Instructions
For the following questions answer them individually

Question 1
Select the word pair in which the two words are related in the same way as the two words in the following word-pair.
Brass : Copper

A  Bronze : Gold
B  Chromium : Silver
C  Solder : Tin
D  Nickle : Iron

Answer: C

Explanation:
As The primary component of Brass is Copper.
Similiarly
The primary component of the Solder is tin.

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Question 2
Priyank is Akshay’s brother. Sonia is Saksham’s sister. Akshay is Sonia’s son. How is Priyank related to Sonia?

A  Brother
B  Father
C  Nephew
D  Son

Answer: D

Explanation:
As per the question,
Relation 1. Priyank is the brother of Akshay.
Relation 2. Sonia is the sister of Saksham.
Relation 3. Akshay is the son of Sonia.
From the relation 1 and 3, Priyank is the son of Sonia.

Question 3
Select the figure that will come next in the following figure series.

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Explanation:
From the given pattern in the question,
Half filled circle is moving in the anti-clock wise and the black filled circle is following the path of the half filled circle path back to back as per the given diagram.

Question 4
Find the missing number from the below options.

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>17</td>
<td>22</td>
<td>37</td>
</tr>
<tr>
<td>23</td>
<td>28</td>
<td>43</td>
</tr>
<tr>
<td>16</td>
<td>?</td>
<td>36</td>
</tr>
</tbody>
</table>

A 34
B 32
C 21
D 12

Answer: C
Explanation:
From the given in the question, the logic pattern is given below

```
  17  22  37  
-6  -6  
23  28  43  
-7  -7  
15  21  36  -7
```

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Question 5
Select the correct mirror image of the given figure when the mirror is placed to the right of the figure.

```
R7MP
```

A
```
9M7R
```
B
```
9MR
```
C
```
R7MP
```
D
```
9MR
```

Answer: B

Explanation:
From the given question, from this we can conclude that the mirror image of the above letter will be

```
R7MP
```
```
9MR
```

Question 6
If AU = 21 and EGG = 245, then how will you code BAKE?

A
75
B
110
C
155
D
19
Answer: B

Explanation:
Given that,
AU = 21 and EGG = 245
A = 1st letter
U= 21st letter
AU = 1 \times 21 = 21
EGG = 5 \times 7 \times 7 = 245
BAKE = 2 \times 1 \times 11 \times 5 = 110
Hence, Option B is the correct answer.

Question 7
Select the figure in which the given figure is embedded.

Answer: D

Explanation:
From the pattern, we can recognize that Option D is the correct source in which the given pattern is available.

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Question 8
Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.

A FGE
B YZX
C NOR
D KLJ

Answer: C

Explanation:
From the given option in the question,

We can see that all the options are following the same pattern apart from the option C. So the option C is odd with respect to the given pattern.

Question 9
A square paper is folded and cut as shown below. How will it appear when unfolded?
Answer: D

Explanation:
It is given that,
After folding a paper, and marked a cut and starts to open the folding, then it will follow the below pattern.

we will starts from the 3rd folding.

next folding is given below
Question 10

Arrange the following words in a logical and meaningful order.
1) Write
2) Publish
3) Author
4) Reader
5) Sale

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

Answer: A

Explanation:
Given that,
1) Write
2) Publish
3) Author
4) Reader
5) Sale

So, (3) Author will (1) write a book which will (2) publish then after the (5) sale (4) reader will read.
Hence correct order will be 3, 1, 2, 5, 4.

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Question 11

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

Statements:
All teachers are painters.
Some painters are rich.

Conclusions:
I. All painters are teachers.
II. Some rich are not painters.

A Only conclusion II follows
B Neither conclusion I nor II follows
C Only conclusion I follows
D Either conclusion I or II follows

Answer: B

Explanation:
From the question,

**Statements:**
All teachers are painters.
Some painters are rich.

**Conclusions:**
I. All painters are teachers.
II. Some rich are not painters.

Conclusion I is not correct because, It is not compulsory that all painters are teacher, It may be or may not be. But all teachers are painter it is sure from the statement.

Statement II does not assure that some rich are not painters, It may be or may not be So it is also not following.

So option B is the correct answer.

**Question 12**

Select the terms that will replace the ? in the following series.
Z, X, V, ?, R, P, ?

A  S, N  
B  T, O  
C  T, N  
D  S, O  

**Answer:** C

**Explanation:**

It is given in the question,

Z, X, V, ?, R, P, ?

Now, substituting the values from the English alphabet on the place of ?.

Z → X → V → ? → R → P → N

Hence, correct answer will be T,N.

**Question 13**

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

A  17-37  
B  49-82  
C  65-101  
D  26-50  

**Answer:** B

**Explanation:**

From the given option,

⇒ 17 − 37 = 4² + 1 − 6² + 1 = 16 + 1 − 36 + 1
⇒ 49 − 82 = 7² − 9² + 1 = 49 − 81 + 1
⇒ 65 − 101 = 8² + 1 − 10² + 1 = 64 + 1 − 100 + 1
⇒ 26 − 50 = 5² + 1 − 7² + 1 = 25 + 1 − 49 + 1

Apart from the B, all the options are following the same pattern. Hence option odd pattern.
Question 14

Choose the Venn diagram from the given options which best represents the relationship amongst the following classes:
Wheat, Mustard, Cabbage

A

B

C

D

Answer: A

Explanation:
Wheat, Mustard and cabbage are different kind of foods.
So here option A will be the correct answer.

Question 15

In a code language, NEEDLE is written as MFDEKF. How will HAMMER be written in the same language?

A  IBLNDS
B  GBLNFT
C  GBLNDS
D  GALNDS

Answer: C

Explanation:
$N \rightarrow -1 M$
$E \rightarrow +1 F$
$E \rightarrow -1 D$
So respective pattern word is MFDEKF

Similarly HAMMER

\[\begin{align*}
D & \rightarrow E \\
L & \rightarrow K \\
E & \rightarrow F
\end{align*}\]

So next pattern will be GBLNDS

**Question 16**

How many triangles are there in the following figure?

