Instructions
For the following questions answer them individually

Question 1
If \(\frac{4}{5}\)th of a number exceeds its \(\frac{3}{4}\)th by 8. then the number is :

A 130
B 120
C 160
D 150

Answer: C

Explanation:
Let the number be \(x\)

According to ques,
\[
\frac{4x}{5} - \frac{3x}{4} = 8
\]
\[
\Rightarrow \frac{16x - 15x}{20} = 8
\]
\[
\Rightarrow x = 8 \times 20 = 160
\]
\Rightarrow Ans - (C)

Question 2
The rate of discount being given on a shirt, where selling price is Rs. 546 after deducting a discount of Rs. 109 on its marked price, is

A 14%
B 18%
C 15%
D 16%

Answer: D

Explanation:
Let Marked price = Rs. \(x\)

Selling price = Rs. 546

\[
\Rightarrow \text{Discount} = \text{MP} - \text{SP} = \text{Rs. 109}
\]
\[
\Rightarrow x - 546 = 109
\]
\[
\Rightarrow x = 546 + 109 = \text{Rs. 655}
\]
\[
\therefore \text{Discount} = \frac{109}{655} \times 100
\]
\[
= \frac{2180}{131} = 16.64 \approx 16\%
\]
\Rightarrow Ans - (D)

Question 3
If the ratio of two numbers is 1:5 and their product is 320, then the difference between the squares of these two numbers is
A 1024
B 1256
C 1536
D 1435

Answer: C

Explanation:
Let the two numbers be \( x \) and \( 5x \):

Product = \( x \times (5x) = 320 \)

\[
\Rightarrow x^2 = \frac{320}{5} = 64
\]

\[
\therefore \text{Difference between the squares of these two numbers}
\]

\[
= (5x)^2 - (x)^2 = 25x^2 - x^2 = 24x^2
\]

\[
= 24 \times 64 = 1536
\]

\[
\Rightarrow \text{Ans} - (C)
\]

Question 4

Numbers of boys and girls are ‘x’ and ‘y’ respectively; average ages of a girl and a boy are ‘a’ years and ‘b’ years respectively. The average age (in years) of all boys and girls.

A \( \frac{x+y}{bx+ay} \)
B \( \frac{bx+ay}{x+y} \)
C \( \frac{ax+by}{x+y} \)
D \( \frac{x+b}{ax+by} \)

Answer: B

Explanation:
Number of boys = \( x \)
Average age of boys = \( b \)

\[
\Rightarrow \text{Total age of boys} = bx
\]

Similarly, total age of girls = \( ay \)

\[
\therefore \text{Average age of all boys and girls} = \frac{\text{Total age of boys and girls}}{\text{Number of boys and girls}}
\]

\[
= \frac{bx+ay}{x+y}
\]

\[
\Rightarrow \text{Ans} - (B)
\]

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Question 5

A man bought 30 defective machines for Rs. 1000. He repaired and sold them @ Rs. 300 per machine. He got profit of Rs. 150 per machine. How much did he spend on repairs ?(in Rupees)
A 5500
B 4500
C 3500
D 2500

Answer: C

Explanation:
Amount spent on buying 30 defective machines = Rs. 1000

Let amount spent on repairs = Rs. 100x

=> Total CP = Rs. (100x + 1000)

Selling price per machine = Rs. 300

=> Total SP = 30 * 300 = Rs. 9000

Profit per machine = Rs. 150

=> Total profit = 30 * 150 = Rs. 4500

Also, Profit = SP - CP

=> 4500 - (100x + 1000) = 9000

=> 100x + 1000 = 9000 - 4500

=> 100x + 1000 = 4500

=> 100x = 4500 - 1000 = 3500

=> x = \frac{3500}{100} = 35

∴ Amount spent on repairs = 100 * 35 = Rs. 3500

=> Ans - (C)

Question 6

x is 5 times longer than y. The percentage by which y is less than x is:

A 50%
B 40%
C 80%
D 70%

Answer: C

Explanation:
It is given that x is 5 times longer than y, => x = 5y

=> \frac{x}{y} = 5

Let x = 5 and y = 1

=> Percentage by which y is less than x = \frac{x-y}{x} * 100

= \frac{5-1}{5} * 100

= 4 * 20 = 80%

=> Ans - (C)
Question 7

A motor cycle gives an average of 45 km per litre. If the cost of petrol is Rs. 20/litre. The amount required to complete a journey of 540 km is, (in Rupees)

A  120  
B  360  
C  200  
D  240  

Answer: D

Explanation:
The bike runs for 45 km in 1 litre of petrol
Cost of petrol = Rs. 20/litre
Thus, petrol required for covering 540 km = \( \frac{540}{45} = 12 \) litres
\( \therefore \) Amount required to complete a journey of 540 km = \( 12 \times 20 \) = Rs. 240
\( \Rightarrow \) Ans - (D)

Question 8

A sum of money amounts to Rs. 6655 at the rate of 10% compounded annually for 3 years. The sum of money is

