



SSC CHSL 21 March 2018 Afternoon Shift

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Instructions

For the following questions answer them individually

Question 1

The sum of a fraction and its reciprocal is $\frac{113}{56}$. Find the fraction.

A $\frac{7}{8}$

B $\frac{5}{8}$

C $\frac{8}{9}$

D $\frac{3}{7}$

Answer: A

Explanation:

Let the fraction be x

According to ques,

$$\Rightarrow x + \frac{1}{x} = \frac{113}{56}$$

$$\Rightarrow \frac{x^2 + 1}{x} = \frac{113}{56}$$

$$\Rightarrow 56x^2 - 113x + 56 = 0$$

$$\Rightarrow 56x^2 - 49x - 64x + 56 = 0$$

$$\Rightarrow 7x(8x - 7) - 8(8x - 7) = 0$$

$$\Rightarrow (7x - 8)(8x - 7) = 0$$

$$\Rightarrow x = \frac{8}{7}, \frac{7}{8}$$

\Rightarrow Ans - (A)

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Question 2

The sum of the square of three consecutive odd numbers is 2195. Find the numbers.

A 21, 23, 25

B 23, 25, 27

C 25, 27, 29

D 27, 29, 31

Answer: C

Explanation:

Let the three consecutive odd numbers be $(x - 2)$, (x) , $(x + 2)$

According to ques,

$$\Rightarrow (x - 2)^2 + (x)^2 + (x + 2)^2 = 2195$$

$$\Rightarrow (x^2 - 4x + 4) + (x^2) + (x^2 + 4x + 4) = 2195$$

$$\Rightarrow 3x^2 + 8 = 2195$$

$$\Rightarrow 3x^2 = 2195 - 8 = 2187$$

$$\Rightarrow x^2 = \frac{2187}{3} = 729$$

$$\Rightarrow x = \sqrt{729} = 27$$

\therefore Consecutive odd numbers are = 25, 27, 29

\Rightarrow Ans - (C)

Question 3

If (8, 2) is a solution of $x+4y-2k=0$ then find the value of k^2 .

A 36

B 49

C 64

D 81

Answer: C

Explanation:

Given : (8, 2) is the solution of equation : $x + 4y - 2k = 0$

$$\Rightarrow 8 + 4(2) - 2k = 0$$

$$\Rightarrow 2k = 8 + 8 = 16$$

$$\Rightarrow k = \frac{16}{2} = 8$$

$$\therefore k^2 = (8)^2 = 64$$

\Rightarrow Ans - (C)

Question 4

From which of the following quadrants does the line $7x + 12y = 16$ will pass?

A I and II

B II and III

C I, II, III

D I, II, IV

Answer: D

Explanation:

$$\text{Equation : } 7x + 12y = 16$$

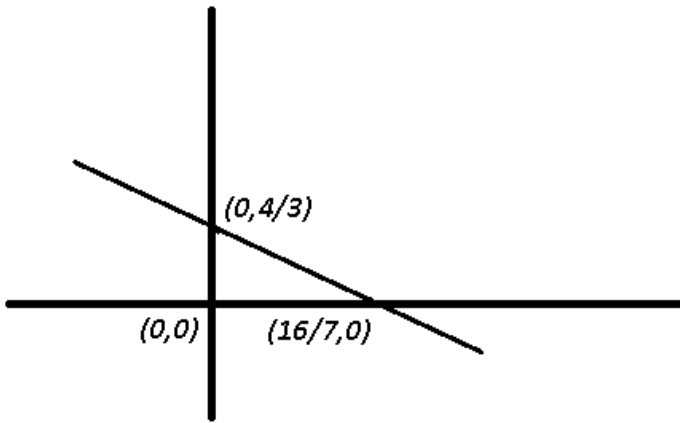
Solving the equation by putting $x = 0$, $\Rightarrow 12y = 16$

$$\Rightarrow y = \frac{16}{12} = \frac{4}{3}$$

Also, putting $y = 0$, $\Rightarrow 7x = 16$

$$\Rightarrow x = \frac{16}{7}$$

\therefore Plotting the graph for points $(0, \frac{4}{3})$ and $(\frac{16}{7}, 0)$



Thus, the equation $7x + 12y = 16$ passes through I, II and IV quadrants.

=> Ans - (D)

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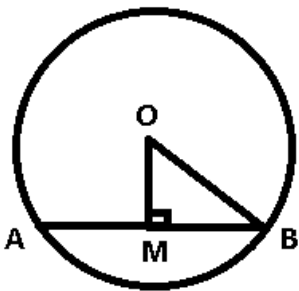
Question 5

Calculate the length (in cm) of the chord of the circle which is at the distance of the 12 cm from the centre and at the radius of the circle is 13 cm.

- A 10
- B 12
- C 13
- D 15

Answer: A

Explanation:



Given : $OB = 13$ cm and $OM = 12$ cm

To find : $AB = ?$

Solution : In right $\triangle OMB$,

$$\Rightarrow (MB)^2 = (OB)^2 - (OM)^2$$

$$\Rightarrow (MB)^2 = (13)^2 - (12)^2$$

$$\Rightarrow (MB)^2 = 169 - 144 = 25$$

$$\Rightarrow MB = \sqrt{25} = 5 \text{ cm}$$

$$\therefore AB = 2 \times 5 = 10 \text{ cm}$$

=> Ans - (A)

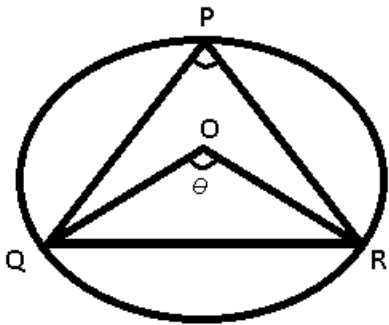
Question 6

A circle has points P, Q, R on a circle in such a way that angle PQR is 60° and angle QRP is 80° . Calculate the angle subtended by an arc QR at the centre.