A 30  
B 22  
C 16  
D 32  

**Answer:** A

**Explanation:**

When the line passing from the vertices and touching the base, then it is making n+1 triangle, and when line passing cutting horizontally as compare to the base then the total number of triangle = total number of horizontal line.

There are four triangle of type 1, so total triangle = 4 \times 3 = 12

There are 8 triangles of type 2, so total number of triangle = 8 \times 2 = 16
Two individual triangle = 2
hence total sum of the triangles = $12 + 16 + 2 = 30$

**SSC CGL Important Questions PDF**

**Question 17**

'Cheerful' is related to 'Sad' in the same way as 'Generous' is related to ..........

A  Intelligent  
B  Selfish  
C  Kind  
D  Gloomy  

**Answer:** B

**Explanation:**
Cheerful - Cheerful means a person or things that brings happiness.

Opposite meaning-
Sad - Feelings of unhappiness.
Generous - Its a feeling of readiness to give more.

Opposite meaning-
Selfish - Concern about own advantage and pleasure.
So option B is the correct answer.

**Question 18**

Three different positions of a dice are shown below. Which number appears on the face opposite the number 6 ?

A  4  
B  5  
C  2  
D  1  

**Answer:** B

**Explanation:**
As per the diagram, we can see that,  
face 3 and 4 are adjacent,  
face 3 and 5 are adjacent,  
and adjacent 4 and 5 are adjacent,  
so face 3, 4 and 5 are adjacent face.
But as per the diagram 1, face 4 and face 6 are adjacent faces. Hence from the above it is clear that face 5 is the opposite face of face 6.

Question 19

Find the missing number from the below options:

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>6</td>
<td>9</td>
</tr>
<tr>
<td>3</td>
<td>4</td>
<td>9</td>
</tr>
<tr>
<td>19</td>
<td>40</td>
<td>?</td>
</tr>
</tbody>
</table>

A. 90  
B. 80  
C. 100  
D. 72

Answer: A

Explanation:

Given that,

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>6</td>
<td>9</td>
</tr>
<tr>
<td>3</td>
<td>4</td>
<td>9</td>
</tr>
<tr>
<td>19</td>
<td>40</td>
<td>?</td>
</tr>
</tbody>
</table>

From the above, we can conclude that it is following the below pattern.

\[
4^2 + 3 = 4 \times 4 + 3 = 19 \\
6^2 + 4 = 6 \times 6 + 3 = 40 \\
9^2 + 9 = 9 \times 9 + 3 = 90
\]

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Question 20

At a party, the number of girls is half the number of boys. After an hour, five boys leave the party and three girls join the party then the number of boys and girls in the party becomes equal. How many people were present at the party an hour before?

A. 22  
B. 8  
C. 16  
D. 24

Answer: D

Explanation:

Let the number of girls in the party = \(x\)

As per the question,

The number of boy will be = 2\(x\)

As per the condition,
number boys remains in the party after leaving 5 boys = 2x - 5
and number of girls remain in the party after joining 3 girls = x + 3
So, number of boys = number of girls
⇒ 2x - 5 = x + 3
⇒ 2x - x = 5 + 3
⇒ x = 8
So the number of boy = 2 × 8 = 16
Hence, total number of member in the party = 8 + 16 = 24

Question 21
Select the term that will come next in the following series.
57, 62, 31, 36, 18, ?

A 23
B 36
C 34
D 19
Answer: A

Explanation:
57, 62, 31, 36, 18, ?
First term
57 + 5 → 62
Second terms
62 → half 62 → 2 = 31
Third terms
31 + 5 → 36
Fourth terms
36 → half 36 → 2 = 18
Fifth terms
18 + 5 → 18 + 5 = 23

Question 22
Three of the following four words are alike in a certain way and one is different. Pick the odd word out.

A Thorium
B Uranium
C Sodium
D Radium
Answer: C
Thorium, Uranium and Radium are the radioactive elements but Sodium is a metal. So it is different from the other three elements.

**General Science Notes for SSC CGL**

**Question 23**

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

2139 : 3246 :: 4262 : ..........

A 2371  
B 2471  
C 1461  
D 2483  

**Answer:** B

**Explanation:**

Given that

2139 : 3246 :: 4262 :?

For, 2139 and 3246

⇒ the sum of the digits of first terms 2 + 1 + 3 + 9 = 15

⇒ the sum of the digits of second terms 3 + 2 + 4 + 6 = 15

⇒ for the third terms, the sum of the digit 4 + 2 + 6 + 2 = 14

In the given option only the option B, which have the sum of the digit is equal to third terms

⇒ 2 + 4 + 7 + 1 = 14

**Question 24**

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

OBE, PDH, QFK, RHN, ?

A RJQ  
B SJP  
C SJQ  
D SKQ  

**Answer:** C

**Explanation:**

Relation between the first letter of each terms

\[ O \rightarrow P \rightarrow Q \rightarrow R \rightarrow S \]

Relation between the second letter of each terms

\[ B \rightarrow D \rightarrow F \rightarrow H \rightarrow J \]

Relation between the third letter of each terms

\[ E \rightarrow H \rightarrow K \rightarrow N \rightarrow Q \]

So next term will be SJQ
Question 25
Which two signs should be interchanged in the following equation to make it correct?

\[ 24 \div 8 - 5 \times 5 + 3 = 13 \]

A \( \times \) and +
B \( \div \) and ×
C \( \div \) and −
D \( \div \) and +

**Answer:** A

**Explanation:**

\( 24 \div 8 - 5 \times 5 + 3 = 13 \)

\[ \Rightarrow 3 - 5 \times 5 + 3 = -19 \neq 13 \]

So, after interchanging the sign of \( \times \) and +

\[ \Rightarrow 24 \div 8 - 5 + 5 \times 3 = 13 \]

\[ \Rightarrow 3 - 5 + 5 \times 3 = 13 \]

\[ \Rightarrow 3 - 5 + 15 = 13 \]

\[ \Rightarrow -5 + 18 = 13 \]

\[ \Rightarrow -13 = 13 \]

Hence, after interchanging the sign of \( \times \) and + will get the correct.