A  Rs.5000  
B  Rs.5500  
C  Rs.6000  
D  Rs.6100  

Answer: A

Explanation:
Let the sum of money = Rs.1000\( x \)
Rate of interest under compound interest = 10% and time = 3 years

Amount = \( P(1 + \frac{R}{100})^T = 6655 \)

\( \Rightarrow 1000x(1 + \frac{10}{100})^3 = 6655 \)

\( \Rightarrow 1000x(\frac{11}{10})^3 = 6655 \)

\( \Rightarrow 1000x \times \frac{1331}{1000} = 6655 \)

\( \Rightarrow 1331x = 6655 \)

\( \Rightarrow x = \frac{6655}{1331} = 5 \)

\( \therefore \) Sum = \( 1000 \times 5 = Rs.5000 \)

\( \Rightarrow \) Ans - (A)
Question 9
If \(x^2 - 4x + 1 = 0\), then the value of \(\frac{x^3 + 1}{x^3}\) is

A 48
B 52
C 55
D 58

Answer: B

Explanation:
Given: \(x^2 - 4x + 1 = 0\)
\(\Rightarrow x^2 + 1 = 4x\)
\(\Rightarrow \frac{x^3 + 1}{x} = 4\) \(\cdots \text{(i)}\)
Cubing both sides, we get:
\(\Rightarrow (x + \frac{1}{x})^3 = (4)^3\)
\(\Rightarrow x^3 + 1 + 3x . \frac{1}{x} (x + \frac{1}{x}) = 64\)
Substituting value from equation \(\text{(i)}\)
\(\Rightarrow (x^3 + 1) + 3(4) = 64\)
\(\Rightarrow \frac{x^3 + 1}{x} = 64 - 12 = 52\)
\(\Rightarrow \text{Ans - (B)}\)

Question 10
If \((a - 2) + (a+2) = -1\) then, the value of \((a - 2)^2 + (a+2)^3 = -1\) is

A 7
B 11
C 23
D 27

Answer: A

Question 11
If \(\sqrt{1 + \frac{x}{144}} = \frac{13}{12}\) then \(x\) equals to

A 1
B 13
C 27
Answer: D

Explanation:
Expression: \( \sqrt{1 + 144} = \frac{13}{12} \)

Squaring both sides,
\[ (1 + 144) = \left(\frac{13}{12}\right)^2 \]
\[ 144 + x = 169 \]
\[ x = 169 - 144 = 25 \]

=> Ans - (D)

Question 12
If 'O' is the incentre of the \( \triangle PQR \). If \( \angle POR = 115^\circ \), then value of \( \angle PQR \) is

A 40°
B 65°
C 50°
D 25°

Answer: C

Explanation:
Given: O is the incentre of \( \triangle PQR \) and \( \angle POR = 115^\circ \)

To find: \( \angle PQR = \theta = ? \)

Incentre of a triangle = \( 90^\circ + \frac{\theta}{2} \)

\[ \Rightarrow 115^\circ = 90^\circ + \frac{\theta}{2} \]
\[ \Rightarrow \frac{\theta}{2} = 115^\circ - 90^\circ = 25^\circ \]
\[ \Rightarrow \theta = 25^\circ \times 2 = 50^\circ \]

=> Ans - (C)

Question 13
The inradius of triangle is 4 cm and its area is 34 sq. cm. the perimeter of the triangle is

A 8.5 cm
B 17 cm
C 34 cm
D 20 cm
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Question 14

If \( \tan \theta + \cot \theta = 2 \) then the value of \( \tan^2 \theta + \cot^2 \theta \) is

A \( 2n \)

B \( \frac{2n}{2} \)

C \( 2^\frac{1}{2} \)

D \( 2 \)

Answer: D

Explanation:

Given : \( \tan \theta + \cot \theta = 2 \)

Squaring both sides

\( \Rightarrow (\tan \theta + \cot \theta)^2 = (2)^2 \)

\( \Rightarrow \tan^2 \theta + \cot^2 \theta + 2\tan \theta \cdot \cot \theta = 4 \)

\( \therefore (\tan \theta \cdot \cot \theta = 1) \)

\( \Rightarrow \tan^2 \theta + \cot^2 \theta = 4 - 2 = 2 \)

Again squaring both sides, we get : \( \tan^4 \theta + \cot^4 \theta = 2 \)

Thus, \( \tan^4 \theta + \cot^4 \theta = 2 \)

\( \Rightarrow \text{Ans} - (D) \)

Question 15

A certain number of men can do a piece of work in 60 days. If there were 6 men more, the work can be finished 20 days earlier. The number of men working is

A \( 6 \)

B \( 12 \)

C \( 18 \)

D \( 24 \)

Answer: B
Explanation:
Let the number of men initially working be \( x \) who could finish the work in 60 days.