- A 40°
- B 80°
- C 100°
- D 120°

Answer: B

Explanation:



Given : $\angle PQR = 60^\circ$ and $\angle QRP = 80^\circ$

To find : $\angle QOR = \theta = ?$

Solution : In $\triangle PQR$, using angle sum property

$$\Rightarrow \angle PQR + \angle QRP + \angle QPR = 180^\circ$$

$$\Rightarrow 60^\circ + 80^\circ + \angle QPR = 180^\circ$$

$$\Rightarrow \angle QPR = 180^\circ - 140^\circ = 40^\circ$$

Now, angle subtended by an arc at the centre is double the angle subtended by it at any point on the circle.

$$\Rightarrow \theta = 2 \times 40^\circ = 80^\circ$$

\Rightarrow Ans - (B)

Question 7

If a number is reduced by 35%, then it becomes 416. By how much percent should the number be increased so that it become 876.8?

- A 33
- B 37
- C 34.2
- D 38.4

Answer: B

Explanation:

After reducing the number by 35%, it becomes = 416

$$\Rightarrow \text{Original number} = \frac{416}{(100-35)} \times 100$$

$$= \frac{32}{5} \times 100 = 640$$

$$\therefore \% \text{ increase when number is increase to } 876.8 = \frac{(876.8 - 640)}{640} \times 100$$

$$= \frac{236.8}{640} = 37\%$$

=> Ans - (B)

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Question 8

If $p : q : r = 2 : 3 : 5$, then what will be the ratio of $(p + q + r) : (3p + q - r)$?

- A 5 : 2
- B 10 : 17
- C 9 : 4
- D 5 : 4

Answer: A

Explanation:

Given = $p : q : r = 2 : 3 : 5$

Let $p = 2, q = 3$ and $r = 5$

To find : $\frac{p+q+r}{3p+q-r}$

$$= \frac{2+3+5}{3(2)+3-5}$$

$$= \frac{10}{4} = \frac{5}{2}$$

=> Ans - (A)

Question 9

Sachin lent out Rs 60000 in two parts, first at 4% and the second at 10% interest. The yearly average interest comes out to be 6.4%. What are the amounts (in Rs) that were lent at 4% and 10% respectively?

- A 40000,20000
- B 48000,12000
- C 36000,24000
- D 32000,28000

Answer: C

Explanation:

Let sum lent for 4% = Rs. $100x$ and sum lent for 10% = Rs. $(60,000 - 100x)$

Time period = 1 year and rate of interest = 6.4%

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

$$= \frac{60,000 \times 6.4 \times 1}{100} = \text{Rs. } 3840$$

According to ques,

$$\Rightarrow \frac{100x \times 4 \times 1}{100} + \frac{(60000 - 100x) \times 10 \times 1}{100} = 3840$$

$$\Rightarrow 4x + (600 - x) \times 10 = 3840$$

$$\Rightarrow 4x + 6000 - 10x = 3840$$

$$\Rightarrow 6x = 6000 - 3840 = 2160$$

$$\Rightarrow x = \frac{2160}{6} = 360$$

$$\therefore \text{Amount lent at 4\%} = 100 \times 360 = \text{Rs. } 36,000$$

$$\text{Amount lent at 10\%} = (60,000 - 36,000) = \text{Rs. } 24,000$$

\Rightarrow Ans - (C)

Question 10

Average of the runs of 133 players of a team is 38. If the average of the runs of the male players is 43 and the average of the runs of the female players is 24, then what will be the ratio of the total runs of male players and the total runs of female players respectively?

A 301 : 60

B 7 : 3

C 39 : 11

D 60 : 207

Answer: A

Explanation:

Average of the runs of 133 players of a team = 38

$$\Rightarrow \text{Total runs scored} = 133 \times 38$$

Let number of male players = m , \Rightarrow Number of female players = $(133 - m)$

Thus, according to ques,

$$\Rightarrow 43(m) + 24(133 - m) = 133 \times 38$$

$$\Rightarrow 43m - 24m + (133 \times 24) = 133 \times 38$$

$$\Rightarrow 19m = 133(38 - 24)$$

$$\Rightarrow m = \frac{133 \times 14}{19} = 98$$

Thus, female players = $133 - 98 = 35$

\therefore Ratio of the total runs of male players and the total runs of female players respectively = $\frac{98 \times 43}{35 \times 24}$

$$= 301 : 60$$

\Rightarrow Ans - (A)

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Question 11

A sum of Rs 4000 becomes Rs 5800 in 3 years, when invested in a scheme of simple interest. If the same sum is invested in a scheme of compound interest with same yearly interest rate (compounding of interest is done yearly), then what will be the amount (in Rs) after 2 years?

A 4430

B 5450

C 5290

D 4970

Answer: C

Explanation:

Principal sum = Rs. 4000 and time period = 3 years

=> Amount after simple interest = Rs. 5800

Thus, simple interest = Rs. (5800-4000) = Rs. 1800

Let rate of interest = $r\%$

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

$$\Rightarrow \frac{4000 \times r \times 3}{100} = 1800$$

$$\Rightarrow 120r = 1800$$

$$\Rightarrow r = \frac{1800}{120} = 15\%$$

∴ Amount under compound interest = $P(1 + \frac{R}{100})^T$

$$= 4000(1 + \frac{15}{100})^2$$

$$= 4000(1 + \frac{3}{20})^2 = 4000(\frac{23}{20})^2$$

$$= 4000 \times \frac{529}{400}$$

$$= 10 \times 529 = \text{Rs. } 5290$$

=> Ans - (C)

Question 12

A sells vegetables at a profit of 35% and for weighing uses a weight which is 10% less than the article weight. What is total profit percentage?

A 50

B 35

C 45

D 55

Answer: A

Explanation:

Let cost price of 1 kg of vegetable = Rs. 1000 (1 gm cost Re. 1)

Weight used by A = $1000 - (\frac{10}{100} \times 1000) = 900$ gm

=> Cost price of 1 kg vegetable (900 gm in reality) = Rs. 900

Selling price after 35% profit = $1000 + (\frac{35}{100} \times 1000) = \text{Rs. } 1350$

$$\therefore \text{Profit \%} = \frac{(1350-900)}{900} \times 100$$

$$= \frac{450}{9} = 50\%$$

=> Ans - (A)

Question 13

A pen is sold at a discount of 36.36%. If the marked price of the pen is Rs 14300, then what is the selling price of the pen?

