Instructions
For the following questions answer them individually.

Question 1
Select the missing number from the given options.

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<tbody>
<tr>
<td>36</td>
<td>52</td>
<td>86</td>
</tr>
<tr>
<td>28</td>
<td>40</td>
<td>12</td>
</tr>
<tr>
<td>32</td>
<td>46</td>
<td>?</td>
</tr>
</tbody>
</table>

A 43
B 53
C 49
D 51

Answer: C

Explanation:
Model is:

\[
x
\]

\[
y
\]

\[
\frac{(x + y)}{2}
\]

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

So, the answer would be option c)49.

Question 2
‘\(A + B\)’ means ‘\(A\) is the sister of \(B\)’
‘\(A - B\)’ means ‘\(A\) is the daughter of \(B\)’
‘\(A \times B\)’ means ‘\(A\) is the brother of \(B\)’
‘\(A \div B\)’ 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 \(B\)’
‘\(A \times B\)’ means ‘\(A\) is the brother of \(B\)’
‘\(A \div B\)’ 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 follow
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.

A
B
C
D

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.

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

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**Question 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
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.

---

**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 \(m\).

\[s + m = 65 ----(1)\]

After 5 years,

\[s + 5 = m + 5 + 15\]

\[s - m = 15 ----(2)\]

Solving (1) and (2) \(s\), 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)
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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.

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 f e D c b A z y X w v U
3rd letter (moving forward with three letter difference) : J k l m N o p q R s t u V w x y 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

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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 Reproduction
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:
\[ \frac{n \times m \times (n+1)}{2} \]
where \( n \) = number of vertical parts and \( m \) = number of horizontal parts.

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

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.
Answer: D

Explanation:
In mirror image, the 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.

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<td>3</td>
<td>5</td>
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<tr>
<td>125</td>
<td>343</td>
<td>216</td>
</tr>
<tr>
<td></td>
<td>4</td>
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</tbody>
</table>

A 2
B 1
C 4
D 3

Answer: B

Explanation:
Model of square is:

\[(x + y)^3\]

\[y\]

\[216 = 6^3 = (5 + 1)^3\]

So, the answer would be option b) 1.
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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
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

Question 33
In December 2018, Havelock Island was renamed as ______.

A. Swaheed Dweep  
B. Swaraj Dweep  
C. Netaji Subhash Bose Island  
Answer: C
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

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

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?

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Question 47
Which state of India was ruled by the Ahom Dynasty?

A Karnataka
B Assam
C Rajasthan
D Odisha

Answer: B

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
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 Quant

Instructions
For the following questions answer them individually

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.

Area of \( \triangle ABQ = \frac{1}{2} \times 2x \times h \)
Area of \( \triangle ABC = \frac{1}{2} \times 15x \times h \)

\[
\frac{\text{area of } \triangle ABQ}{\text{area of } \triangle ABC} = \frac{2}{15}
\]

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
\[ \sqrt{x} + \sqrt{z} = \sqrt{6} \]

Squaring both the sides, we get,
\[ x + z + 2 = 6 \]
\[ x + z = 4 \]

Squaring both the sides, we get,
\[ x^2 + z^2 + 2 = 16 \]
\[ x^2 + z^2 = 14 \]

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,
\[ \frac{75}{100} \times \frac{100-x}{100} \times 480 \]
\[ x = 20 \]
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 marks 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:
\[ 2 \sin \theta = 5 \cos \theta \]
\[ \sin \theta \]
\[ \Rightarrow \cos \theta = \frac{5}{2} \]
\[ \sin \theta + \cos \theta \]
\[ \Rightarrow \sin \theta - \cos \theta \]

Divide both numerator and denominator by \( \cos \theta \),
\[ \frac{\frac{5}{2} + 1}{\frac{5}{2} - 1} = \frac{\frac{7}{2}}{\frac{3}{2}} = \frac{7}{3} \]
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

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Answer: A

Explanation:
Total 1 hour work = 2d + 5d + 3d = 10d
Work completed in 21 hours
=> 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 , \( \sin^2 32^\circ + \cos^2 32^\circ - \sin 30^\circ + \sec^2 60^\circ \)
\[ = 1 - \frac{1}{2} + 4 \]
\[ = 4.5 \]

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:

\[ (a - b)^2 = a^2 + b^2 - 2ab = 25 \]
\[ a^2 + b^2 = 37 \]
\[ a^3 - b^3 = (a - b)(a^2 + ab + b^2) \]
\[ = 5 \times (37 + 6) = 215 \]

So, the answer would be option d)215.