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**General knowledge**

**Instructions**
For the following questions answer them individually

**Question 26**
In India, \( 24^{th} \) January is observed as which one of the following days?

A National Farmer's Day
B National Girl Child Day
C National Agricultural Day
D National Day of Elderly

**Answer:** B

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**Question 27**
The Sepoy Mutiny in India started from _____.

A Meerut
Question 28
Fertile riverine alluvial soil is best suited for producing _____.

A rice
B Corn
C tea
D cotton
Answer: A

Question 29
Jorwe culture' was a Chalcolithic archaeological site located in the present day Indian state of _____.

A Bihar
B Assam
C Gujarat
D Maharashtra
Answer: D

Question 30
Vijay Hazare was a famous Indian player associated with the sport of _____.

A Cricket
B Boxing
C Football
D Rifle Shooting
Answer: A

Question 31
Name the national bird of Bhutan.

A Magpai
B Parrot
C Raven
Question 32
Which scientist discovered the 'Penicillin'?
A Robert Koch
B Ernst Chain
C Alexander Fleming
D Louis Pasteur
Answer: C

Question 33
The energy derived from the heat of Earth is called _____.
A Tidal Energy
B Geothermal Energy
C Biogas
D Solar Energy
Answer: B

Question 34
The term 'cherry picking' is used in which sport?
A Cricket
B Table Tennis
C Basketball
D Swimming
Answer: C

Question 35
Which economist gave the theory of Opportunity Cost?
A Adam Smith
B Gottfried Haberler
C Milton Friedman
D John Keynes
Answer: B
Question 36
Which of the following authors received the Jnanpith Award in 2018?

A  Arundhati Roy
B  Vikram Seth
C  Amitav Ghosh
D  Kiran Desai
Answer: C

Question 37
Which of the following acids is present in ant bites?

A  Perchloric acid
B  Formic acid
C  Nitric acid
D  Malic acid
Answer: B

Question 38
Marfati' songs are traditional folk songs of______.

A  Pakistan
B  Bangladesh
C  Nepal
D  Afghanistan
Answer: B

Question 39
The summer solstice 2019 in the Northern Hemisphere will occur on______.

A  21st June
B  20th June
C  24th June
D  26th June
Answer: A

Question 40
The demand for a commodity or service which is a consequence of the demand for something else is called______.

Answer: Substitute demand
Question 41
Who among the following wrote the book 'A History of the Sikhs'?

A Amrita Pritam
B Bhai Vir Singh
C Khushwant Singh
D Gurbachan Singh Talib

Answer: C

Question 42
Which of the following creatures is oviparous?

A Squirrel
B Rabbit
C Mouse
D Frog

Answer: D

Question 43
Which of the following stars is nearest to the sun?

A Deneb
B Sirius
C Betelgeuse
D Proxima Centauri

Answer: D

Question 44
Which article of the Constitution of India talks about the provisions for impeachment of the President of India?

A Article 54
Question 45
Identify the foreigner who has been conferred the second highest civilian award in India, Padma Vibhushan for 'exceptional and distinguished service' in 2019.

A John Chambers
B Kader Khan
C Pravin Gordhan
D Ismail Omar Guelleh
Answer: D

Question 46
Who among the following was named as the Chief Executive Officer of International Cricket Council (ICC)?

A Manu Sawhney
B Anurag Thakur
C Saurav Ganguly
D N G Khaitan
Answer: A

Question 47
In which year was the East India Company incorporated for the exploitation of trade with East and Southeast Asia and India?

A 1600
B 1596
C 1612
D 1605
Answer: A

Question 48
Which of the following is the smallest bird in the world?

A Bee Hummingbird
Question 49
What is the term of the elected representatives of a Gram Panchayat?

A 2 years  
B 4 years  
C 5 years  
D 3 years  
Answer: C

Question 50
Who was the Indian Army Chief at the time of Bangladesh Liberation War?

A K M Cariappa  
B Roy Bucher  
C Sam Manekshaw  
D Rob Lockhart  
Answer: C

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Quant

Instructions
For the following questions answer them individually

Question 51
The difference between the compound interest and simple interest on ₹ x at 8.5% per annum for 2 years is ₹ 28.90. The value of x is:

A 3800  
B 3500  
C 4000  
D 4500  
Answer: C

Explanation:
Given that,
Rate of interest = 8.5% per annum  
time = 2 years
difference between the compound interest and simple interest = 28.90 Rs.

Principle amount = x,

\[ P \times R \times t \]

Now, we know that simple interest (SI) = \[ \frac{x \times 8.5 \times 2}{100} \]

Substituting the values,
\[ SI = \frac{x \times 8.5 \times 2}{100} \]
\[ \Rightarrow SI = \frac{x \times 8.5 \times 2}{100} \]
\[ \Rightarrow SI = \frac{x \times 8.5 \times 2}{100} \] (i)

Now, for compound interest Final amount (A) = \( P(1 + \frac{R}{100})^t \)

Now substituting the values, \( A = x(1 + \frac{100}{100})^2 \)
\[ \Rightarrow A = x(1.085)^2 \]
\[ \Rightarrow A = x(1.085)^2 \]
\[ \Rightarrow A = 1.1772x \]

Hence compound interest \( CI = A - P = 1.177x - x = 0.177x \) (ii)

From equation (i) and (ii)
\[ CI - SI = 28.90 \]
\[ \Rightarrow 0.170x - 0.177x = 28.90 \]
\[ \Rightarrow 0.007x = 28.90 \]
\[ \Rightarrow x = 0.007 = 4128 \text{Rs.} \]

Option will be the correct answer because it's the nearest value.