A 8600

B 9100

C 10200

D 11700

Answer: B

Explanation:

Marked price = Rs. 14,300

Discount % = 36.36%

$$\Rightarrow \text{Selling price} = 14,300 - \left(\frac{36.36}{100} \times 14,300\right)$$

$$= (14300 - 5200) = \text{Rs. } 9100$$

\(\Rightarrow\) Ans - (B)

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Question 14

Which of the following relation is CORRECT?

I. $(\sqrt{15} + \sqrt{7}) < (2\sqrt{22})$

II. $(\sqrt{17} + \sqrt{5}) < (\sqrt{20} + \sqrt{2})$

A Only I

B Only II

C Neither I nor II

D Both I and II

Answer: A

Explanation:

I: $(\sqrt{15} + \sqrt{7}) < (2\sqrt{22})$

Squaring both sides, we get :

$$\text{L.H.S.} = (\sqrt{15} + \sqrt{7})^2 = 15 + 7 + 2\sqrt{105} = (22 + 2\sqrt{105}) \approx (22 + 2 \times 10) = 42$$

$$\text{R.H.S.} = (2\sqrt{22})^2 = 88$$

Thus, L.H.S. < R.H.S., which is correct.

II: $(\sqrt{17} + \sqrt{5}) < (\sqrt{20} + \sqrt{2})$

Squaring both sides, we get :

$$\text{L.H.S.} = (\sqrt{17} + \sqrt{5})^2 = 17 + 5 + 2\sqrt{85} = (22 + 2\sqrt{85})$$

$$\text{R.H.S.} = (\sqrt{20} + \sqrt{2})^2 = 20 + 2 + 2\sqrt{40} = (22 + 2\sqrt{40})$$

\(\therefore\) $\sqrt{85} > \sqrt{40}$, then L.H.S. > R.H.S.

Thus, only I is correct.

\(\Rightarrow\) Ans - (A)

Question 15

If 60 boys can finish a work in 15 days by working 8 hours a day, then how many hours a day should 72 boys work to finish that work within 20 days?

A 4

B 6

C 5

D 7

Answer: C

Explanation:

Using, $M_1 \times D_1 \times H_1 = M_2 \times D_2 \times H_2$, where M is the number of persons, D is the number of days and H is the number of hours.

Let number of hours required = h

According to ques, $\Rightarrow 60 \times 15 \times 8 = 72 \times 20 \times h$

$$\Rightarrow h = \frac{60 \times 120}{72 \times 20}$$

$$\Rightarrow h = \frac{360}{72} = 5 \text{ hours}$$

\Rightarrow Ans - (C)

Question 16

Two trains are moving in the same direction at the speed of 23 km/hr and 77 km/hr. The time taken by faster train to cross a man sitting in the slower train is 40 seconds. What will be the length (in metres) of the faster train?

A 720

B 640

C 600

D 540

Answer: C

Explanation:

Let length of faster train = l m

The trains are moving in the same direction, thus relative speed = $77 - 23 = 54$ km/hr = $(54 \times \frac{5}{18}) = 15$ m/s

Time taken = 40 seconds

Using, distance = speed \times time

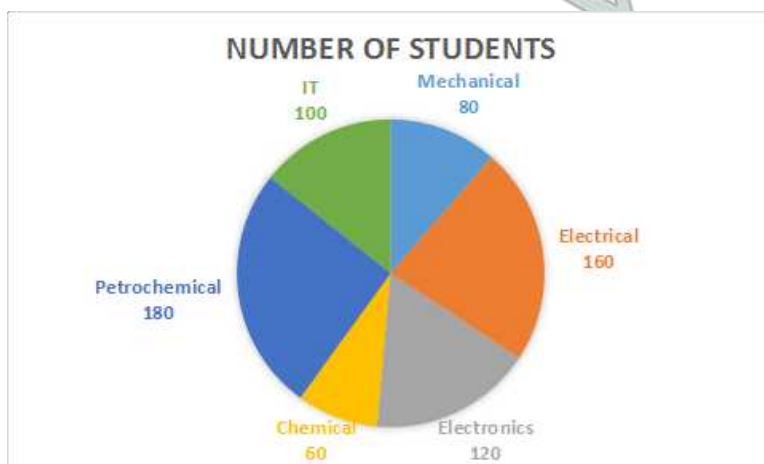
$$\Rightarrow l = 15 \times 40 = 600 \text{ m}$$

\Rightarrow Ans - (C)

SSC CHSL Important Questions and Answers (Download PDF)

Instructions

The pie chart shows the number of students enrolled in the various engineering courses that a certain college offers. Study the diagram and answer the following questions.



Question 17

The most number of students are enrolled in which course?

- A IT
- B Electrical
- C Electronics
- D Petrochemicals

Answer: D

Explanation:

The most number of students are enrolled in **Petrochemicals** = 180

=> Ans - (D)

Question 18

What is the total number of students enrolled in the college?

- A 600
- B 780
- C 700
- D 640

Answer: C

Explanation:

Total number of students enrolled in the college

$$= 80 + 160 + 120 + 60 + 180 + 100$$

$$= 700$$

=> Ans - (C)

Question 19

The measure of the central angle of the sector representing the Electrical course is _____ degrees.

- A 120
- B 90
- C 100
- D 82.28

Answer: D

Explanation:

Number of students in electrical = 160

Total number of students enrolled in the college

$$= 80 + 160 + 120 + 60 + 180 + 100 = 700$$

$$\Rightarrow \text{Required central angle} = \frac{160}{700} \times 360^\circ$$

$$= \frac{16 \times 36}{7} = 82.28^\circ$$

=> Ans - (D)

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Question 20

If the average annual fees paid by each student to enrol in this college is Rs 1.2 lakhs then what is the total annual fees (in Rs lakhs) collected by this college?