Now, \((x + 6)\) men can finish the work in 60 - 20 = 40 days.

\[
\Rightarrow x \times 60 = (x + 6) \times 40 \\
\Rightarrow 3x = 2x + 12 \\
\Rightarrow 3x - 2x = x = 12
\]

\( \therefore \) The number of men working = 12

\( \Rightarrow \) Ans - (B)

Question 16
If \( a^2 = b + c, b^2 = c + a, c^2 = a + b \), then the value of \( 3\left(\frac{1}{a+1} + \frac{1}{b+1} + \frac{1}{c+1}\right) \)

A 1

B \( \frac{1}{3} \)

C 3

D 4

Answer: C

Explanation:
Given: \( a^2 = b + c \)
Adding \( 'a' \) on both sides
\[
\Rightarrow a^2 + a = a + b + c \\
\Rightarrow a(a + 1) = a + b + c \\
\Rightarrow \frac{1}{a+1} = \frac{a}{a+b+c} \quad \text{(i)}
\]

Similarly, \( \frac{1}{b+1} = \frac{b}{a+b+c} \quad \text{(ii)} \)
and \( \frac{1}{c+1} = \frac{c}{a+b+c} \quad \text{(iii)} \)

To find : \( 3\left(\frac{1}{a+1} + \frac{1}{b+1} + \frac{1}{c+1}\right) \)
Substituting values from equations (i),(ii) and (iii)
\[
= 3\left(\frac{a}{a+b+c} + \frac{b}{a+b+c} + \frac{c}{a+b+c}\right)
= 3\left(\frac{a+b+c}{a+b+c}\right) = 3
\]
\( \Rightarrow \) Ans - (C)

Question 17
The area of a triangle ABC is 10.8 cm\(^2\). If CP = PB and 2AQ = QB then the area of the triangle APQ is

A 3.6cm\(^2\)

B 0.9cm\(^2\)

C 2.7cm\(^2\)

D 1.8cm\(^2\)
Question 18
ABCD is a trapezium in which AD||BC and AB = DC = 10 m. then the distance of AD from BC is

![Diagram of a trapezium with AD parallel to BC and AD = 10 m, angle at D is 45°.]

A) $10\sqrt{2}$ m 
B) $4\sqrt{2}$ m 
C) $5\sqrt{2}$ m 
D) $6\sqrt{2}$ m

Answer: C

Explanation:
Given: DC = 10 m and $\angle DCE = 45^\circ$
DE is the distance between AD and BC
To find: DE = ?

Solution: In $\triangle DEC$

$\sin(45^\circ) = \frac{DE}{DC}$

$\frac{1}{\sqrt{2}} = \frac{DE}{10}$

$DE = \frac{10}{\sqrt{2}}$

$DE = 5\sqrt{2}$ m

Answer: (C)

Question 19
From the top of a building 60 metre high, the angle of depression of the top and bottom of a tower are observed to be 30° and 60°. The height of the tower in metre is

A) 40 
B) 45 
C) 50 
D) 55

Answer: A
Given : \( AD = 60 \text{ m} \)
To find : Height of tower = \( CE = ? \)

Solution : By symmetry \( BD = CE \) and \( BC = DE \)

In \( \triangle ADE \),

\[
\Rightarrow tan(\angle AED) = \frac{AD}{DE} \\
\Rightarrow tan(60^\circ) = \frac{60}{DE} \\
\Rightarrow \sqrt{3} = \frac{60}{DE} \\
\Rightarrow DE = \frac{60}{\sqrt{3}} = 20\sqrt{3} \text{ m} \\
\]

Thus, \( BC = DE = 20\sqrt{3} \text{ cm} \)

In \( \triangle ABC \),

\[
\Rightarrow tan(\angle ACB) = \frac{AB}{BC} \\
\Rightarrow tan(30^\circ) = \frac{AB}{20\sqrt{3}} \\
\Rightarrow \frac{1}{\sqrt{3}} = \frac{AB}{20\sqrt{3}} \\
\Rightarrow AB = 20 \text{ m} \\
\rightarrow CE = BD = AD - AB = 60 - 20 = 40 \text{ m} \\
\Rightarrow \text{Ans - (A)}
\]

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Question 20
If a circle of radius 12 cm is divided into two equal parts by one concentric circle, then radius of inner circle is

A 6 cm 
B 4 cm 
C \( 6\sqrt{2} \text{ cm} \) 
D \( 4\sqrt{2} \text{ cm} \)

Answer: C

Explanation:
Radius of circle = \( r = 12 \text{ cm} \)
Area of circle = $\pi r^2$

$= \pi (12)^2 = 144\pi$

If circle is divided into two parts, thus area of inner circle = $\frac{144\pi}{2} = 72\pi$

Let radius of inner circle = $r_1$ cm

$\Rightarrow \pi (r_1)^2 = 72\pi$

$\Rightarrow r_1 = \sqrt{72} = 6\sqrt{2}$ cm

$\Rightarrow$ Ans - (C)

Question 21

If $\cos x = \sin y$ and $\cot(x - 40^\circ) = \tan(50^\circ - y)$, then the value of $x$ and $y$ are:

A $x = 70^\circ, y = 20^\circ$

B $x = 75^\circ, y = 15^\circ$

C $x = 85^\circ, y = 5^\circ$

D $x = 80^\circ, y = 10^\circ$

Answer: C

Explanation:

