



SSC CHSL 25 March 2018 Morning Shift

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Instructions

For the following questions answer them individually

Question 1

If a number $6573547x45$ is divisible by 9, then find the value of x .

- A 7
- B 0
- C 8
- D 6

Answer: C

Explanation:

For a number to be divisible by 9, sum of digits of the number must be divisible by 9.

$$\Rightarrow \text{Sum of digits of number} = 6 + 5 + 7 + 3 + 5 + 4 + 7 + x + 4 + 5 = (x + 46)$$

Clearly, the sum is greater than 46, so the next multiples of 9 is 54.

$$\Rightarrow x + 46 = 54$$

$$\Rightarrow x = 54 - 46 = 8$$

\Rightarrow Ans - (C)

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Question 2

Calculate the value of $\frac{59881 \times 59881 - 49681 \times 49681}{10200}$

- A 110956
- B 109562
- C 109652
- D 109662

Answer: B

Explanation:

$$\text{Expression} = \frac{59881 \times 59881 - 49681 \times 49681}{10200}$$

$$= \frac{(59881)^2 - (49681)^2}{10200}$$

$$\text{Using, } a^2 - b^2 = (a - b)(a + b)$$

$$= \frac{(59881 - 49681) \times (59881 + 49681)}{10200}$$

$$= \frac{10200 \times 109562}{10200} = 109562$$

\Rightarrow Ans - (B)

Question 3

If $\left(\frac{5}{7}\right)^{4x} \left(\frac{7}{5}\right)^{3x-1} = \left(\frac{7}{5}\right)^6$, then the value of x which satisfies the equation.

- A -1

- B -7
- C 1
- D 7

Answer: B

Explanation:

$$\text{Expression : } \left(\frac{5}{7}\right)^{4x} \left(\frac{7}{5}\right)^{3x-1} = \left(\frac{7}{5}\right)^6$$

$$\Rightarrow \left(\frac{7}{5}\right)^{-4x} \left(\frac{7}{5}\right)^{3x-1} = \left(\frac{7}{5}\right)^6$$

Using, $(a)^m \times (a)^n = (a)^{m+n}$

$$\Rightarrow \left(\frac{7}{5}\right)^{-4x+3x-1} = \left(\frac{7}{5}\right)^6$$

Comparing the exponents, we get :

$$\Rightarrow -x - 1 = 6$$

$$\Rightarrow x = -1 - 6 = -7$$

\Rightarrow Ans - (B)

Question 4

If $\frac{x^{32}-1}{x^{16}} = 5$, then find the value of $\frac{x^{96}-1}{x^{48}}$

- A 40
- B 70
- C 140
- D 180

Answer: C

Explanation:

$$\text{Given : } \frac{x^{32}-1}{x^{16}} = 5$$

$$\Rightarrow x^{16} - \frac{1}{x^{16}} = 5 \text{ -----(i)}$$

Cubing both sides, we get :

$$\Rightarrow \left(x^{16} - \frac{1}{x^{16}}\right)^3 = (5)^3$$

$$\Rightarrow x^{48} - \frac{1}{x^{48}} - 3\left(x^{16}\right)\left(\frac{1}{x^{16}}\right)\left(x^{16} + \frac{1}{x^{16}}\right) = 125$$

$$\Rightarrow x^{48} - \frac{1}{x^{48}} - 3(5) = 125$$

$$\Rightarrow \frac{x^{96}-1}{x^{48}} = 125 + 15 = 140$$

\Rightarrow Ans - (C)

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Question 5

If the length of the transverse tangent is 8 cm, then calculate the centre distance (in cm) of the two circles with radii 7 cm and 3 cm.

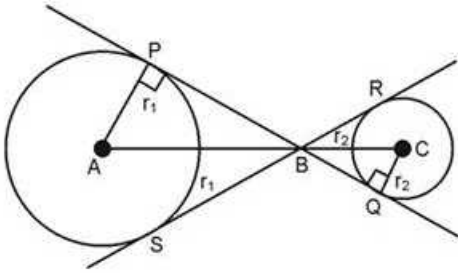
- A $\sqrt{100}$
- B $\sqrt{120}$

C $\sqrt{164}$

D $\sqrt{180}$

Answer: C

Explanation:



PQ and RS are traverse common tangents

Let the distance between centres $AC = d$ cm

Then, length of traverse common tangent is given by $(PQ)^2 = (RS)^2 = d^2 - (r_1 + r_2)^2$

$$\Rightarrow (8)^2 = d^2 - (7 + 3)^2$$

$$\Rightarrow d^2 = 100 + 64 = 164$$

$$\Rightarrow d = \sqrt{164} \text{ cm}$$

\Rightarrow Ans - (C)

Question 6

Calculate the value of $\angle OBC + \angle BAC$, if O is the circum-centre of the triangle ABC inscribed in the circle.

A 60°

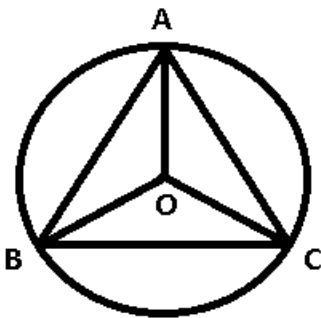
B 90°

C 120°

D 130°

Answer: B

Explanation:



O is the circumcentre of the triangle, $\Rightarrow \angle BOC = 2\angle BAC$ -----(i)

$OB = OC = \text{radius of circle} \Rightarrow \angle OBC = \angle OCB$

In $\triangle OBC$, $\Rightarrow \angle OBC + \angle OCB + \angle BOC = 180^\circ$

$$\Rightarrow 2\angle OBC + 2\angle BAC = 180^\circ \quad [\text{Using equation (i)}]$$

$$\Rightarrow 2(\angle OBC + \angle BAC) = 180^\circ$$

$$\Rightarrow \angle OBC + \angle BAC = \frac{180}{2} = 90^\circ$$

=> Ans - (B)

Question 7

Weight of A and B are in the ratio 11 : 8. A's weight increases by 40% and the total weight of A and B increases by 30%. What is the percentage increase in the B's weight?