- A 840
- B 720
- C 956
- D 1080

Answer: A

Explanation:

Total number of students enrolled in the college

$$= 80 + 160 + 120 + 60 + 180 + 100 = 700$$

Average annual fees paid by each student = Rs. 1.2 lakhs

$$\text{Total annual fees (in Rs lakhs) collected by this college} = 700 \times 1.2 = 840$$

=> Ans - (A)

Instructions

For the following questions answer them individually

Question 21

The perimeter of a square is 34 cm. Find its area ($in\text{cm}^2$)

- A 144.5
- B 82.25
- C 164.5
- D 72.25

Answer: D

Explanation:

Let side of square = s cm

$$\Rightarrow \text{Perimeter} = 4s = 34$$

$$\Rightarrow s = \frac{34}{4} = 8.5 \text{ cm}$$

$$\therefore \text{Area} = (8.5)^2 = 72.25 \text{ cm}^2$$

=> Ans - (D)

Question 22

If the diameter of a circle is 28 cm, then what will be its circumference (in cm)?

- A 88
- B 176
- C 35

D 70

Answer: A

Explanation:

$$\text{Radius of circle} = r = \frac{28}{2} = 14 \text{ cm}$$

$$\Rightarrow \text{Circumference} = 2\pi r$$

$$= 2 \times \frac{22}{7} \times 14$$

$$= 44 \times 2 = 88 \text{ cm}$$

\Rightarrow Ans - (A)

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Question 23

Find the volume (in cm^3) of a hemisphere of diameter 7 cm.

A 77

B 63

C 89.83

D 54.13

Answer: C

Explanation:

$$\text{Diameter of hemisphere} = 7 \text{ cm}$$

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

$$= \frac{2}{3} \times \frac{22}{7} \times (7/2)^3$$

$$= \frac{11 \times 49}{6} = 89.83 \text{ cm}^3$$

\Rightarrow Ans - (C)

Question 24

ΔPQR is right angled at Q. If $m\angle P = 60^\circ$, then find the value of $(\sec R + \frac{1}{2})$

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

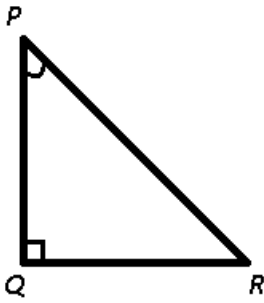
B $\frac{(\sqrt{3} + 4)}{2\sqrt{3}}$

C $\sqrt{3} + 2$

D $\frac{5}{6}$

Answer: B

Explanation:



Sum of angles of $\triangle PQR = \angle P + \angle Q + \angle R = 180^\circ$

$$\Rightarrow 60^\circ + 90^\circ + \angle R = 180^\circ$$

$$\Rightarrow \angle R = 180^\circ - 150^\circ = 30^\circ$$

To find : $(\sec R + \frac{1}{2})$

$$= \sec(30^\circ) + \frac{1}{2}$$

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

$$= \frac{(\sqrt{3}+4)}{2\sqrt{3}}$$

\Rightarrow Ans - (B)

Question 25

In $\triangle PQR$ measure of angle Q is 90° . If $\operatorname{cosec} P = \frac{17}{15}$, and $PQ = 0.8\text{cm}$, then what is the length (in cm) of side QR?

A 1.7

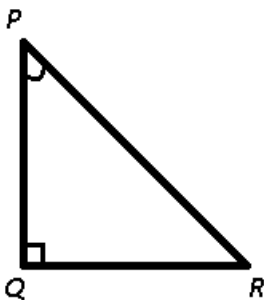
B 2

C 2.5

D 1.5

Answer: D

Explanation:



Given : $\operatorname{cosec} P = \frac{17}{15}$

Also, $\operatorname{cosec} P = \frac{PR}{QR} = \frac{17}{15}$

Let $PR = 17x$ cm and $QR = 15x$ cm

Thus, in $\triangle PQR$, $\Rightarrow (PQ)^2 = (PR)^2 - (QR)^2$

$$\Rightarrow (PQ)^2 = (17x)^2 - (15x)^2$$

$$\Rightarrow (PQ)^2 = 289x^2 - 225x^2 = 64x^2$$

$$\Rightarrow PQ = \sqrt{64x^2} = 8x \text{ cm}$$

According to ques, $\Rightarrow 8x = 0.8$

$$\Rightarrow x = \frac{0.8}{8} = \frac{1}{10}$$

$$\therefore QR = 15 \times \frac{1}{10} = 1.5 \text{ cm}$$

\Rightarrow Ans - (D)

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Reasoning

Instructions

For the following questions answer them individually

Question 26

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

Perimeter : Hexagon :: ? : ?

- A Length : Breadth
- B Circle : Circumference
- C Circle : Radius
- D Perimeter : Rhombus

Answer: D

Explanation:

Expression = Perimeter : Hexagon :: ? : ?

The first is the sum of sides of second, similar pattern is observed in Perimeter : Rhombus.

\Rightarrow Ans - (D)

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Question 27

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

45 : 20 :: 46 : ?

- A 32
- B 28
- C 24
- D 22

Answer: C

Explanation:

Expression = 45 : 20 :: 46 : ?

The second number in the pair is equal to the product of digits of first number.

$$\text{Eg :- } 4 \times 5 = 20$$

$$\text{Similarly, } 4 \times 6 = 24$$

\Rightarrow Ans - (C)

Question 28

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

IMO : PTV :: KOQ : ?

- A QUX
- B SVW
- C RVX
- D RUW

Answer: C

Explanation:

Expression = IMO : PTV :: KOQ : ?

The pattern followed is :

| | | |
|------|------|------|
| I | M | O |
| (+7) | (+7) | (+7) |
| P | T | V |

Similarly, for KOQ : **RVX**

| | | |
|------|------|------|
| K | O | Q |
| (+7) | (+7) | (+7) |
| R | V | X |

=> Ans - (C)

Question 29

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

- A Mammal - Goat
- B Amphibian - Frog
- C Reptile - Turtle
- D Crocodile - Reptile

Answer: D

Explanation:

The second (animal) belongs to the class of first. Goat is a mammal, frog is an amphibian and turtle a reptile, hence **Crocodile - Reptile** is the odd one out, since its order is reversed.