Given: $\cos x = \sin y$

$\Rightarrow \sin(90^\circ - x) = \sin y$

$\Rightarrow (90^\circ - x) = y$

$\Rightarrow x + y = 90^\circ$ ...(i)

Also, $\cot(x - 40^\circ) = \tan(50^\circ - y)$

$\Rightarrow \cot(x - 40^\circ) = \tan[90^\circ - (40^\circ + y)]$

Using, $\tan(90^\circ - \theta) = \cot\theta$

$\Rightarrow \cot(x - 40^\circ) = \cot(40^\circ + y)$

$\Rightarrow x - 40^\circ = 40^\circ + y$

$\Rightarrow x - y = 80^\circ$ ...(ii)

Adding equations (i) and (ii)$\Rightarrow 2x = 80^\circ + 90^\circ = 170^\circ$

$\Rightarrow x = \frac{170^\circ}{2} = 85^\circ$

and $y = 90^\circ - 85^\circ = 5^\circ$

$\Rightarrow$ Ans - (C)

Instructions

The bar graph shows the number of males and females (in crores) in India during 1951-1991. Read the graph and answer the following questions.
Question 22
What was the approximate percentage of female population in India during 1991?

A 48.23
B 48.02
C 48.03
D 48.33

Answer: A

Explanation:
Female population in 1991 (in crores) = 41
Total population in 1991 (in crores) = 44 + 41 = 85
=> Required % = \(\frac{41}{85} \times 100\)
= \(\frac{820}{17}\) = 48.23%
=> Ans - (A)

Question 23
What was the approximate number of males in India in 1971 per thousands females

A 913
B 1075
C 1077
D 1175

Answer: C

Explanation:
Males in Indian in 1971 = 28,00,00,000
Females in Indian in 1971 = 26,00,00,000
=> Approximate number of males in India in 1971 per thousands females = \(\frac{280000}{260000}\)
= 1.0769 \times 1000 \approx 1077
Question 24
What is the ratio of the number of females in India in 1961 per thousand males to the number of males in India in 1991 per thousand females?

A 861:1012  
B 1077:943  
C 1073:913  
D 913:1073

Answer: A

Explanation:
Number of females in India in 1961 per thousand males = \( \frac{21 \times 1000}{23} \)
Number of males in India in 1991 per thousand females = \( \frac{44 \times 1000}{41} \)

\[ \Rightarrow \text{Required ratio} = \frac{21 \times 1000}{23} : \frac{44 \times 1000}{41} \]
\[ = 21 \times 41 : 44 \times 23 \]
\[ = 861 : 1012 \]
\[ \Rightarrow \text{Ans - (A)} \]

Question 25
Assuming that the rate of increase in the total population in India during 1991-2001 remains the same as that was during the period 1981-1991, estimate the total population in India in 2001.

A 105.62 crores  
B 106.25 crores  
C 106.52 crores  
D 105.26 crores

Answer: B

Explanation:
Total population in 1981 = 35 + 33 = 68
Total population in 1991 = 44 + 41 = 85
\% increase in population = \( \frac{85 - 68}{68} \times 100 \)
\[ = \frac{100}{4} = 25\% \]
\; \; \; \; \; \; \; \; \; \; \; \; \therefore \; \text{Total population in 2001} = 85 \times 1.25 \]
\[ = 85 \times 1.25 = 106.25 \text{ crores} \]
\[ \Rightarrow \text{Ans - (B)} \]
Question 26
Select the related word/letters/numbers from the given alternatives:
Preamble : Constitution :: ? : ?

A  Word : Dictionary
B  Contents : Magazine
C  Explanation : Poetry
D  Preface : Book

Answer: D

Explanation:
The preamble is the introductory part of constitution, similar to a preface of a book.
=> Ans - (D)

Question 27
Select the related word/letters/numbers from the given alternatives:
EFG : VUT :: KLM : ?

A  KJH
B  PON
C  ZXY
D  FDC

Answer: B

Explanation:
Expression = EFG : VUT :: KLM : ?
The pattern followed is that in the first terms, three consecutive alphabets are written, and the 2nd term, three consecutive alphabets are written in reverse order.
Eg = E (+1 letter) = F (+1 letter) = G
and V (-1 letter) = U (-1 letter) = T
Similarly, K (+1 letter) = L (+1 letter) = M
Thus, P (-1 letter) = O (-1 letter) = N
=> Ans - (B)

Question 28
Select the related word/letters/numbers from the given alternatives:
85 : 42 :: 139 : ?

A  68
B  69
C  70
Answer: B

Explanation:
Expression = 85 : 42 :: 139 : ?
The pattern followed is = \(2n + 1 : n\)
Eg = \(2(42) + 1 : 42 = 85 : 42\)
Similarly, \(2n + 1 = 139\)
=> \(2n = 139 - 1 = 138\)
=> \(n = \frac{138}{2} = 69\)
=> Ans - (B)

Question 29
For the following questions
Find the odd word/letters/number from the given alternatives.