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**Question 52**

If \(a + b + c = 8\) and \(ab + bc + ca = 12\), then \(a^3 + b^3 + c^3 - 3abc\) is equal to:

A 144  
B 400  
C 192  
D 224

Answer: D

Explanation:
Given that,
\(a + b + c = 8\) and \(ab + bc + ca = 12\)

Now, we know that \((a + b + c)^2 = (a^2 + b^2 + c^2 + 2ab + 2bc + 2ca)\)

Now substituting the values
\((a + b + c)^2 = (a^2 + b^2 + c^2 + 2(ab + bc + ca))\)
\[ \Rightarrow 8^2 = (a^2 + b^2 + c^2 + 2 \times 12) \]
\[ a^2 + b^2 + c^2 = 64 - 24 \]
\[ a^2 + b^2 + c^2 = 40 \]

Now,

\[ a^3 + b^3 + c^3 - 3abc = (a + b + c)(a^2 + b^2 + c^2 - ab - bc - ca) \]

Now substituting the values in the equation,

\[ a^3 + b^3 + c^3 - 3abc = 8(40 - 12) \]
\[ a^3 + b^3 + c^3 - 3abc = 224 \]

**Question 53**

If \( a : b = 5 : 3 \), then \( (8a - 5b) : (8a + 5b) \) is equal to:

A 2:5  
B 3:11  
C 5:11  
D 3:13

*Answer: C*

*Explanation:*

Given that,

\[ a : b = 5 : 3 \]
\[ a = 5k \]
\[ b = 3k \]

So,

\[ a = 5k \text{ and } b = 3k \]

Now,

\[ (8a - 5b) = 8 \times 5k - 5 \times 3k = 25k \]
\[ (8a + 5b) = 8 \times 5k + 5 \times 3k = 55k \]

\[ (8a - 5b) : (8a + 5b) = 5 : 11 \]

**Question 54**

If \( \tan 4\theta = \cot (2\theta + 30^\circ) \), then \( \theta \) is equal to:

A 20°  
B 25°  
C 15°  
D 10°

*Answer: D*

*Explanation:*

Given that,
We know that \( \cot(90\degree - A) = \tan A \)

Hence,

\[
\Rightarrow \cot(90\degree - 4\theta) = \cot(2\theta + 30\degree).
\]

\[
\Rightarrow 90\degree - 4\theta = 2\theta + 30\degree.
\]

\[
\Rightarrow 6\theta = 90\degree - 30\degree.
\]

\[
\Rightarrow \theta = 6 = 10\degree.
\]

**SSC CGL Previous Papers (DOWNLOAD PDF)**

Question 55

The following table indicates the number of students studying in three disciplines in five colleges:

<table>
<thead>
<tr>
<th>Disciplines</th>
<th>Colleges</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Science</td>
<td></td>
<td>300</td>
<td>350</td>
<td>275</td>
<td>400</td>
<td>275</td>
</tr>
<tr>
<td>Commerce</td>
<td></td>
<td>250</td>
<td>400</td>
<td>325</td>
<td>275</td>
<td>250</td>
</tr>
<tr>
<td>Economics</td>
<td></td>
<td>400</td>
<td>450</td>
<td>250</td>
<td>300</td>
<td>500</td>
</tr>
</tbody>
</table>

What percentage of total students are studying in the commerce stream in all five colleges together?

A 28%

B 30%

C 32%

D 33%

**Answer:** B

**Explanation:**

As per the given table,

Total number of student studying in all the five college =

\[
300 + 250 + 400 + 350 + 400 + 400 + 450 + 275 + 325 + 275 + 250 + 400 + 275 + 300 + 275 + 250 + 500
\]

\[
\Rightarrow \text{Total number of student studying in all the five college} = 5000
\]

Total number of student studying in all the commerce stream in all the five college = 1500

Hence the required percentage = \( \frac{1500}{5000} \times 100 = 30\% \)

Question 56

Two articles are sold for \( \text{₹} 10,005 \) each. On one, the seller gains 15% and on the other, he loses 13%. What is his overall gain or loss percent, correct to two decimal places?

A 1.42% gain

B 0.94% loss

C 0.94% gain

D 1.42% loss

**Answer:** B
Explanation:
As per the given question,
The sold price of the article = Rs. 10005
On the first article, gain = 15%
On the other article, losses = 13%
Let the cost price of the first article is \( x \) and other is \( y \)

\[
\text{Soldprice} - \text{Costprice} = 10005 - x
\]
\[
\Rightarrow 15 = \frac{x}{100} \times 100
\]
\[
\Rightarrow 15x = 10005 x 100 - x \times 100
\]
\[
\Rightarrow 115x = 10005 \times 100
\]
\[
\Rightarrow x = \frac{10005}{115} = 8700
\]

Hence, profit amount = 10005 - 8700 = 1305 Rs

Now,

\[
\text{Costprice} - \text{Soldprice} = x - 10005
\]
\[
\Rightarrow 13 = \frac{x}{100} \times 100
\]
\[
\Rightarrow 13x = 100x - 10005 \times 100
\]
\[
\Rightarrow 100x - 13x = 10005 \times 100
\]
\[
\Rightarrow 87x = 10005 \times 100
\]
\[
\Rightarrow x = \frac{10005}{87} = 11500 \text{ Rs.}
\]

Hence, loss amount = 11500 - 10005 = 1495 Rs.

So overall loss amount 1495 - 1305 = 190 Rs.

Hence the required percentage = 20020 \times 100 = 0.94\% \text{ loss}

Question 57
\( \triangle ABC \sim \triangle PQR \) and \( PQ = 6 \text{ cm}, QR = 8 \text{ cm} \) and \( PR = 10 \text{ cm} \). If \( \text{ar}(\triangle ABC) : \text{ar}(\triangle PQR) = 1 : 4 \), then \( AB \) is equal to:

A 2 cm
B 3 cm
C 4 cm
D 5 cm

Answer: C

Explanation:
Given that,
\( \triangle ABC \sim \triangle PQR \)
PQ = 6 cm, QR = 8 cm and PR = 10 cm
\( \text{ar}(\triangle ABC) : \text{ar}(\triangle PQR) = 1 : 4 \)
Now as per the theorem of similarity of triangle,

\[ \frac{\text{ar}(\triangle ABC)}{\text{ar}(\triangle PQR)} = \frac{AB^2}{PQ^2} = \frac{BC^2}{QR^2} = \frac{AC^2}{PR^2} \]

Now substituting the values,

\[ AB^2 = \frac{1}{4} \]
\[ PQ^2 = 4 \]

\( \Rightarrow AB = 2 \) cm

Question 58

A train without stoppage travels with an average speed of 65 km/h and with stoppage, it travels with an average speed of 52 km/h. For how many minutes does the train stop on an average per hour?