- A 10.25
- B 16.25
- C 12.5
- D 18.75

Answer: B

Explanation:

Let A's weight = 11 kg and B's weight = 8 kg

A's new weight after 40% increase = $11 \times \frac{140}{100} = 15.4$ kg

Similarly, total weight of (A+B) after 30% increase = $19 \times \frac{130}{100} = 24.7$ kg

=> B's new weight = $24.7 - 15.4 = 9.3$ kg

∴ increase in weight of B = $\frac{(9.3-8)}{8} \times 100 = 16.25\%$

=> Ans - (B)

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Question 8

The income of S, T and U are in the ratio of 7 : 9 : 6 and their expenses in the ratio of 4 : 5 : 3. If S saves Rs 2000 out of an income of Rs 14000, then what will be the saving (in Rs) of T?

- A 2400
- B 1500
- C 3000
- D 2000

Answer: C

Explanation:

Income of S = Rs. 14,000 and savings of S = Rs. 2,000

=> Expenditure of S = $14000 - 2000 =$ Rs. 12,000

Ratio of income of S, T and U = 7 : 9 : 6

=> Income of T = $\frac{9}{7} \times 14,000 =$ Rs. 18,000

Similarly, expenditure of T = $\frac{5}{4} \times 12,000 =$ Rs. 15,000

∴ Savings of T = $18000 - 15000 =$ Rs. 3,000

=> Ans - (C)

Question 9

A mixture contains acid and water in the ratio of 7 : 3. If 4 litres of water is added to it, then the ratio of acid and water becomes 7 : 4. What is the quantity (in litres) of acid in the mixture?

- A 28
- B 22
- C 20
- D 32

Answer: A

Explanation:

Let quantity of acid and water be $7x$ and $3x$ litres respectively.

According to ques,

$$\Rightarrow \frac{7x}{3x+4} = \frac{7}{4}$$

$$\Rightarrow 28x = 21x + 28$$

$$\Rightarrow 28x - 21x = 28$$

$$\Rightarrow x = \frac{28}{7} = 4$$

\therefore Total quantity of acid = $7 \times 4 = 28$ litres

\Rightarrow Ans - (A)

Question 10

What will be the average of the first 7 positive odd numbers divisible by 5?

- A 45
- B 35
- C 40
- D 32

Answer: B

Explanation:

Sum of first 7 positive odd numbers divisible by 5 are

$$= 5 + 15 + 25 + 35 + 45 + 55 + 65 = 245$$

$$\Rightarrow \text{Required average} = \frac{245}{7} = 35$$

\Rightarrow Ans - (B)

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Question 11

The simple interest on a sum is $\frac{7}{8}$ of the principal for 5 years. What is the rate (in percentage) of interest per annum?

- A 15
- B 17.5
- C 14
- D 22.5

Answer: B

Explanation:

Let principal amount = Rs. $8x$

$$\Rightarrow \text{Simple interest} = \frac{7}{8} \times 8x = \text{Rs. } 7x$$

Let rate of interest = $r\%$ and time period = 5 years

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

$$\Rightarrow \frac{8x \times r \times 5}{100} = 7x$$

$$\Rightarrow \frac{2r}{5} = 7$$

$$\Rightarrow x = \frac{5 \times 7}{2} = \frac{35}{2} = 17.5\%$$

\Rightarrow Ans - (B)

Question 12

If A purchase 9 chairs for Rs 5 and sells all the chairs at the rate of 5 chairs for Rs 9, then what will be the profit percentage?

A 212

B 224

C 248

D 194

Answer: B

Explanation:

Cost price of 9 chairs = Rs. 5

$$\Rightarrow \text{Cost price of 45 chairs} = 5 \times 5 = \text{Rs. } 25$$

Selling price of 5 chairs = Rs. 9

$$\Rightarrow \text{Selling price of 45 chairs} = 9 \times 9 = \text{Rs. } 81$$

$$\therefore \text{Profit \%} = \frac{(81-25)}{25} \times 100$$

$$\Rightarrow 56 \times 4 = 224\%$$

\Rightarrow Ans - (B)

Question 13

The marked price of a pen is Rs 3000. The shopkeeper gives two successive discounts of 15% and $a\%$ to the customer. If the customer pays Rs 2142 for the pen, then what is the value (in percentage) of a ?

A 16

B 14

C 18

D 17

Answer: A

Explanation:

Marked price = Rs. 3000

$$\text{After first discount of 15\%, price of pen} = 3000 - \left(\frac{15}{100} \times 3000\right)$$

$$= 3000 - 450 = \text{Rs. } 2550$$

$$\text{After 2nd discount of } a\%, \text{ price} = 2550 - \left(\frac{a}{100} \times 2550\right) = 2142$$

$$\Rightarrow 25.5a = 2550 - 2142$$

$$\Rightarrow 25.5a = 408$$

$$\Rightarrow a = \frac{408}{25.5} = 16\%$$

\Rightarrow Ans - (A)

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Question 14

What is the value of $\sqrt{1054} + \sqrt{196} + \sqrt{169} + \sqrt{64}$?