A Geometry
B Trigonometry
C Algebra
D Mathematics

Answer: D

Explanation:
Geometry, Trigonometry and Algebra are all branches of Mathematics, hence it is the odd one out.
=> Ans - (D)

Question 30
For the following questions
Find the odd word/letters/number from the given alternatives.

A BDGK
B JLOS
C NPSW
D MORU

Answer: D

Explanation:
(A) : B (+2 letters) = D (+3 letters) = G (+4 letters) = K
(B) : J (+2 letters) = L (+3 letters) = O (+4 letters) = S
(C) : N (+2 letters) = P (+3 letters) = S (+4 letters) = W
(D) : M (+2 letters) = O (+3 letters) = R (+3 letters) = U
=> Ans - (D)
Question 31
For the following questions
Find the odd word/letters/number from the given alternatives.

A 64
B 125
C 225
D 216

Answer: C

Explanation:
64 = 4^3
125 = 5^3
225 = 15^2
216 = 6^3

225 is not a perfect cube, hence it is the odd one.
=> Ans - (C)

Question 32
If the given words are arranged according to English dictionary, which word will be in third place?

A KNOW
B KNACK
C KNIT
D KNOB

Answer: D

Explanation:
As per the English dictionary,
= Knack -> Knit -> Knob -> Know
Thus, third word is 'Knob'.
=> Ans - (D)

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Question 33
A series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.
ELFA, GLHA, ILJA, ?, MLNA

A OLPA
B KLMA
C LLMA
D KLLA
Answer: D

Explanation:
Expression : ELFA, GLHA, ILJA, ?, MLNA
The pattern is that in each term, the second and last letters are constant which are 'L' and 'A' respectively. The other two letters, i.e., first and third are consecutive letters of English alphabetical series.
Thus, letters after IJ and before MN = KL
=> Missing term = KLLA
=> Ans - (D)

Question 34
A series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.
5, 11, 17, 25, 33, 43, ?

A 49
B 51
C 52
D 53

Answer: D

Explanation:
Consecutive even numbers are added to every 2 terms.
5 + 6 = 11
11 + 6 = 17
17 + 8 = 25
25 + 8 = 33
33 + 10 = 43
43 + 10 = 53
=> Ans - (D)

Question 35
Pointing towards a photo, Rakesh said, "She is the daughter of the only son of my grandfather." How is the girl related to Rakesh?

A Sister
B Daughter
C Grand Daughter
D Cousin

Answer: A

Explanation:
Only son of Rakesh's grandfather = Rakesh's father
Now, the girl is the daughter of Rakesh's father, => Rakesh and the girl are siblings.
Thus, She is Rakesh's sister.
=> Ans - (A)
Question 36
A is mother of B, C is son of A, D is brother of E, E is daughter of B. Who is the grandmother of E?

A A
B B
C C
D D

Answer: A

Explanation:
Note :- The second and third statements are redundant.
From first and last statements, we get:
A is mother of B and E is daughter of B, => E is granddaughter of A.
Thus, A is grandmother of E.
=> Ans - (A)

Question 37
From the given alternative words, select the word which cannot be formed using the letters of the given word:
COURAGEOUS

A COURSE
B GRACE
C SECURE
D ARGUE

Answer: C

Explanation:
The word COURAGEOUS does not contain 2 E's, and thus the word 'Secure' cannot be formed.
=> Ans - (C)

Question 38
If THEN is written as RLBS, then how may CASE be written in that code?

A AEPJ
B APEP
C EPAP
D PAEJ

Answer: A

Explanation:
THEN is written as RLBS
The pattern followed is:
Similarly, for CASE:

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<thead>
<tr>
<th>C</th>
<th>A</th>
<th>S</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>-2</td>
<td>+4</td>
<td>-3</td>
<td>+5</td>
</tr>
<tr>
<td>A</td>
<td>E</td>
<td>P</td>
<td>J</td>
</tr>
</tbody>
</table>

=> Ans - (A)

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**Question 39**

If ‘*’ means subtraction, ‘÷’ means division, ‘□’ means addition and ‘%’ means multiplication, then find the value of: 13 □ 3 * 6 % 8 ÷ 4 □ 14 = ?

A 18  
B 14  
C 12  
D 8

Answer: A

Explanation:
Expression: 13 □ 3 * 6 % 8 ÷ 4 □ 14 = ?

\[ \equiv 13 + 3 - 6 \times 8 \div 4 + 14 \]

\[ = 16 - 12 + 14 = 18 \]

=> Ans - (A)

**Question 40**

Some equations are solved on the basis of certain system. Find out the correct answer for the unsolved equation on that basis.

If 3*2*8*4 = 632, 2*4*4*4 = 816 then 3*3*5*1 = ?

A 95  
B 45  
C 315  
D 184

Answer: A

Explanation:
The product of the first two and the last two numbers is concatenated.