A 14
B 13
C 12
D 15

Answer: D

Explanation:
Let the total distance traveled by the train = \( d \)
And total time taken \( t = 1 \) hour

so, if train is not getting stop at any stoppage then average speed of the train, \( 65 = \frac{d}{1+t} \) km/hour

If train is getting stop at the stoppage for the time \( t_1 \)

Then average speed of the train \( 52 = \frac{d}{1+t_1} \) \( (ii) \)

from equation \((i)\) and \((ii)\)

\[ \frac{65}{1+t_1} = 52 \]
\[ \Rightarrow 52 = 1 \]
Question 59

Chords AB and CD of a circle, when produced, meet at a point P outside the circle. If AB = 6 cm, CD = 3 cm and PD = 5 cm, then PB is equal to:

A 2.744 cm
B 6.25 cm
C 5 cm
D 6 cm

Answer: A

Explanation:
Given that,

AB = 6 cm, CD = 3 cm and PD = 5 cm  \( PB = ? \)

We know that intersecting secant theorem says that, when two secant lines AB and CD intersect outside the circle at a point P,

then \( PA \times PB = PC \times PD \) \(-1\)

\( PA = PB+AB \) and \( PC = PD+CD \)

\( 1 \Rightarrow (PB+AB)(PB) = (PD+CD)(PD) \)

\( PB \times (PB + 6) = (5 + 3) \times 3 \)

\( PB^2 + 6PB = 8 \times 3 \)

\( PB^2 + 6PB - 24 = 0 \)

\( -6 \pm \sqrt{36 + 96} \)

\( PB = \frac{2}{2} \)

11.48 - 6 or \( PB = \frac{-6 - 11.48}{2} \)
Length cannot be negative.
Therefore, Length of PB = 2.744 cm.

**Question 60**
A is 40% more efficient than B and C is 20% less efficient than B. Working together, they can finish a task in 15 days. In how many days, will B alone complete 75% of the task?

A 48
B 44
C 36
D 32

**Answer: C**

**Explanation:**
Let B can finish 100% of work in X days.

Therefore B’s one day work = \( \frac{100}{X} \) %

A can finish 140% of work in x days,

Therefore A’s one day work = \( \frac{140}{X} \) %

C can finish 80% of work in x days,

Therefore, C’s one day work = \( \frac{80}{X} \) %

So, If A, B and C are working together, then there one day’s combine work = \( \frac{100}{X} + \frac{140}{X} + \frac{80}{X} \) %

together they can finish 100% of work = \( \frac{100}{X} + \frac{140}{X} + \frac{80}{X} \) % \times 15

\( \Rightarrow \frac{100}{X} + \frac{140}{X} + \frac{80}{X} \) % \times 15 = 100%

\( \Rightarrow x = \left( \frac{100}{100} + \frac{140}{100} + \frac{80}{100} \right) \times 15 \)

\( \Rightarrow x = 1 + 1.4 + 0.8 \times 15 \)

\( \Rightarrow x = 3.2 \times 15 \)

\( \Rightarrow x = 48.0 \) days

Hence, B alone can finish 75% work in = \( \frac{75}{100} \times 48 \) = 36 days.

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**Question 61**
The price of sugar is increased by 22%. A person wants to increase his expenditure by 12% only. By what percent should he decrease his consumption, nearest to one decimal place?

A 10%
B 8.2%
C 7.8%

**Answer:**

Let the original price of sugar be \( P \) and the original amount of sugar be \( S \).

After the price hike, the new price of sugar becomes \( P + 0.22P = 1.22P \).

Let the new amount of sugar be \( S' \).

Given that the new expenditure is 12% more than the original expenditure, we have:

\[ P \times S + 0.12 \times (P \times S) = 1.22P \times S' \]

\[ 1.12PS = 1.22PS' \]

\[ S' = \frac{1.12}{1.22}S \]

\[ S' = \frac{112}{122}S \]

\[ S' = \frac{56}{61}S \]

The consumption decreases by \( \frac{61 - 56}{61} \times 100\% \)

\[ = \frac{5}{61} \times 100\% \]

\[ \approx 8.2\% \]

So, the consumption should be decreased by approximately 8.2%.
Let the initial price of 1kg sugar is $x$ Rs.

As per the question, the price of the sugar is increased by $22\% = \frac{22}{100}x$

Hence, new price of 1kg sugar $= 100 + \frac{22}{100}x = 1.22x$ Rs.

Initial expenditure of the person is $= x$ Rs.

As per the condition, person increased his expenditure by $= 12 = \frac{12}{100}x$

Hence, the new expenditure amount of the person $= 100 + \frac{12}{100}x = 1.12x$ Rs.

Hence, the required percentage $= \frac{1.22x - 1.12x}{1.12x} \times 100$

$\Rightarrow 1.22x - 1.12x = 0.1x$

$\Rightarrow 0.1x \times 100 = 8.2\%$

So the consumption should be decreased by $8.2\%$

**Question 62**

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

A 36
B 16
C 62
D 14

**Answer: D**

**Explanation:**

Given that,

$$\sqrt{x} + \frac{1}{\sqrt{x}} = \sqrt{6} \quad \quad (i)$$

taking square of both side of equation (i)

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

$$\sqrt{x}^2 + \frac{1}{\sqrt{x}}^2 + 2\sqrt{x} \cdot \frac{1}{\sqrt{x}} = (\sqrt{6})^2$$

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

$$x + \frac{1}{x} = 4 \quad \quad (ii)$$

Now squaring of equation(ii)

$$x^2 + \frac{1}{x^2} + 2x = (4)^2$$

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

$$x^2 + \frac{1}{x^2} = 14$$
Question 63
An article is sold for ₹ 657.90 after successive discounts of 15% and 10%. What is the marked price of the article?

