

A written in small letters

B rolled into small pellets

C wrapped in handkerchiefs

D right in front of him

Answer: D

Question 93

Select the most appropriate synonym of the given word.

HOSTILITY

A enmity

B sympathy

C goodwill

D friendship

Answer: A

Question 94

Select the most appropriate antonym of the given word.

PUBLIC

A common

B ready

C private

D restricted

Answer: C

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Question 95

Select the correctly spelt word.

- A sweater
- B scissors
- C clettering
- D teribble

Answer: B

Instructions

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

Comprehension:

Marine Conservation Society is hosting the Anjarle Turtle festival 2019, aiming to make more people aware about Olive Ridley turtles. The sea (1) _____ get their names from their olivecoloured (2)_____. They grow to about two feet in (3)_____ and reportedly mate at around 1000 kilometers from the Anjarle (4)_____. These turtles come to the beach to lay (5)_____.

Question 96

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

- A snakes
- B fish
- C animal
- D turtles

Answer: D

Question 97

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

- A wings
- B shells
- C feathers
- D beaks

Answer: B

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Question 98

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

- A length
- B growth
- C weight

D depth

Answer: A

Question 99

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

A festival

B beach

C sea

D sand

Answer: B

Question 100

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

A young ones

B eggs

C pebbles

D shells

Answer: B

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