Eg: 3*2*8*4 = 6 and 32 = 632
and 2*4*4*4 = 8 and 16 = 816
Similarly, 3*3*5*1 = 9 and 5 = 95

=> Ans - (A)
Question 41
Find the missing numbers from the given alternatives

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<table>
<thead>
<tr>
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<tbody>
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<td>480</td>
<td>38</td>
</tr>
<tr>
<td>72</td>
<td>510</td>
<td>21</td>
</tr>
<tr>
<td>36</td>
<td>?</td>
<td>12</td>
</tr>
</tbody>
</table>

A 120
B 360
C 100
D 240
Answer: D

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Question 42
Rema walked 10kms south and turned right and walked 5kms. Then again she turned right and walked 10kms. Then she turned left and walked 10kms. How many kms will rema have to walk to reach the starting point?

A 25 km
B 20 km
C 5 km
D 15 km
Answer: D

Explanation:
Let Rema started from point A, she walked south for 10 km and reached point B, then she turned right and walked towards west for 5 km and reached C. Then, she turned left and reached D after walking for 10 km and finally again turned left and stopped at point E after walking 10 km.

Thus, AE = 10 + 5 = 15 km

=> Ans - (D)
Question 43

One statement is given followed by two conclusions/assumptions, I and II. You have to consider the statement to be true, even if it seems to be at variance from commonly known facts. You are to decide which of the given conclusions/assumptions can definitely be drawn from the given statement. Indicate your answer.

Statements:
All Hindus are God fearing. No Japanese is a Hindu.

Conclusions:
I. The Japanese are not God fearing.
II. All God fearing are Hindus.

A Only conclusion I follows
B Only conclusion II follows
C Both conclusion I and conclusion II follow
D Neither conclusion I nor conclusion II follows

Answer: D

Explanation:
All Hindus are God fearing does not imply that all God fearing are Hindus, thus second conclusion is definitely false.
Also, no Japanese is a Hindu does not imply the Japanese are not God fearing.
Thus, neither conclusion I nor conclusion II follows.
=> Ans - (D)

Question 44

Find the number of triangles in the figure

A 8
B 9
C 11
D 13

Answer: D

Explanation:
Smaller triangles = 6
Triangles formed with 1 triangle and 1 quadrilateral = 1
Triangles formed with combination of 2 triangles = 4
Triangles formed with combination of 3 triangles = 1
Triangles formed with 3 triangles and 1 quadrilateral = 1
Thus, total triangles = 6 + 1 + 4 + 1 + 1 = 13
Question 45

Study the following Venn Diagram and find the region representing persons who are educated and employed but not confirmed.

A a, c  
B a, b, c  
C b, d  
D a, d, c  
Answer: C

Explanation:

Persons who are educated and employed but not confirmed are represented in blue colour = b + d

=> Ans - (C)

Question 46

Which answer figure will complete the pattern in the question figure?
When we complete the above figure, we get:

Now, the fourth figure resembles the above missing part.

=> Ans - (D)

Question 47
From the given answer figures, select the one in which the question figure is hidden/embedded
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Question 48
A piece of paper is folded and cut as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.

Answer: D
Explanation:
The question figure is embedded in the following figure:

=> Ans - (D)
Question 49

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

Answer: C
Explanation:
A horizontal mirror is placed, so the objects will turn upside down in the mirror image (e.g. - an object at top right will appear at bottom right).

In the question figure, the hexagon is at the top, thus in the mirror image it will appear at the bottom as shown in second figure, hence first, third and last options are eliminated.

=> Ans - (B)

Question 50
In this question, the sets of numbers given in the alternatives are represented. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., O can be represented by 03, 14, etc., and K can be represented by 56, 65, etc. Similarly you have to identify the set for the word ‘EASE’

<table>
<thead>
<tr>
<th>Matrix - I</th>
<th>Matrix - II</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 E S U O H</td>
<td>5 6 7 8 9</td>
</tr>
<tr>
<td>1 S U H E O</td>
<td>6 K A S E N</td>
</tr>
<tr>
<td>2 O H E S U</td>
<td>7 N S E K A</td>
</tr>
<tr>
<td>3 U E O H S</td>
<td>8 A E N S K</td>
</tr>
<tr>
<td>4 H O U S E</td>
<td>9 S N K A E</td>
</tr>
</tbody>
</table>

A  55, 85, 44, 42
B  77, 85, 88, 44
C  77, 66, 31, 44
D  00, 98, 23, 98

Answer: B

Explanation:
(A) : 55, 85, 44, 42 = EAU
(B) : 77, 85, 88, 44 = EASE
(C) : 77, 66, 31, 44 = EAEE
(D) : 00, 98, 23, 98 = EASA

=> Ans - (B)
Question 52
The nationalisation of major commercial banks took place in
A 1947
B 1956
C 1969
D 1980
Answer: C

Question 53
Lok Sabha Secretariat comes under the direct control of
A Ministry of Home Affairs
B Ministry of Parliamentary Affairs
C Speaker of Lok Sabha
D President
Answer: C

Question 54
Which of the following Act introduced separate electorates (communal representation) for Muslims?
A 1892 Act
B Act of 1909
C Reforms of 1919
D Government of India Act of 1935
Answer: B

Question 55
Where is the Brihadeshwar temple, built during the Chola period, located?