A ₹ 880
B ₹ 920
C ₹ 860
D ₹ 900

Answer: C

Explanation:
Let the marked price of the article = x Rs.
So, as per the question, there is two successive discounts of 15% and 10%

\[ x \times 85 \times 90 \]

Hence,
\[ \frac{x \times 85 \times 90}{100 \times 100} = 657.9 \]

\[ 657.9 \times 1000 \]

\[ x = 85 \times 9 \]

\[ 657.9 \times 1000 \]

\[ x = 85 \times 9 \]

\[ x = 860 \text{ Rs.} \]

SSC CGL Important Questions PDF

Question 64
The value of \( \sec^2 28^\circ - \cot^2 62^\circ + \sin^2 60^\circ + \cosec^2 30^\circ \) is equal to:

A \( \frac{19}{4} \)
B 3
C \( \frac{7}{2} \)
D \( \frac{23}{4} \)

Answer: D

Explanation:
\( \sec^2 28^\circ - \cot^2 62^\circ + \sin^2 60^\circ + \cosec^2 30^\circ \)

We know that \( \sec(90^\circ - A) = \cosec A, \cosec(90^\circ - A) = \sec A \) and \( \sin^2 A + \cos^2 A = 1 \)

Now, \( \sec^2 28^\circ - \cot^2 62^\circ + \sin^2 60^\circ + \cosec^2 30^\circ \)

\[ \Rightarrow \cosec^2(90^\circ - 28^\circ) - \cot^2 62^\circ + \sin^2 60^\circ + \sec^2(90^\circ - 30^\circ) \]

\[ \Rightarrow \cosec^2 62^\circ - \cot^2 62^\circ + \sin^2 60^\circ + \sec^2 60^\circ \]
The following table indicates the number of students studying in three disciplines in five colleges:

<table>
<thead>
<tr>
<th>Disciplines</th>
<th>Colleges</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A</td>
</tr>
<tr>
<td>Science</td>
<td>300</td>
</tr>
<tr>
<td>Commerce</td>
<td>250</td>
</tr>
<tr>
<td>Economics</td>
<td>400</td>
</tr>
</tbody>
</table>

What is the ratio of the total number of students studying in the science stream to that of studying in commerce stream in all five colleges taken together?

A 16:15
B 19:15
C 16:19
D 14:15

**Answer: A**

**Explanation:**
As per the given in the question,

- Total number of students studying in science stream in all five colleges = 300 + 350 + 275 + 400 + 275 = 1600
- Total number of students studying in commerce stream in all five colleges = 250 + 400 + 325 + 275 + 250 = 1500

Hence, the required ratio = \(\frac{1600}{1500} = \frac{16}{15}\)

**Question 66**

The radii of two circular faces of the frustum of a cone of height 21 cm are 3 cm and 2 cm respectively. What is the volume of the frustum of the cone in \(\text{cm}^3\) (\(\pi = \frac{22}{7}\))?  

A 154
Answer: B

Explanation:
As per the question,
It is given that the height of the frustum of the cube \( h = 21 \text{ cm} \)
The radius of the larger face of frustum of the cube \( R = 3 \text{ cm} \)
The radius of the smaller face of frustum of the cube \( r = 2 \text{ cm} \)
\[
\pi = \frac{22}{7}
\]
The volume of the frustum of the cube \( V = \frac{\pi h (R^2 + r^2 + R \times r)}{3} \)
Now substituting the value \( V = \frac{22 \times 21 (3^2 + 2^2 + 3 	imes 2)}{7 \times 3} \)
\[
\Rightarrow V = \frac{22 \times 21 (3^2 + 2^2 + 3 	imes 2)}{7 \times 3}
\]
\[
\Rightarrow V = 418 \text{ cm}^3
\]

**Question 67**
In \( \triangle ABC \), \( AD \) is a median and \( P \) is a point on \( AD \) such that \( AP : PD = 3 : 4 \). Then \( \text{ar}(\triangle APB) : \text{ar}(\triangle ABC) \) is equal to:

A  3 : 14
B  3 : 7
C  3 : 4
D  2 : 7

**Answer:** A

**Explanation:**
Given that,
In \( \triangle ABC \), \( AD \) is the median.
And \( P \) is a point on \( AD \) such that \( AP : PD = 3 : 4 \)
We know that if two triangle have the same height and the length of the base is different then ratio of their area will be equal to the ratio of the respective base.

In \( \triangle ABC \),
\[
\text{ar}(\triangle ABD) = \frac{\text{ar}(\triangle ABC)}{2}
\]
So, As per the area division rule of a triangle,

\[
\text{ar}(\triangle APB) \quad 3 \\
\Rightarrow \text{ar}(\triangle BPD) = 4
\]

So, \( \Rightarrow \text{ar}(\triangle APB) = 3 + 4 \)

\[
\Rightarrow \text{ar}(\triangle ABD) = 7
\]

Hence,

\[
\text{ar}(\triangle ABD) = \frac{3 \times \text{ar}(\triangle ABD)}{7}
\]

\[
\Rightarrow \text{ar}(\triangle APB) : \text{ar}(\triangle ABC) = 3 \times \text{ar}(\triangle ABD) = 14
\]

Question 68

In a circle with centre O, AB is the diameter and CD is a chord such that ABCD is a trapezium. If \( \angle BAC = 25^\circ \), then \( \angle CAD \) is equal to:

A 40°
B 25°
C 65°
D 45°

Answer: A

Explanation:

As per the question,

ABCD is a trapezium and \( \angle BAC = 25^\circ \)
As we know from the property of trapezium, \( AB \parallel CD \)