A 33

B 37

C 29

D 31

Answer: A

Explanation:

$$\text{Expression : } \sqrt{1054} + \sqrt{196} + \sqrt{169} + \sqrt{64}$$

$$= \sqrt{1054 + 14 + 13 + 8}$$

$$= \sqrt{1089} = 33$$

\Rightarrow Ans - (A)

Question 15

X and Y undertook to do a piece of work for Rs 5400. X alone could do this work in 18 days and Y alone could do this work in 24 days. With the assistance of Z they finished the work in 8 days. What is the share (in Rs) of Z?

A 1200

B 1500

C 1600

D 1800

Answer: A

Explanation:

Let total work to be done = L.C.M (18,24) = 72 units

X alone could do this work in 18 days, \Rightarrow X's efficiency = $\frac{72}{18} = 4$ units/day

Similarly, Y's efficiency = $\frac{72}{24} = 3$ units/day

Let Z's 1 day's work = z units/day

According to ques,

$$\Rightarrow 8(4 + 3 + z) = 72$$

$$\Rightarrow 7 + z = \frac{72}{8} = 9$$

$$\Rightarrow z = 9 - 7 = 2$$

Now, ratio of efficiencies of X, Y and Z = 4 : 3 : 2

$$\Rightarrow Z\text{'s share in total amount of Rs. } 5400 = \frac{2}{4+3+2} \times 5400$$

$$= 2 \times 600 = \text{Rs. } 1200$$

\Rightarrow Ans - (A)

Question 16

A boat covers 12 km upstream in 4 hours and can cover the same distance downstream in 3 hours. What is the speed (in km/hr) of the boat in still water?

A 3.5

B 3

C 2.5

D 2

Answer: A

Explanation:

Let speed of boat in still water = x km/hr and speed of current = y km/hr

Speed upstream = $(x - y)$ km/hr

Using, speed = distance/time

$$\Rightarrow x - y = \frac{12}{4} = 3 \text{ -----(i)}$$

$$\text{Similarly, downstream speed} = x + y = \frac{12}{3} = 4 \text{ -----(ii)}$$

Adding equations (i) and (ii), we get : $2x = 3 + 4 = 7$

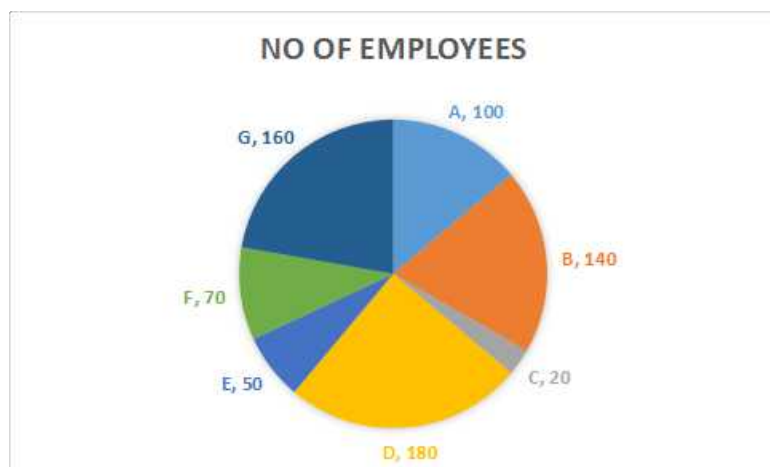
$$\Rightarrow x = \frac{7}{2} = 3.5 \text{ km/hr}$$

\Rightarrow Ans - (A)

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Instructions

The HR department of an MNC prepared a report. The pie chart from this report represents all the employees of the MNC and the languages that they speak. Study the diagram and answer the following questions.



Question 17

What is the language the most number of employees speak?

A F

B C

C D

D G

Answer: C

Explanation:

Most number of employees speak language D = 180

=> Ans - (C)

Question 18

What is the total number of employees of the MNC?

A 600

B 780

C 640

D 720

Answer: D

Explanation:

Total number of employees of the MNC

= 100 + 140 + 20 + 180 + 50 + 70 + 160

= 720

=> Ans - (D)

Question 19

The measure of the central angle of the sector representing language A is _____ degrees.

A 60

B 50

C 100

D 25

Answer: B

Explanation:

Number of employees speaking language A = 100

Total number of employees of the MNC

= 100 + 140 + 20 + 180 + 50 + 70 + 160 = 720

=> Required central angle = $\frac{100}{720} \times 360^\circ$

= $\frac{100}{2} = 50^\circ$

=> Ans - (B)

Question 20

If the average monthly salary of the employees of this MNC is \$5000 then what is the total of the salaries (in \$ millions) paid to all the employees of this MNC?

- A 3.6
- B 36
- C 18
- D 1.8

Answer: A

Explanation:

Total number of employees of the MNC

$$= 100 + 140 + 20 + 180 + 50 + 70 + 160 = 720$$

Average monthly salary of the employees of this MNC = \$5000

$$\Rightarrow \text{Total salaries (in \$ millions) paid to all the employees of this MNC} = 720 \times 0.005 = 3.6$$

\Rightarrow Ans - (A)

Instructions

For the following questions answer them individually

Question 21

The area and the breadth of a rectangle are 288cm^2 and 16 cm respectively. Find its perimeter (in cm).

- A 34
- B 68
- C 136
- D 102

Answer: B

Explanation:

Let length of rectangle = l cm and breadth, $b = 16$ cm

$$\text{Area} = lb = 288$$

$$\Rightarrow l = \frac{288}{16} = 18 \text{ cm}$$

$$\therefore \text{Perimeter} = 2(l + b)$$

$$= 2 \times (18 + 16) = 2 \times 34 = 68 \text{ cm}$$

\Rightarrow Ans - (B)

Question 22

Calculate the area (in cm^2) of a circle whose diameter is 35 cm.