**Question 60**

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

A $60^\circ$  
B $55^\circ$  
C $65^\circ$  
D $70^\circ$  

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°.

**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?
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.

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<thead>
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<td>520</td>
<td>620</td>
<td>650</td>
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</tr>
<tr>
<td>B</td>
<td>450</td>
<td>420</td>
<td>530</td>
<td>480</td>
<td>520</td>
<td>400</td>
</tr>
<tr>
<td>C</td>
<td>400</td>
<td>450</td>
<td>460</td>
<td>520</td>
<td>540</td>
<td>430</td>
</tr>
</tbody>
</table>

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 \( \frac{360 \times 1510}{9000} = 60.4° \)
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 × 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%.

SSC CGL Important Questions PDF

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

<table>
<thead>
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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 showroom C during 2015 and 2016?

A 86 : 97
B 88 : 97
C 85 : 97

Answer: A

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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 \( \cosec 2\theta = \sec (3\theta - 15^\circ) \), then \( \theta \) is equal to:

A 22°
B 20°
C 25°
D 21°

Answer: D

Explanation:
\[\cosec 2\theta = \sec (3\theta - 15^\circ)\]
\[= \sec (3\theta + 90^\circ - 105^\circ)\]
\[= \sec (90^\circ - (3\theta + 105^\circ))\]
\[\{\sec (90^\circ - \theta) = \cosec \theta\}\]
\[\cosec 2\theta = \cosec (-3\theta + 105^\circ)\]
\[2\theta = -3\theta + 105\]
So, the answer would be option d) 5:7.

**Question 68**

\[ \Delta ABC \sim \Delta NLM \text{ and } \text{ar}(\Delta ABC) : \text{ar}(\Delta NLM) = 4 : 9. \text{ If } AB = 6 \text{ cm, } BC = 8 \text{ cm and } AC = 12 \text{ cm, then } ML \text{ is equal to:} \]

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 \( \Delta ABC \sim \Delta NLM \)

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

\[
\frac{2}{3} = \frac{BC}{LM}
\]

\[
\frac{2}{3} = \frac{8}{LM}
\]

So, \( LM = 12 \text{ cm} \)

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 × 2 = Rs.1924
On first article, he made profit of 30%. Let the cost price of first article be x.
\[
\frac{130}{100} \times x = 962 \Rightarrow x = Rs.740
\]
On second article, he made a loss of 26%. Let the cost price of second article be y.
\[
\frac{74}{100} \times y = 962 \Rightarrow y = Rs.1300
\]
Total Cost Price = Rs. (740 + 1300) = Rs.2040
Loss = Rs (2040 - 1924) = Rs.116
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.

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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 = \(\frac{500 + 480 + 520 + 620 + 650 + 630}{6}\) = 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

**General Knowledge Notes for SSC CGL**
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 = \( \frac{px^2}{100^2} \)
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: 15 cm
Breadth: 3 cm
Height: 3 cm

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 \(15.2 + 5.8 \div 2.9 \times 2 - 3.5 \div 0.5\) is equal to:

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

**Answer:** C

**Explanation:**
\[
15.2 + 5.8 \div 2.9 \times 2 - 3.5 \div 0.5 \\
= 15.2 + 2 \times 2 - 14 \\
= 15.2 + 4 - 14 \\
= 5.2
\]
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

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
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

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 _______ in the day.

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

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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

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
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 blackboard  
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.

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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
Question 95
Select the correctly spelt word.

A sweather
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

Question 98
Select the most appropriate option to fill in blank No.(3)

A length
B growth
C weight
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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