So, \( \angle BAC = \angle ACD = 25^\circ \)

We know from the circle theorem, \( \angle ACB = \angle BAC \)

Now, from the cyclic quadrilateral rule,
\[
\Rightarrow \angle DAB + \angle DCB = 180^\circ \\
\Rightarrow \angle DAC + \angle CAB + 90^\circ + 25^\circ = 180^\circ \\
\Rightarrow \angle DAC + 25^\circ = 180^\circ - 90^\circ \\
\Rightarrow \angle DAC = 40^\circ
\]

**Question 69**

If \( \cot \theta = \frac{3}{4} \), then \( \sin \theta + \cos \theta - \tan \theta \) is equal to:

A \( \frac{1}{15} \)  
B \( \frac{1}{20} \)  
C \( \frac{1}{20} \)  
D \( \frac{2}{15} \)

**Answer: A**

**Explanation:**

Given that,
\[ \cot \theta = \frac{3}{4} \]
Then \( \tan \theta = \frac{4}{3} \)

We know for the right angled triangle,
\[ \text{Hypotenuse}^2 = \text{Base}^2 + \text{Perpendicular}^2 \]
So, \( \text{Hypotenuse} = \sqrt{3^2 + 4^2} \)
\[ = \sqrt{25} \]
\[ = 5 \]

Hence, \( \sin \theta = \frac{4}{5} \) and \( \cos \theta = \frac{3}{5} \) and
\[
\Rightarrow \sin \theta + \cos \theta - \tan \theta \\
\Rightarrow \frac{4}{5} + \frac{3}{5} - \frac{4}{3} \\
\Rightarrow \frac{4 \times 3}{15} + \frac{3 \times 5}{15} - \frac{4 \times 5}{15} \\
\Rightarrow \frac{12 + 15 - 20}{15} \\
\Rightarrow \frac{7}{15} \\
\Rightarrow 5 \times 3 \\
\Rightarrow 15
\]

**General Science Notes for SSC CGL**

**Question 70**

If \( a + b = 5 \) and \( ab = 3 \), then \( (a^3 + b^3) \) is equal to:

A \( 80 \)
Answer: A

Explanation:
Given that,
\[a + b = 5 \text{ and } ab = 3\]
Now, \[a + b = 5\]
squaring both side,
\[\Rightarrow (a + b)^2 = 25\]
\[\Rightarrow (a + b)^2 = a^2 + b^2 + 2ab\]
\[\Rightarrow (a + b)^2 = a^2 + b^2 + 2ab\]
\[\Rightarrow (a^3 + b^3) = (a+b)(a^2+b^2-ab)\]
\[\Rightarrow (a^3 + b^3) = (5)(19-3)\]
\[\Rightarrow (a^3 + b^3) = 80\]

Question 71

The value of: \(28 + (5.2 \div 1.3 \times 2) - 6 \times 3 \div 8 + 2\)

A 4.55  
B 6.45  
C 35.75  
D 8.45

Answer: C

Explanation:
\[28 + (5.2 \div 1.3 \times 2) - 6 \times 3 \div 8 + 2\]
As per the number system rule,
\[28 + (4 \times 2) - 6 \times 3 \div 8 + 2\]
\[28 + 8 - 4.5 + 2\]
\[32.5 - 4.5 = 28\]

Question 72

What is the least value of \(x\) such that \(517x324\) is divisible by 12?

A 3  
B 2  
C 1  
D 0

Answer: B

Explanation:
Given that,
Number \(517x324\) is divisible by \(12\)
So, the multiple of $12=3\times 4$

The mentioned number will be divisible by 12 if it is individually divisible by $3$ and $4$.

**Divisibility by $4$** - Any number will be divisible by $4$ if last two digit of that number will be divisible by $4$.

so, in this case last two digits are $24$, which is divisible by $4$.

Hence, for any value of $x$ the mentioned number will be divisible by $4$.

**Divisibility by $3$** - Any number will be divisible by $3$, if the sum of the digit of that number will be divisible by $3$.

But as per question we have to find the minimum value of $x$, so that i can be divisible.

Hence, $5+1+7+x+3+2+4=22+x$

the nearest value of $22+x$ which is divisible by $3=24$

So $22+x=24$

$x=2$

---

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</tbody>
</table>

**Question 73**

What percentage of students in college B is studying in the science stream, (correct to one decimal place)?

A 29.4%
B 29.2%
C 29.6%
D 29.8%

**Answer: B**

**Explanation:**
From the above table,

- total number of student in the college B = $350+400+450 = 1200$
- total number of student in the science stream = $350$

Hence, the required percentage $\frac{350 \times 100}{1200} = 29.16\%$

Hence, approximately $29.2\%$ student studying in the science stream.

**Question 74**

If a pie-chart is drawn representing the number of students in all five colleges, what is the central angle (correct to the nearest whole number) of the sector representing the students of college B?

A $86^\circ$
B $82^\circ$
C $80^\circ$
D $84^\circ$

**Answer: A**

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From the above table,
The number of students are available in college A $$= 950$$
The number of students are available in college B $$= 1200$$
The number of students are available in college C $$= 850$$
The number of students are available in college D $$= 975$$
The number of students are available in college E $$= 1025$$
Hence, total number of students are available in the class $$= 5000$$
so percentage of area occupy by college B $$\dfrac{1200 \times 100}{5000} = 24\%$$
which occupy 24% of the area in the pie graph.

Hence angle $$= \dfrac{24 \times 360}{100} = 86.6^\circ$$
So, it will be approximately $$86^\circ$$

Instructions
For the following questions answer them individually

Question 75
The average marks of 45 students was found to be 66. If the marks of two students were incorrectly entered as 28 and 64 instead of 82 and 46 respectively, then what is the correct average?