- A 1925
- B 962.5
- C 857.5
- D 1715

Answer: B

Explanation:

$$\text{Radius of circle} = r = \frac{35}{2} = 17.5 \text{ cm}$$

$$\Rightarrow \text{Area} = \pi r^2$$

$$= \frac{22}{7} \times 17.5 \times 17.5$$

$$= 22 \times 2.5 \times 17.5 = 962.5 \text{ cm}^2$$

\Rightarrow Ans - (B)

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Question 23

Find the volume (incm^3) of a hemisphere of diameter 14 cm.

A 512.33

B 718.67

C 628

D 825

Answer: B

Explanation:

Diameter of hemisphere = 14 cm

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

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

$$= \frac{44 \times 49}{3} = 718.67 \text{ cm}^3$$

\Rightarrow Ans - (B)

Question 24

What is the value of $\left(\frac{\sqrt{2}}{3} - \text{Cosec}60^\circ\right)$?

A $\frac{(\sqrt{6}-6)}{3\sqrt{3}}$

B $\frac{(2-2\sqrt{3})}{\sqrt{3}}$

C $\frac{(1-\sqrt{6})}{\sqrt{2}}$

D $\frac{(4-\sqrt{3})}{2\sqrt{3}}$

Answer: A

Explanation:

$$\text{Expression : } \left(\frac{\sqrt{2}}{3} - \text{Cosec}60^\circ\right)$$

$$= \frac{\sqrt{2}}{3} - \frac{2}{\sqrt{3}}$$

$$= \frac{(\sqrt{6}-6)}{3\sqrt{3}}$$

=> Ans - (A)

Question 25

ΔXYZ is right angled at Y. If $\cot X = 5/12$, then what is the value of $\sec Z$?

A $\frac{5}{12}$

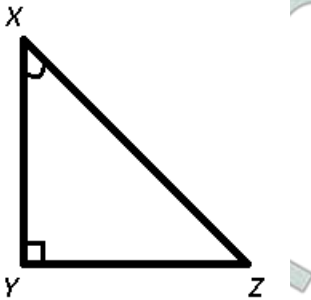
B $\frac{13}{5}$

C $\frac{13}{12}$

D $\frac{12}{5}$

Answer: C

Explanation:



Given : $\cot X = \frac{5}{12}$

Also, $\cot X = \frac{XY}{YZ} = \frac{5}{12}$

Let $XY = 5$ cm and $YZ = 12$ cm

Thus, in ΔXYZ , $\Rightarrow (XZ)^2 = (XY)^2 + (YZ)^2$

$\Rightarrow (XZ)^2 = (5)^2 + (12)^2$

$\Rightarrow (XZ)^2 = 25 + 144 = 169$

$\Rightarrow XZ = \sqrt{169} = 13$ cm

To find : $\sec Z = \frac{XZ}{YZ}$

$= \frac{13}{12}$

=> Ans - (C)

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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.

School : Education : : ? : ?

A Scalpel : Teacher

B Hospital : Treatment

C Teacher : School

D Class : College

Answer: B

Explanation:

Expression = School : Education :: ? : ?

The first is a primary source to receive second, i.e. school is used to get education, while hospitals are used for treatment.

=> Ans - (B)

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Question 27

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

5 : 125 :: 7 : ?

A 343

B 512

C 243

D 729

Answer: A

Explanation:

Expression = 5 : 125 :: 7 : ?

The second number is the cube of first number = $n : n^3$

Eg :- $(5)^3 = 125$

Similarly, $(7)^3 = 343$

=> Ans - (A)

Question 28

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

BGR : CIU :: HCY : ?

A IFC

B IEB

C JEC

D JFB

Answer: B

Explanation:

Expression = BGR : CIU :: HCY : ?

The pattern followed is :

B	G	R
(+1)	(+2)	(+3)
C	I	U

Similarly, for HCY : **IEB**

H	C	Y
(+1)	(+2)	(+3)
I	E	B

=> Ans - (B)

Question 29

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

- A Cup - Tea
- B Jug - Water
- C Bowl - Curd
- D Pen - Butter

Answer: D

Explanation:

Second is served in first, tea is served in a cup, water in jug and curd in a bowl, hence **Pen - Butter** is the odd one out.

=> 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 25 - 21
- B 39 - 35
- C 51 - 47
- D 93 - 87

Answer: D

Explanation:

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

But in the last option => $93 - 87 = 6$

Thus, (93 - 87) is the odd one out.

=> Ans - (D)

Question 31

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

- A CGJ
- B IMQ
- C OSW
- D JNR

Answer: A

Explanation:

(A) : C (+4 letters) = G (+3 letters) = J

(B) : I (+4 letters) = M (+4 letters) = Q

(C) : O (+4 letters) = S (+4 letters) = W

(D) : J (+4 letters) = N (+4 letters) = R

=> Ans - (A)

Question 32

Arrange the given words in the sequence in which they occur in the dictionary.

1. Tolerate
2. Toddle
3. Toast
4. Toilet
5. Tiring

A 51423

B 53241

C 25143

D 52143

Answer: B

Explanation:

As per the order of dictionary :

= Tiring -> Toast -> Toddle -> Toilet -> Tolerate

≡ 53241

=> Ans - (B)

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Question 33

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

18, 37, 76, 155, 314, ?