=> Ans - (D)

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Question 30

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

- A 58 - 62
- B 18 - 22

C 24 - 28

D 36 - 42

Answer: D

Explanation:

The difference between each of the pair of numbers is 4.

But in the last option $\Rightarrow 42 - 36 = 6$

Thus, (36 - 42) is the odd one out.

\Rightarrow Ans - (D)

Question 31

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

A EHL

B JMP

C SVY

D QTW

Answer: A

Explanation:

(A) : E (+3 letters) = H (+4 letters) = L

(B) : J (+3 letters) = M (+3 letters) = P

(C) : S (+3 letters) = V (+3 letters) = Y

(D) : Q (+3 letters) = T (+3 letters) = W

\Rightarrow Ans - (A)

Question 32

From the given alternatives, according to dictionary, which word will come at LAST position?

1. Jailor

2. Javelin

3. Jam

4. Jagged

5. Jacket

A Javelin

B Jailor

C Jacket

D Jagged

Answer: A

Explanation:

As per the order of dictionary :

= Jacket \rightarrow Jagged \rightarrow Jailor \rightarrow Jam \rightarrow Javelin

Thus, the last word = **Javelin**

\Rightarrow Ans - (A)

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Question 33

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

6578, 4381, 2653, ?, 322

A 1322

B 1653

C 1326

D 1632

Answer: A

Explanation:

Cubes of consecutive integers are subtracted in decreasing order.

$$6578 - (13)^3 = 4381$$

$$4381 - (12)^3 = 2653$$

$$2653 - (11)^3 = \mathbf{1322}$$

$$1322 - (10)^3 = 322$$

=> Ans - (A)

Question 34

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

FH, KM, PR, UW, ?

A ZB

B YA

C XZ

D YC

Answer: A

Explanation:

Series : FH, KM, PR, UW, ?

The pattern followed in each letter of the terms is :

1st letter : F (+5 letters) = K (+5 letters) = P (+5 letters) = U (+5 letters) = Z

2nd letter : H (+5 letters) = M (+5 letters) = R (+5 letters) = W (+5 letters) = B

Thus, missing term = **ZB**

=> Ans - (A)

Question 35

Six boys are sitting in a row facing south. Gaurav is second to the right of Akash who is at one of the end. Prem is at fourth position to the left of Raman. Jatin and Nitin sit together. How many boys are sitting to the left of Nitin?

A 4

B 2

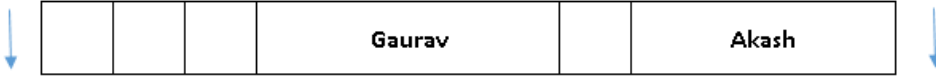
C 3

D Cannot be determined

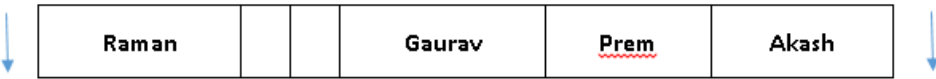
Answer: D

Explanation:

All of them are facing south, and Gaurav is second to the right of Akash who is at one of the end, => Akash is at the left end (facing south).



Prem is at fourth position to the left of Raman, => Raman is at the rightmost end.



Jatin and Nitin sit together, which is quite clear but any of them can sit at second or third place.

Thus, final arrangement is :



∴ We cannot determine as to how many boys are sitting to the left of Nitin.

=> Ans - (D)

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Question 36

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

Hardship

A Ship

B Hip

C Hard

D Road

Answer: D

Explanation:

The word HARDSHIP does not contain any 'O', thus the term Road cannot be formed.

=> Ans - (D)

Question 37

In a certain code language, "CAB" is written as "6" and "LAN" is written as "27". How is "FAN" written in that code language?

A 20

B 21

C 22

D 23

Answer: B

Explanation:

The letters are numbered based on their position according to the English alphabetical order. A=1, B=2, C=3, D=4 and so on. The numbers are then added to get the final output.

Eg :- CAB = 3 + 1 + 2 = 6

LAN = 12 + 1 + 14 = 27

Similarly, FAN = 6 + 1 + 14 = 21

=> Ans - (B)

Question 38

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

$17 - 8 + 2 \times 9 \div 8 = ?$

A 7

B 40

C 67

D 32

Answer: C

Explanation:

Expression : $17 - 8 + 2 \times 9 \div 8 = ?$

$\equiv 17 \times 8 \div 2 - 9 + 8$

$= (17 \times 4) - 1$

$= 68 - 1 = 67$

=> Ans - (C)

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Question 39

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

$17 \times 6 + 2 - 9 \div 2 = 44$

A ÷ and +

B ÷ and x

C x and -

D + and -

Answer: A

Explanation:

Expression : $17 \times 6 + 2 - 9 \div 2 = 44$

(A) : ÷ and +

$\equiv 17 \times 6 \div 2 - 9 + 2 = 44$

L.H.S. = $(17 \times \frac{6}{2}) - 9 + 2$

$= (17 \times 3) - 7 = 44 = \text{R.H.S.}$

=> Ans - (A)

Question 40

If $1!9 = -80$, $2!8 = -60$ and $8!1 = 70$, then find the value of $3!2 = ?$

- A -20
- B -120
- C 100
- D 10

Answer: D

Explanation:

Given : $1!9 = -80$, $2!8 = -60$ and $8!1 = 70$

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

Eg :- $(1 - 9) \times 10 = -80$

and $(2 - 8) \times 10 = -60$ and $(8 - 1) \times 10 = 70$

Similarly, $(3 - 2) \times 10 = 10$

=> Ans - (D)

Question 41

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

QRQPQPQP, QPRQPQPQ, QPQRQPQP, QPQRQPQP, QPQPQPQP, _____

- A QPQPQPQP
- B RQPQPQPQ
- C QRPQPQPQ
- D QPRQPQPQ

Answer: A

Explanation:

Expression : QRQPQPQP, QPRQPQPQ, QPQRQPQP, QPQRQPQP, QPQPQPQP, _____

The above series is a combination of 4 'QP', also there is an 'R' in each term starting from second position from left side and shifting one place to the right in each term.