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A. Mysore
B. Mahabalipuram
C. Tanjavur
D. Kanyakumari
Answer: C

Question 56
The first protocol to ban the emissions of chlorofluorocarbons in the atmosphere was made in

A. Montreal
B. Osaka
C. Geneva
D. Florida
Answer: A

Question 57
Blood group was discovered by

A. Alexander Fleming
B. William Harvey
C. Landsteiner
D. Paulov
Answer: C

Question 58
Magnetic Meridian is a

A. Line parallel to the equator of the Earth
B. Latitude
C. Line joining the geographic north and geographic south of Earth
D. Plane passing through the magnetic north and magnetic south of Earth
Answer: D

Question 59
Programs that duplicate the functionality of one system on another system is known as

A. Emulators
B. Simulators

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Question 60
The manufacturing of iron from iron-ore involves the process of

A Oxidation  
B Reduction  
C Electrolysis  
D Fractional distillation  
Answer: B

Question 61
In a rainforest, the vegetation that grows under the shade of a canopy is known as

A Crown  
B Canopy  
C Understorey  
D Forest floor  
Answer: C

Question 62
The term “roll-in” is used in

A Cricket  
B Tennis  
C Hockey  
D Golf  
Answer: C

Question 63
Which of the following is the busiest International sea port in India?

A Mumbai  
B Kolkata  
C Kochi  
D Tuticorin  
Answer: A
Question 64

The word "Secular" was added to the Preamble of the Constitution of India by which Constitutional Amendment?

A 41st Constitutional Amendment  
B 42nd Constitutional Amendment  
C 43rd Constitutional Amendment  
D 44th Constitutional Amendment  
Answer: B

Question 65

Who coined the slogan "Inquilab Zindabad"?

A Subash Chandra Bose  
B Balagangadhar Tilak  
C Bhagat Singh  
D Sukhdev  
Answer: C

Question 66

"Great Barrier Reef", the world's largest Coral reef is located in

A Caribbean Islands  
B Australia  
C Philippines  
D Indonesia  
Answer: B

Question 67

Decoding and interpretation of visual information in brain is associated with

A Frontal lobe  
B Occipital lobe  
C Temporal lobe  
D Parietal lobe  
Answer: C
Question 68
Fleming's "Left hand Rule" is associated with the effect of

A Electric field on current
B Magnetic field on magnet
C Electric field on magnet
D Magnetic field on current

Answer: D

Question 69
An emulsion is a colloidal solution of

A Liquid in liquid
B Solid in liquid
C Gas in solid
D Solid in Solid

Answer: A

Question 70
_________ is a byproduct of sewage treatment and can be decomposed to produce bio-gas

A Sewage
B Sludge
C Sewer
D Scum

Answer: B

Question 71
The BRICS New Development Bank (NDB) is headquartered at

A Shanghai
B New Delhi
C Brasilia
D Moscow

Answer: A

Question 72
Which one of the following cities of Iraq is located on Tigris river?
Question 73
Human Development Index is prepared by

A UNDP  
B WTO  
C IMF  
D WHO  
Answer: A

Question 74
Uber Cup is associated with

A Football  
B Handball  
C Badminton  
D Squash  
Answer: C

Question 75
The food in Onion is stored in the form of _______

A Cellulose  
B Protein  
C Starch  
D Sugar  
Answer: A
Question 76
In the following question, out of the four alternatives, choose the word which best expresses the meaning of the given word and click the button corresponding to it.

NEGOTIATION

A  IN-BETWEEN
B  CARELESSNESS
C  BARGAINING
D  SLACKNESS
Answer: C

Question 77
In the following question, out of the four alternatives, choose the word which is opposite in meaning to the given word and click the button corresponding to it.

IMPROMPTU

A  PUNCTUAL
B  PROMPT
C  PREPARED
D  PROFOUND
Answer: C

Question 78
Four words are given, out of which only one word is spelt correctly. Choose the correctly spelt word and click the button corresponding to it.

A  Bureaucracy
B  Beureaucracy
C  Beureaucracie
D  Bureaucracie
Answer: A

Question 79
In the following questions, one part of the sentence may have an error. Find out which part of the sentence has an error and click the button corresponding to it. If the sentence is free from error, click the "No error" option.

He told his friend (a) / that he could not do that work (b) / because it is not to his taste (c) / No Error (d)

A  He told his friend
B  that he could not do that work
C  because it is not to his taste

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Question 80
In the following questions, one part of the sentence may have an error. Find out which part of the sentence has an error and click the button corresponding to it. If the sentence is free from error, click the "No error" option.

The tragedy of Julius Caesar (a) / was written by William Shakespeare (b) / about 1599 (c) / No Error (d)

A The tragedy of Julius Caesar
B was written by William Shakespeare
C about 1599
D No Error

Answer: C

Question 81
In the following questions, one part of the sentence may have an error. Find out which part of the sentence has an error and click the button corresponding to it. If the sentence is free from error, click the "No error" option.