A 633

B 628

C 537

D 528

Answer: A

Explanation:

The pattern followed is :

$$18 \times 2 + 1 = 37$$

$$37 \times 2 + 2 = 76$$

$$76 \times 2 + 3 = 155$$

$$155 \times 2 + 4 = 314$$

$$314 \times 2 + 5 = 633$$

=> 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.
HJRN, JMTQ, LPVT, NSXW, ?

- A QWYY
- B QVAA
- C PVZZ
- D PVYZ

Answer: C

Explanation:

Series : HJRN, JMTQ, LPVT, NSXW, ?

The pattern followed in each letter of the terms is :

1st letter : H (+2 letters) = J (+2 letters) = L (+2 letters) = N (+2 letters) = P

2nd letter : J (+3 letters) = M (+3 letters) = P (+3 letters) = S (+3 letters) = V

3rd letter : R (+2 letters) = T (+2 letters) = V (+2 letters) = X (+2 letters) = Z

4th letter : N (+3 letters) = Q (+3 letters) = T (+3 letters) = W (+3 letters) = Z

Thus, missing term = **PVZZ**

=> Ans - (C)

Question 35

Raman remembers that his marriage is before 20th July and after 13th July. His mother remembers that Raman's marriage is after 16th July. His father remembers that Raman's marriage is before 19th July. On which date of July is Raman's marriage?

- A 15 or 16
- B 17 or 18
- C 15 or 16 or 17
- D 14 or 15 or 16

Answer: B

Explanation:

According to Raman, possible marriage dates in July = 14, 15, 16, 17, 18, 19

According to his mother = 17, 18, 19

According to his father = 14, 15, 16, 17, 18

Thus, common dates in all three equations = **17 or 18**

=> Ans - (B)

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Question 36

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

Premonition

- A Moon
- B More
- C Move
- D Note

Answer: C

Explanation:

The word PREMONITION does not contain any 'V', thus the term **Move** cannot be formed.

=> Ans - (C)

Question 37

In a certain code language, "PILOW" is written as "49352" and "TRAIN" is written as "78691". How is "PRAWN" written in that code language?

- A 97816
- B 69832
- C 48621
- D 29647

Answer: C

Explanation:

Codes for each letter is given :

- P -> 4
- R -> 8
- A -> 6
- W -> 2
- N -> 1

Thus, PRAWN : **48621**

=> Ans - (C)

Question 38

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

$$9 \times 18 \div 5 - 90 + 8 = ?$$

- A 35
- B 11
- C 15
- D 2

Answer: D

Explanation:

Expression : $9 \times 18 \div 5 - 90 + 8 = ?$

$$\equiv 9 + 18 \times 5 \div 90 - 8$$

$$= 9 + \frac{90}{90} - 8$$

$$= 9 + 1 - 8 = 2$$

=> Ans - (D)

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Question 39

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

$$24 + 4 - 20 \div 9 \times 5 = 31$$

A - and +

B \div and +

C \times and -

D \times and \div

Answer: B

Explanation:

Expression : $24 + 4 - 20 \div 9 \times 5 = 31$

(A) : - and +

$$\text{L.H.S.} = 24 - 4 + 20 \div 9 \times 5$$

$$= 20 + \frac{100}{9} = 31.11 \neq \text{R.H.S.}$$

(B) : \div and +

$$\text{L.H.S.} = 24 \div 4 - 20 + 9 \times 5$$

$$= 6 - 20 + 45 = 31 = \text{R.H.S.}$$

=> Ans - (B)

Question 40

If $5\#5 = -25$, $-4\#-3 = -12$ and $3\#-3 = 9$, then find the value of $4\#5 = ?$

A 49

B -56

C -17

D -20

Answer: D

Explanation:

Given : $5\#5 = -25$, $-4\#-3 = -12$ and $3\#-3 = 9$

If we replace '#' with ' \times ' and multiply the product with '-1', then we will get the desired result.

$$\text{Eg :- } (5 \times 5) \times (-1) = -25$$

$$\text{and } (-4 \times -3) \times (-1) = -12$$

$$\text{and } (3 \times -3) \times (-1) = 9$$

$$\text{Similarly, } (4 \times 5) \times (-1) = -20$$

=> Ans - (D)

Question 41

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

BBAAAA, ABAAAA, AABAAA, AAABBA, AAAABBA, _____.

- A BBAAAA
- B AABAAA
- C AAAAAB
- D ABAAAA

Answer: C

Explanation:

Expression : BBAAAA, ABAAAA, AABAAA, AAABBA, AAAABBA, _____.

The pattern followed is that in each term there are 5 A's and 2 B's and in each term, the B's are consecutive starting from first position and shifting one place to the right.

Thus, in the missing term, the last two terms will be BB = **AAAAAB**

=> Ans - (C)

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Question 42

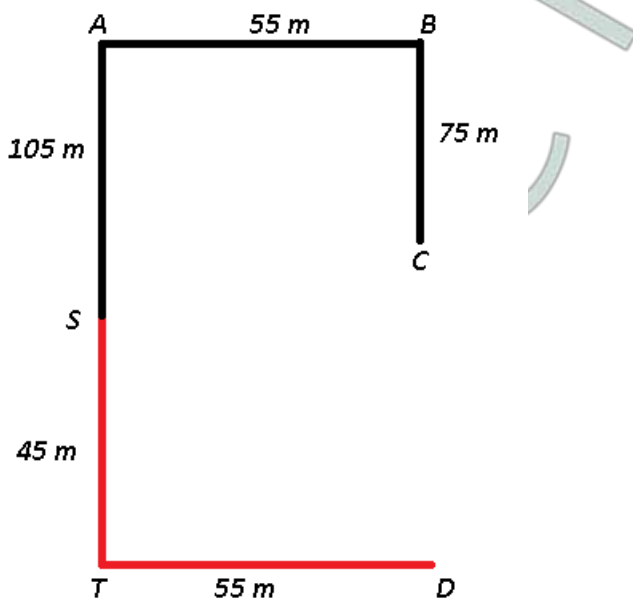
Chand and Dhyan start from the same point. Chand walks 105 m North, then turns East and walks 55 m, then turns to his right and walks 75 m. At the same time, Dhyan walks 45 m South, then turns to his left and walks 55 m. Where is Chand now with respect to the position of Dhyan?