Thus, in the missing term, 'R' will be at third last position = **QPQPQPQP**

=> Ans - (A)

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Question 42

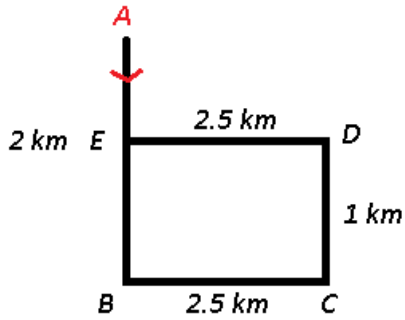
A street vendor pushes his cart 2 km South, then he turns East and walks 2.5 km, then he turns North and walks 1 km, then he turns to his left and walks 2.5 km. Where is he with respect to his starting point?

- A 3 km South
- B 1 km North
- C 3 km North
- D 1 km South

Answer: D

Explanation:

Let the street vendor pushes his cart from point A for 2 km South to reach B, then he turns East and walks 2.5 km to point C, then he turns North and walks 1 km to reach D, finally he turns to his left and walks 2.5 km towards west to reach E.



=> $AE = 2 - 1 = 1$ km

∴ He is **1 km south** with respect to his starting point.

=> Ans - (D)

Question 43

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

Statement I: All bread are pancakes

Statement II: Some pizzas are bread

Conclusion I: No pancakes are pizzas

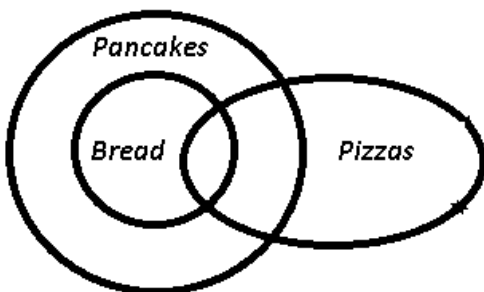
Conclusion II: Some pizzas are pancakes

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

Answer: B

Explanation:

The venn diagram for above statements is :



Conclusion I: No pancakes are pizzas = false

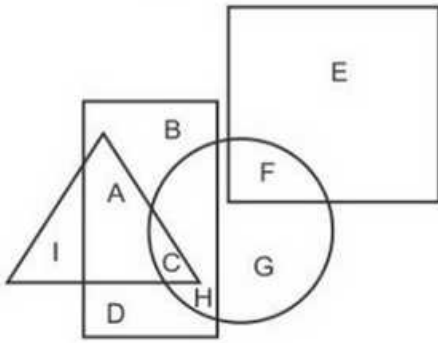
Conclusion II: Some pizzas are pancakes = true

Thus, only conclusion II follows.

=> Ans - (B)

Question 44

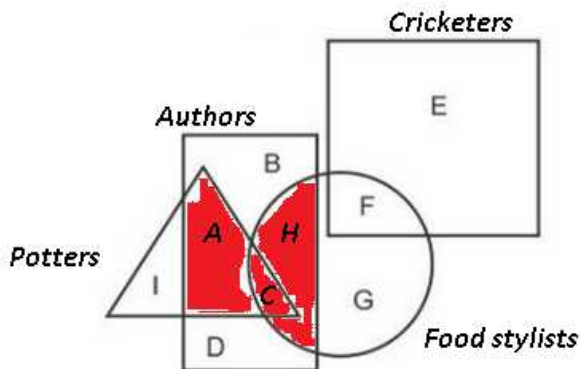
In the following figure, rectangle represents Authors, circle represents Food stylists, triangle represents Potters and square represents Cricketers. Which set of letters represents Authors who are either Food stylists or Potters?



- A ACH
- B AC
- C CH
- D C

Answer: A

Explanation:



Authors who are either Food stylists or Potters are represented by = ACH

=> Ans - (A)

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Question 45

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series. HPU, BJO, VDI, PXC, ?

- A JPX
- B KRX
- C KPW
- D JRW

Answer: D

Explanation:

Series : HPU, BJO, VDI, PXC, ?

The pattern followed in each letter of the terms is :

1st letter : H (-6 letters) = B (-6 letters) = V (-6 letters) = P (-6 letters) = J

2nd letter : P (-6 letters) = J (-6 letters) = D (-6 letters) = X (-6 letters) = R

3rd letter : U (-6 letters) = O (-6 letters) = I (-6 letters) = C (-6 letters) = W

Thus, missing term = **JRW**

=> Ans - (D)

Question 46

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

29, 27, 24, ?, 15, 9

A 22

B 18

C 20

D 16

Answer: C

Explanation:

Consecutive integers are subtracted.

$$29 - 2 = 27$$

$$27 - 3 = 24$$

$$24 - 4 = \mathbf{20}$$

$$20 - 5 = 15$$

$$15 - 6 = 9$$

=> Ans - (C)

Question 47

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

A (4, 17, 13)

B (6, 19, 15)

C (15, 28, 25)

D (11, 24, 20)

Answer: C

Explanation:

The numbers are of the form : $(x, x + 13, x + 9)$

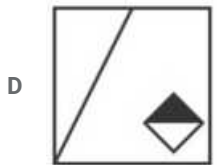
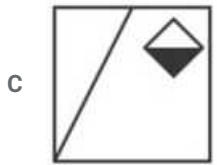
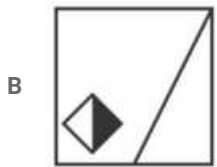
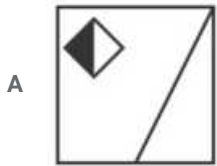
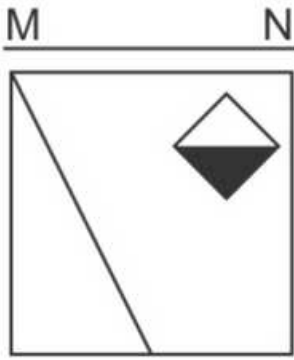
But in the third option, we have = $15 + 9 = 24 \neq 25$

Thus, (15, 28, 25) is the odd one out.