A 67.2
B 66.8
C 66.4
D 66.6

Answer: B

Explanation:
Let the marks of the students are $$X_1, X_2, X_3, \ldots, X_{45}$$
It is given that the marks of the two student which entered incorrectly that is 28 and 64
Let$$X_1 = 28$$ and $$X_2 = 64$$
Average marks of student when wrongly entered $$= \dfrac{28 + 64 + X_3 + \ldots + X_{45}}{45} = 66$$
$$28 + 64 + X_3 + \ldots + X_{45} = 66 \times 45$$
$$X_3 + \ldots + X_{45} = 66 \times 45 - 28 - 64$$

It is given that correct marks are $$82$$ and $$46$$
After entering correct marks, new average will be $$= \dfrac{82 + 46 + X_3 + \ldots + X_{45}}{45}$$
From equation (i) and (ii)
$$= \dfrac{3006}{45} = 66.8$$
Instructions
For the following questions answer them individually

Question 76
Select the correct active form of the given sentence.
We will all be greatly benefitted by this scheme.

A  This scheme is going to greatly benefit us all.
B  This scheme would greatly benefit we all.
C  This scheme has greatly benefitted us all.
D  This scheme will greatly benefit us all.

Answer: D

Question 77
Select the most appropriate meaning of the underlined idiom in the given sentence.
Due to increased number of lay offs in the industry, the sword of Damocles is always hanging over the employees.

A  strict rules and regulations
B  an ill omen of death
C  threat of physical harm
D  a constant threat

Answer: D

Question 78
Given below are four jumbled sentences. Select the option that gives their correct order.
A. The brain is active too during sleep, sending messages for the heart to beat regularly.
B. However, the body utilizes the sleeping time effectively.
C. We spend about one third of our time sleeping.
D. It produces energy and releases hormones for repair and growth during the night.

A  ABDC
B  CABD
C  CBDA
D  BADC

Answer: C

Question 79
Select the word which means the same as the group of words given.
A fictitious name used by an author
Question 80
In the sentence identify the segment which contains the grammatical error.
Ten kilometres are a long distance to cover on foot for a child.

A to cover on foot
B a long distance
C Ten kilometres are
D for a child

Answer: C

Question 81
Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select No improvement.
Knowing the particular things that motivate each person helps you add power to their motivation.

A helps you add power
B No improvement
C help you adding power
D help you to add power

Answer: A

Question 82
Select the most appropriate synonym of the given word.
PERPLEX

A deceive
B complex
C bewilder
D surprise

Answer: C
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:**
Leaving his car with the valet, he (1)______ the hotel and joined the large crowd milling (2)______ He found a badge waiting for him (3)______ the receptionist’s table and took his (4)______ in the rear of the hall. When the place was (5)______, the moderator welcomed the crowd.

**Question 83**
Select the most appropriate option to fill in blank No.1.

A entered  
B admitted  
C accessed  
D invaded  
*Answer:* A

**Question 84**
Select the most appropriate option to fill in blank No.2.

A about  
B aside  
C into  
D out  
*Answer:* A

**Question 85**
Select the most appropriate option to fill in blank No.3.

A over  
B by  
C in  
D at  
*Answer:* D

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**Question 86**
Select the most appropriate option to fill in blank No.4.

A lounge  
B couch  
C stand  
*Answer:* C
Question 87
Select the most appropriate option to fill in blank No.5.

A empty
B filled
C completed
D stuffed

Answer: B

Instructions
For the following questions answer them individually

Question 88
In the sentence, identify the segment which contains the grammatical error.
There isn't many rice left in the house so we must replenish our stock soon.

A There isn't many rice
B left in the house
C our stock soon
D so we must replenish

Answer: A

Question 89
Select the correctly spelt word.

A tuition
B tution
C tuution
D tuition

Answer: D

Question 90
Select the most appropriate antonym of the given word.
MEAGRE

A plentiful
B scanty
C inadequate

Answer: B
Question 91
Select the most appropriate meaning of the underlined idiom in the given sentence.
True friends stay by our side through thick and thin.

A under all circumstances  
B in difficult times  
C in happy moments  
D in different weathers 

Answer: A

Question 92
Select the most appropriate synonym of the given word.
DEFER

A dictate  
B dread  
C delay  
D despair

Answer: C

Question 93
Select the correct passive form of the given sentence.
The sailors had never encountered such a rough sea.

A Such a rough sea had never been encountered by the sailors.  
B Such a rough sea is never encountered by the sailors.  
C Such a rough sea has never been encountered by the sailors.  
D Such a rough sea was never encountered by the sailors.

Answer: A

Question 94
Select the most appropriate option to fill in the blank.
She got a lucrative job of a translator because she was _____ in French.

A deficient  
B sufficient  
C proficient

Answer: C
Question 95
Select the most appropriate option to fill in the blank.
The committee reached ______ decision regarding the appointment of the chairman.

A  a compatible  
B  a unanimous  
C  an agreeable  
D  an exemplary  

Answer: B

Question 96
Select the word which means the same as the group of words given.
One who is a great lover of books

A  hemophile  
B  pedophile  
C  bibliophile  
D  xenophile  

Answer: C

Question 97
Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select No improvement.
Your coming home to dinner on time _______.

A  should be a rule rather being the exception  
B  No improvement  
C  shall be a rule rather than an exception  
D  should be the rule rather than the exception  

Answer: D

Question 98
Given below are four jumbled sentences. Select the option that gives their correct order.
A. But they faced grave danger if they tried to criticize these decisions.
B. The nationalists now began to openly criticize the policies of the British.
C. The freedom movement changed this situation.
D. Under colonial rule, the people had lived in fear of the British government and did not agree with many of the decisions that they took.

A. But they faced grave danger if they tried to criticize these decisions.
B. The nationalists now began to openly criticize the policies of the British.
C. The freedom movement changed this situation.
D. Under colonial rule, the people had lived in fear of the British government and did not agree with many of the decisions that they took.

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Question 99
Select the correctly spelt word.

A previllage
B peivailege
C privilege
D previledge
Answer: C

Question 100
Select the most appropriate antonym of the given word.
ARROGANCE

A superiority
B sweetness
C vanity
D humility
Answer: D

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