- A 135 m North
- B 75 m North
- C 75 m South
- D 135 m South

Answer: B

Explanation:

Chand and Dhyan start from the same point S. Chand (black) walks 105 m North to A, then turns East and walks 55 m to reach B, then turns to his right and walks 75 m southwards to point C. At the same time, Dhyan (red) walks 45 m South, then turns to his left and walks 55 m eastwards to reach point D.



$$\Rightarrow CD = (105 - 75) + 45 = 75 \text{ m}$$

\therefore Chand is **75 m north** with respect to the position of Dhyani.

\Rightarrow Ans - (B)

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: Some burgers are fast foods

Statement II: Some sandwiches are burgers

Conclusion I: No fast foods are sandwiches

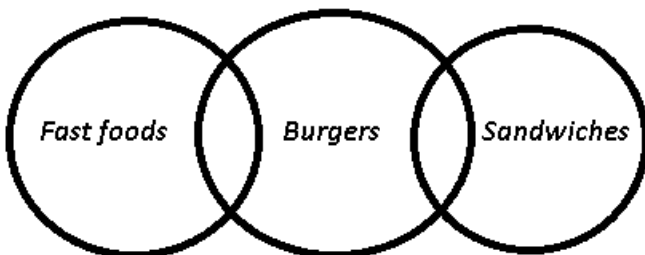
Conclusion II: Some fast foods are burgers

- 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 fast foods are sandwiches = may or may not be true

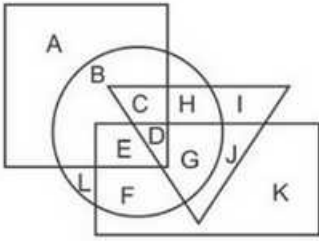
Conclusion II: Some fast foods are burgers = true

Thus, only conclusion II follows.

=> Ans - (B)

Question 44

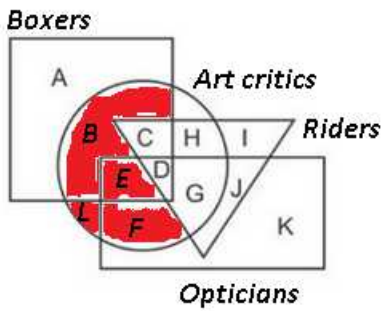
In the following figure, rectangle represents Opticians, circle represents Art critics, triangle represents Riders and square represents Boxers. Which set of letters represents Art critics who are not Riders?



- A BLEF
- B IJ
- C CHDG
- D EDGJ

Answer: A

Explanation:



Art critics who are not Riders are represented by = BLEF

=> 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.
CPI, AME, YJA, GWG, ?

- A UCT
- B VDT
- C VCS
- D UDS

Answer: D

Explanation:

Series : CPI, AME, YJA, GWG, ?

The pattern followed in each letter of the terms is :

1st letter : C (-2 letters) = A (-2 letters) = Y (-2 letters) = W (-2 letters) = U

2nd letter : P (-3 letters) = M (-3 letters) = J (-3 letters) = G (-3 letters) = D

3rd letter : I (-4 letters) = E (-4 letters) = A (-4 letters) = W (-4 letters) = S

Thus, missing term = **UDS**

=> Ans - (D)

Question 46

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

44, 40, 36, ?, 28, 24

A 30

B 32

C 34

D 29

Answer: B

Explanation:

'4' is subtracted from all the numbers.

$$44 - 4 = 40$$

$$40 - 4 = 36$$

$$36 - 4 = \mathbf{32}$$

$$32 - 4 = 28$$

$$28 - 4 = 24$$

=> Ans - (B)

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 (8, 23, 15)

B (12, 35, 23)

C (15, 44, 31)

D (17, 50, 33)

Answer: C

Explanation:

The numbers are of the form : $(x, 3x - 1, 2x - 1)$

But in the third option, we have $= 2 \times 15 - 1 = 29 \neq 31$

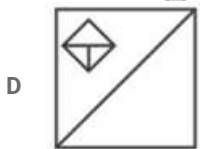
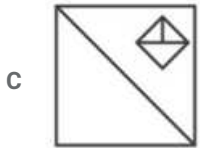
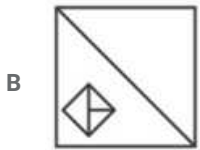
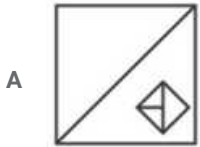
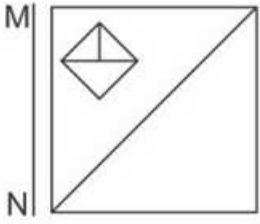
Thus, (15, 44, 31) is the odd one out.

=> Ans - (C)

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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: C

Explanation:

A vertical mirror is placed, so the object on the left will appear right in reverse position and vice-versa.

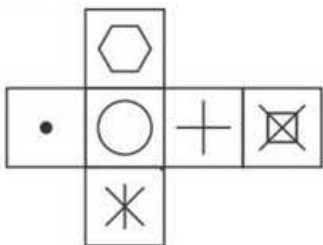
So the diagonal originating from top right will now appear at top left, thus the first and last options will be eliminated.