=> Ans - (C)

Question 48

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



Answer: D

Explanation:

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

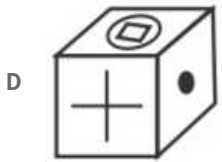
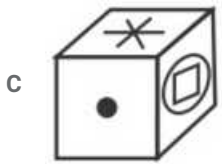
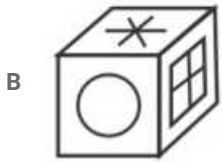
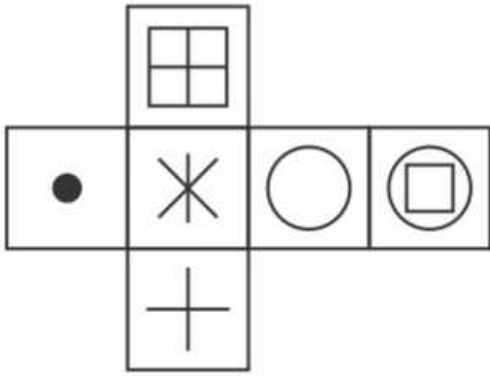
So the diagonal originating from top left will now appear at bottom left, thus the first two options will be eliminated.

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

=> Ans - (D)

Question 49

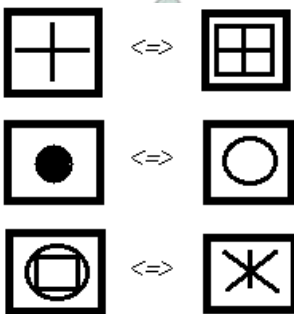
Which of the following cube in the answer figure cannot be made based on the unfolded cube in the question figure?



Answer: C

Explanation:

When we fold the given figure, the square with a 'X' sign and a vertical line will become the base of the cube and the square inside the circle will become top, and thus they will face each other. Similarly, the sides which will face each other will be :



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

=> Ans - (C)

Question 50

A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as shown in the given two matrices. The columns and rows of Matrix-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, for 'earn' can be represented by 20, 32 etc and 'V' can be represented by 58, 98 etc. Similarly, you have to identify the set for the word 'BANE'.

Matrix - I

| | | | | | |
|---|---|---|---|---|---|
| | 0 | 1 | 2 | 3 | 4 |
| 0 | A | J | M | L | H |
| 1 | D | K | J | M | E |
| 2 | C | L | K | L | B |
| 3 | E | A | C | K | E |
| 4 | I | K | I | L | D |

Matrix - II

| | | | | | |
|---|---|---|---|---|---|
| | 5 | 6 | 7 | 8 | 9 |
| 5 | P | Y | V | S | W |
| 6 | R | O | R | U | Z |
| 7 | T | U | U | P | O |
| 8 | W | X | Q | W | N |
| 9 | N | N | P | S | X |

- A 20,67,21,78
- B 24,66,34,79
- C 24,31,96,14
- D 23,78,11,99

Answer: C

Explanation:

- (A) : 20,67,21,78 = CRLP
 - (B) : 24,66,34,79 = BOEO
 - (C) : 24,31,96,14 = **BANE**
 - (D) : 23,78,11,99 = LPKX
- => Ans - (C)

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English

Instructions

For the following questions answer them individually

Question 51

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

When we respect (a) everyone's spiritual identity, (b) we promote peace and happiness to all. (c) No error (d)

- A a
- B b
- C c
- D d

Answer: C

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Question 52

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

A balanced diet is one that provide (a) an adequate intake of energy and nutrients (b) for maintenance of the body and therefore good health. (c) No error (d)

A a

B b

C c

D d

Answer: A

Question 53

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

He asked him to _____ some documents.

A set out

B go through

C look up

D imagine

Answer: B

Question 54

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

The server with _____ I was talking is my good friend.

A who

B her

C whom

D which

Answer: C

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Question 55

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

Perspicacious

A Foolish

B Obscure

- C Shrewd
- D Indistinct

Answer: C

Question 56

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

- A Clever
- B Mild
- C Sinuous
- D Wild

Answer: C

Question 57

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

- A Accuse
- B Charge
- C Indict
- D Free

Answer: D

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Question 58

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

- A Stuffy
- B Graceful
- C Indifferent
- D Light

Answer: A

Question 59

Rearrange the parts of the sentence in correct order.

Over population of humans is

P : the biggest factor behind so

Q : many social, sustainable and environmental

R : issues all over the world

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

Answer: D

Question 60

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

The youngsters lined the cafe.

- A The cafe is lined by the youngsters.
- B The cafe was lined by the youngsters.
- C The cafe lined by the youngsters.
- D The cafe is lined.

Answer: B

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Question 61

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

She said, "I will visit the temple."

- A She said that she will visit the temple.
- B She said that she would visit the temple.
- C She acknowledged that she would visit the temple.
- D She says she would visit the temple.

Answer: B

Question 62

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

- A Dielema
- B Dilemma
- C Dielemma
- D Dilemna

Answer: B

Instructions

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

Society and individuals will evolve _____ changing times. Technology will continue to play an increasingly _____ role in our lives in the years to come. Passing the blame on to technology is the easiest thing to do, but how we _____ to use technology is an individual decision. In an attempt to be connected with the world _____ large, are we getting disconnected with the people who mean the most to us? This is a question worth pondering _____.

Question 63

Society and individuals will evolve _____ changing times.

- A by
- B so
- C if
- D with

Answer: D

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Question 64

_____ play an increasingly _____ role in our lives

- A importances
- B important
- C importance
- D importantly

Answer: B

Question 65

_____ but how we _____ to use technology

- A choice
- B choose
- C choices
- D chosen

Answer: B

Question 66

_____ with the world _____ large, are we getting

- A to
- B as
- C at

D is

Answer: C

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Question 67

This is a question worth pondering _____.

- A onto
- B above
- C over
- D in

Answer: C

Instructions

For the following questions answer them individually

Question 68

In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase. Don't count your chickens before the eggs have hatched

- A Counting your wealth repeatedly does not increase it.
- B You should not make plans that depend on something good happening before you know that it has actually happened.
- C Chicken and egg is an infinite cycle, you can count this cycle endlessly.
- D Eggs will not hatch unless you cease the counting process.