The writer is (a) / evidently enamoured at (b) / the subject (c) / No Error (d)

A The writer is
B evidently enamoured at
C the subject
D No Error

Answer: B

Question 82
The sentences given with blanks are to be filled with an appropriate word(s). Four alternatives are suggested for each question. For each question, choose the correct alternative and click the button corresponding to it.

Nothing is impossible _____ him.

A in
B about
C for
D on

Answer: C
Question 83
The sentences given with blanks are to be filled with an appropriate word(s). Four alternatives are suggested for each question. For each question, choose the correct alternative and click the button corresponding to it.
My relations _____ him are not friendly.

A  between  
B  with  
C  to  
D  for  

Answer: B

Question 84
The sentences given with blanks are to be filled with an appropriate word(s). Four alternatives are suggested for each question. For each question, choose the correct alternative and click the button corresponding to it.
George _____ to this country a year ago.

A  was coming  
B  came  
C  is coming  
D  comes  

Answer: B

Question 85
In each of the questions, four alternatives are given for the Idiom/Phrase. Choose the alternative which best expresses the meaning of the Idiom/Phrase and click the button corresponding to it.
Blow one's trumpet

A  To praise another  
B  To praise a leader  
C  To praise oneself  
D  To praise a community  

Answer: C

Question 86
In each of the questions, four alternatives are given for the Idiom/Phrase. Choose the alternative which best expresses the meaning of the Idiom/Phrase and click the button corresponding to it.
Stick to his guns

A  Stand by his truth  
B  Maintain his own opinion  

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Question 87
In each of the questions, four alternatives are given for the Idiom/Phrase. Choose the alternative which best expresses the meaning of the Idiom/Phrase and click the button corresponding to it.

At sea

A  Journey
B  At a loss
C  Surprise
D  Sad

Answer: B

Question 88
Out of the four alternatives, choose the one which can be substituted for the given words/sentences and click the button corresponding to it.

One who is eighty years old

A  Septagenarian
B  Sextagenarian
C  Nonagenarian
D  Octogenarian

Answer: D

Question 89
Out of the four alternatives, choose the one which can be substituted for the given words/sentences and click the button corresponding to it.

A shady fertile place in the desert

A  Oasis
B  Motel
C  Orchard
D  Garden

Answer: A

Question 90
Out of the four alternatives, choose the one which can be substituted for the given words/sentences and click the button corresponding to it.

A place where bees are kept

A  Orchard
B  Motel
C  Garden
D  Beekeeper

Answer: D
Instructions
A sentence/a part of the sentence is underlined. Four alternatives are given to the underlined part which will improve the sentence. Choose the correct alternative and click the button corresponding to it. In case no improvement is needed, click the button corresponding to "No improvement".

Question 91
Seeing may be believing but understanding are definitely knowing.

A understanding could be knowing
B understanding to know
C understanding is definitely knowing
D No improvement
Answer: C

Question 92
There are some bacteria that are survive inside nuclear power stations.

A have
B were
C can
D No improvement
Answer: C

Question 93
No sooner did she finish the lecture, that the students began to leave.

A then the students began to leave
B than the students began to leave
C and the students began to leave
D No improvement
Answer: B

Question 94
Hundreds gathered to await the boxer's arrival at the airport.
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Question 95
The dissidents hold a great problem in every political party.

A cause
B instil
C incite
D No improvement
Answer: A

Instructions
A passage is given with 5 questions following it. Read the passage carefully and choose the best answer to each question out of the four alternatives and click the button corresponding to it.

Stockholm is spread out on an archipelago of 14 islands, where Lake Malaren meets the Baltic Sea. More airy than Venice, with wide-open spaces, it is one-third water. Its other two-thirds combine arched bridges, jet fountains, and palatial buildings trimmed with gold. For Stockholmers, fans of great outdoors, this is an amiable and graceful home and a healthy environment in which to live. Minutes from the city centre are parks and woodland for recreation, and clear water for swimming and fishing. In winter, everyone takes to ice-skating, on artificial rinks in the shadows of grand palaces, or on the frozen waters of the channel.

Stockholm is also a city at the leading edge of fashion, design and advanced technology. Fashion houses and IT companies use the city as a test market for their innovations, especially as Stockholmers are followers of technology. Stockholm is the capital as well as the largest city of Sweden. It is the site of the government and Parliament of the country.

Question 96
An archipelago is a collection of _____ .

A cities
B islands
C lakes
D coral-reefs
Answer: B

Question 97
Stockholm is

A One-third water and two-thirds arched bridges, jet fountains and palatial buildings
B Two-thirds water and one-third land
Question 98
What is the opposite of the word 'amiable'?

A Enervating
B Refreshing
C Invigorating
D Unpleasant

Answer: D

Question 99
Why is Stockholm used as a test market for innovation by IT companies and Fashion houses?

A The Stockholmers are followers of technology.
B Stockholm is the largest city of Sweden.
C The citizens are fashionable.
D The people like the outdoors.

Answer: A

Question 100
Stockholm is important to the country because _____.

A it has palatial buildings.
B there are parks and woodlands for recreation.
C there are artificial skating rinks.
D it is the largest city and capital of Sweden.

Answer: D

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