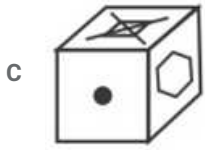
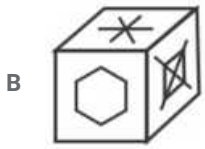
Also, in the question figure, the rhombus at top left will appear at top right side, hence third option is the right image.

=> Ans - (C)

Question 49

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

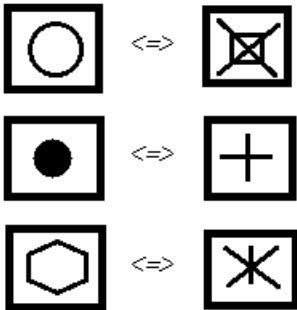




Answer: B

Explanation:

When we fold the given figure, the square with a 'circle' sign will become the base of the cube and the square having 'X' sign outside it 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 second option is not possible.

=> Ans - (B)

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 fibula are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, for example 'F can be represented by 14, 31 etc and 'U' can be represented by 86, 97 etc. Similarly, you have to identify the set for the word 'SACK'.

Matrix - I

	0	1	2	3	4
0	F	C	I	L	H
1	K	E	A	D	F
2	M	C	F	M	E
3	C	F	M	M	E
4	M	E	K	E	C

Matrix - II

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

A 97,12,21,42

B 42,67,10,55

C 30,55,42,68

D 12,77,21,68

Answer: A

Explanation:

(A) : 97,12,21,42 = SACK

(B) : 42,67,10,55 = KPKR

(C) : 30,55,42,68 = CRKY

(D) : 12,77,21,68 = AQCK

=> Ans - (A)

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English

Instructions

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'.

Question 51

Excessive use of pesticides (a)/ and contamination of soil (b)/ have negatively effected soil output. (c)/ No error (d)

A a

B b

C c

D d

Answer: C

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Question 52

The truth is that when people seeing you zoned into your work and (a)/ in harmony with yourself, (b)/ they come to distract you. (c)/ No error (d)

A a

B b

C c

D d

Answer: A

Instructions

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.

Question 53

This is Hrithik Roshan's autograph, ____?

A hasn't it

B hasn't he

C isn't he

D isn't it

Answer: D

Question 54

The many _____ of Dalhousie have made it popular among tourists.

- A signs
- B attractions
- C entertainment
- D disadvantages

Answer: B

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Instructions

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

Question 55

Repugnance

- A Esteem
- B Respect
- C Aversion
- D Sympathy

Answer: C

Question 56

Reminisce

- A Remember
- B Discover
- C Forget
- D Hang

Answer: A

Instructions

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

Question 57

Vanguard

- A Forefront
- B Follower
- C Leader

D Pioneer

Answer: B

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Question 58

Effervescent

A Bouncy

B Lively

C Stale

D Resilient

Answer: C

Instructions

For the following questions answer them individually

Question 59

Rearrange the parts of the sentence in correct order.

Climatic information can

P : be obtained through an

Q : in tree growth

R : understanding of changes

A PQR

B RPQ

C PRQ

D QRP

Answer: C

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 fans invited the cricketer.

A The cricketer was invited by the fans.

B The cricketer received an invitation by the fans.

C The cricketer is invited by the fans.

D The cricketer was invite by the fans.

Answer: A

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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.

"My hour has come." thought the king.

- A The king thought that his hour had come.
- B His hour had come thought the king.
- C The king thought that his hour had come.
- D The king wondered if his hour has come.

Answer: C

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 Ceiling
- B Cieling
- C Ceeling
- D Crileing

Answer: A

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.

Starting late-2014, scientists of the National Aeronautics and Space Administration (NASA) working _____ satellite data tracking the rift found that the defect in the Larsen C was growing _____. By 2016 the crack became 70 miles long and 300 feet _____. By January 2017 it measured 109 miles in length and 1,500 metres in breadth. On July 12, it broke. The broken shelf, now _____ official iceberg, was massive, indeed the _____-ever such iceberg, weighing 1.1 trillion tons and measuring 2,200 square miles.

Question 63

Administration (NASA) working _____ satellite data tracking

- A besides
- B along
- C by
- D with

Answer: D

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Question 64

was growing _____. By 2016 the

- A steadily

- B steady
- C instead
- D instead of

Answer: A

Question 65

and 300 feet _____. By January 2017

- A width
- B length
- C breadth
- D wide

Answer: D

Question 66

shelf, now _____ official iceberg

- A a
- B an
- C the
- D once

Answer: B

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Question 67

indeed the _____-ever such iceberg,

- A big
- B bigger
- C biggest
- D the big

Answer: C

Instructions

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

Question 68

Cut corners

- A Remove the sharp edges now if you don't want to get hurt later.
- B One has to sacrifice to achieve one's goals.

- C Even a coward when cornered musters strength to fight back.
- D Do something perfunctorily so as to save time or money.

Answer: D

Question 69

The tail is wagging the dog

- A A situation where a small good thing makes everyone happy.
- B The less important or subsidiary factor, person, or thing dominates a situation.
- C A person who is always happy to meet you.
- D Even smaller tasks become important if the whole project is to succeed.

Answer: B

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Instructions

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

Question 70

The state or quality of being holy, sacred, or saintly

- A Base
- B Sanctity
- C Vile
- D Heinous

Answer: B

Question 71

Relating to the study of the nature of god and religious belief

- A Scepticism
- B Atheism
- C Impiety
- D Theological

Answer: D

Instructions

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".