Answer: B

Question 69

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

- A Every thing prepared and kept ready for you.
- B Accept something without checking its veracity.
- C No longer in difficulty or trouble.
- D Put a person who is helping you into a difficult situation.

Answer: C

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Question 70

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

- A Futile

- B Extraneous
- C Appertain
- D Irrelative

Answer: C

Question 71

In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence. In a way that is clear or obvious to the eye or mind

- A Abstruse
- B Clandestine
- C Manifestly
- D Covertly

Answer: C

Question 72

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

I (has failed) in my eleventh grade chemistry paper.

- A was fail
- B had failed
- C is failing
- D no improvement

Answer: B

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Question 73

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

In the post-liberalisation era, urbanisation (has being taking) place at a rapid pace.

- A has been taking
- B has been took
- C had been took
- D no improvement

Answer: A

Question 74

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

On another day I was

A : demanded to see my ticket

B : ticket-checking personnel

C : travelling in the train when the

A CAB

B BCA

C CBA

D BAC

Answer: C

Question 75

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

A humanitarianism

B humanitariaesm

C humaniterianism

D humaniteriaesm

Answer: A

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General Awareness

Instructions

For the following questions answer them individually

Question 76

The demand for labour is the same as the _____.

A marginal revenue product

B marginal physical product

C marginal cost

D wage

Answer: A

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Question 77

In which year the Board of Industrial and Financial Reconstruction (BIFR) came in to existence?

- A 1987
- B 1984
- C 1989
- D 1981

Answer: A

Question 78

What is called the line that combines the places of same amount of rainfall?

- A Isobath
- B Isohyet
- C Isoryme
- D Isoneph

Answer: B

Question 79

Which of the following is NOT correctly matched?

- A Loktak Lake - Manipur
- B Sambhar Lake - Rajasthan
- C Lake Lonar - Maharashtra
- D Hussain Sagar - Karnataka

Answer: D

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Question 80

Who is credited for the construction of the Red Fort?

- A Sikandar Lodi
- B Akbar
- C Jahangir
- D Shah Jahan

Answer: D

Question 81

When did all the trade unions, except Ahmedabad Textile Labor Union, be unified?

- A 1930
- B 1928

C 1932

D 1933

Answer: A

Question 82

The word Tirthankara is related to which religion?

A Buddhism

B Christianity

C Jainism

D Hinduism

Answer: C

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Question 83

Which country was ranked the world's richest in terms of per capita GDP of countries as per latest data released by the International Monetary Fund (IMF) on November 18, 2017?

A UAE

B Qatar

C Saudi Arabia

D Kuwait

Answer: B

Question 84

Who among the following writers was, on August 30, 2017, honoured with the Sarswati Samman for 2016?

A Kedarnath Singh

B Mahabaleshwar Sail

C Rajen Toijmba

D Autar Krishen Rahbar

Answer: B

Question 85

What is the International Calling Code of Nepal?

A 977

B 947

C 974

D 964

Answer: A

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Question 86

Which of the following statements are CORRECT?

- I. Oxides of metals are generally basic.
- II. Oxides of non-metals are generally acidic.
- III. Non-metals are generally electro positive.

- A Only I and II
- B Only I and III
- C Only II and III
- D All I, II and III

Answer: A

Question 87

Which one of the following mixture is homogeneous?

- A Water and oil
- B Starch and sugar crystals
- C Graphite and charcoal
- D Alloys

Answer: D

Question 88

In India, who among the following is the leader of Council of Ministers and leader of the Parliament?

- A Home Minister of India
- B Prime Minister of India
- C Defence Minister of India
- D The President of India

Answer: B

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Question 89

Which Part of Indian Constitution deals with Centre-State financial relations?

- A Part X
- B Part VIII
- C Part XII

D Part XX

Answer: C

Question 90

Which is the muscular tissue i.e, multinucleated?

- A Smooth muscle
- B Cardiac muscle
- C Skeletal muscle
- D Unstriated muscle

Answer: C

Question 91

Which of the following plant group has hidden reproductive organs?

- A Bryophyta
- B Thallophyta
- C Pteridophyta
- D All option are correct.

Answer: D

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Question 92

On 2 January 2018, who launched the 'NARI' portal in New Delhi to provide important information about Government schemes?

- A Sushma Swaraj
- B Maneka Gandhi
- C Nirmla Sitharaman
- D Anupriya Patel

Answer: B

Question 93

What is the name of North Korea's most powerful nuclear - capable intercontinental ballistic missile?

- A Hwasong-15
- B Hwasong-5
- C Hwasong-10
- D Hwasong-20

Answer: A

Question 94

In January 2018, SBI planned to raise some money via BASEL-III Bonds. What is the deadline to meet the BASEL-III requirements?

- A June 2018
- B December 2018
- C March 2019
- D June 2019

Answer: D

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Question 95

On 11 October, 2017 the Supreme Court criminalized sex with underage wife aged below _____ years.

- A 15
- B 18
- C 21
- D No option is correct.

Answer: B

Question 96

Calculate the pressure (in Pa) if a thrust of 750 N is applied to an area of $5m^2$.

- A 37.5
- B 150
- C 75
- D 100

Answer: B

Question 97

_____ is defined as the rate of doing work.

- A Energy
- B Force
- C Power
- D momentum

Answer: C

Question 98

_____ kills the germs present in the water.

- A Evaporation
- B Rehydration
- C Boiling
- D Desiccation

Answer: C

Question 99

Which of the statements given below are correct?

- A) In 2018 IPL auctions, Sunrisers Hyderabad retained David Warner.
- B) In 2017 Pro Kabaddi League, Rohit Kumar played for Bengaluru Bulls.
- C) Lewis Hamilton won the Formula One 2017 Azerbaijan Grand Prix.

- A Only A
- B Only B
- C Both A and B
- D A, B and C

Answer: C

Question 100

In HTML, _____ is a set of links designed as buttons.

- A Header area
- B Menu bar
- C Body of the page
- D Footer area

Answer: B

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