Question 72

By the time we set out, the sun (sit) pretty in the blue sky.

- A was sitting

- B had sitting
- C was sit
- D no improvement

Answer: A

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Question 73

The greeting card (also reducing) the need to sit down and write loving messages to our dear ones.

- A has also reduce
- B had also reduce
- C has also reduced
- D no improvement

Answer: C

Instructions

For the following questions answer them individually

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.

In the entire

- A : process of discoveries
- B : and development, ethics
- C : was exiled

- A CBA
- B ABC
- C CAB
- D BCA

Answer: B

Question 75

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

- A revarberate
- B reverberate
- C reverberete
- D revarberete

Answer: B

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General Awareness

Instructions

For the following questions answer them individually

Question 76

For an inferior good demand falls when _____.

- A Piece rise
- B Price falls
- C Income rise
- D Income falls

Answer: C

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Question 77

Which of the following is NOT a Nuclear Power Centre?

- A Narora
- B Kakrapara
- C Chamera
- D Kota

Answer: C

Question 78

The 'noble tradition' was related to which of the following the dynasties?

- A Pal
- B Pratihara
- C Rashtrakuta
- D Sen

Answer: D

Question 79

Alauddin Khilji's first military operation was against which of the following?

- A Gujarat
- B Ranthambore
- C Devagiri
- D Chittaur

Answer: B

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Question 80

Which port is situated on the southern tip of the Suez Canal?

- A Port Suez
- B Port Said
- C Ismailia
- D Port Ibrahim

Answer: A

Question 81

The Machkund project is a joint project of which two states?

- A West Bengal and Odisha
- B West Bengal and Bihar
- C Odisha and Andhra Pradesh
- D Karnataka and Andhra Pradesh

Answer: C

Question 82

Who was the exponent of Yog Darshana?

- A Kapil
- B Gautam
- C Patanjali
- D Jamini

Answer: C

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Question 83

At which of the following places the 5th Global Conference on Cyber Space (GCCS) was held on November 23-24, 2017?

- A London
- B New Delhi
- C Sanya
- D Tokyo

Answer: B

Question 84

Who among the following was honoured with the IAAF male Athlete of year Award for 2017 at a award ceremony in Monaco in November 2017?

- A Mutaz Essa Barshim
- B Usain Bolt
- C Mo Farah
- D Wayde van Niekerk

Answer: A

Question 85

What is the national sport of Pakistan?

- A Cricket
- B Football
- C Hockey
- D Table Tennis

Answer: C

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Question 86

What is the purpose of adding Gypsum to the cement?

- A For lubrication
- B To slow down its rate of setting
- C To increase its rate of setting
- D To make it strong

Answer: B

Question 87

Which of the following has highest penetration power?

- A α - radiations
- B β - radiations
- C γ - radiations
- D All have same penetration power.

Answer: C

Question 88

Which of the following organ of the government refers to a smaller group of people who are responsible for implementing laws and running the government?

- I. The Judiciary
- II. The Executives
- III. The Legislature

- A Only I
- B Only II
- C Only III
- D No option is correct.

Answer: B

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Question 89

In which of the following countries fascism was originated?

- A Italy
- B Japan
- C France
- D Russia

Answer: A

Question 90

Along the path of the vas deferens which glands add their secretions in the sperms?

- I. Prostate
- II. Seminal vesicles
- III. Scrotum

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

Answer: A

Question 91

Which among the following constituents of xylem is/are tubular structure(s)?

- I. Tracheids
- II. Vessels
- III. Xylem fibres

- A Only I
- B Only II

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

Answer: C

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Question 92

Indian Government is hopeful of bringing at least one crore subscribers by March 2018 under the Atal Pension Yojana (APY). What is the age limit for APY?

- A 21 to 60 years
- B 18 to 40 years
- C 18 to 45 years
- D 21 to 70 years

Answer: B

Question 93

What is the duration of the world's shortest X-ray laser has been successfully created by the scientists?

- A 39 nanoseconds
- B 43 attoseconds
- C 15 picoseconds
- D 57 microseconds

Answer: C

Question 94

In April 2017, on the birth anniversary of Dr. B. R. Ambedkar which body announced the winners of Lucky Draw Schemes like 'Lucky Grahak Yojana' and 'Digi-Dhan Vyapar Yojana'?

- A Reserve Bank of India
- B State Bank of India
- C National Payments Corporation of India
- D No option is correct.

Answer: C

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Question 95

Where was the 7th edition of Rashtriya Sanskriti Mahotsava held from 14 January to 20 January, 2018?

- A New Delhi
- B Bengaluru

C Jaipur

D Kanpur

Answer: B

Question 96

Find the potential energy gained by a body of mass 60 kg, if it is raised by 12 m. ($g = 10\text{m/s}^2$)

A 7200

B 50

C 3600

D 25

Answer: A

Question 97

Light is a _____ wave.

A longitudinal

B elastic

C transverse

D mechanical

Answer: C

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Question 98

Terrestrial life-forms require _____ water for life processes.

A fresh

B saline

C salt

D sour

Answer: A

Question 99

Which of the statements given below are correct?

A) In 2017, Virat Kohli captained the IPL team Rising Pune Supergiant.

B) In 2017 Pro Kabaddi League, Surjeet Singh played for Bengal Warriors.

C) United Kingdom hosted the Table Tennis 2017 ITTF Women's World Cup.

A Only B

B Both A and C

C A, B and C

D No option is correct.

Answer: A

Question 100

_____ among the following is not a type of JavaScript.

A text/JavaScript

B text/ecmascript

C text/vbscript

D JavaScript /vbscript

Answer: D

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