



SSC CHSL 26 March 2018 Morning Shift

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Instructions

For the following questions answer them individually

Question 1

Find the number of prime factor of 1024.

- A 9
- B 10
- C 11
- D 12

Answer: B

Explanation:

Prime factorisation of $1024 = (2)^{10}$

Thus, number of prime factors = 10

=> Ans - B

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Question 2

Which of the following is NOT prime number?

- A 251
- B 571
- C 331
- D 341

Answer: D

Explanation:

Prime factors of 341 = 11 and 31

Hence, among the given numbers, **341** is not prime.

=> Ans - (D)

Question 3

What is the value of $x^4 + y^4$ when the value of $x^3 + y^3 = 8$ and $x + y = 2$?

- A 2
- B 8
- C 16
- D 32

Answer: C

Explanation:

Given : $x^3 + y^3 = 8$ -----(i)

and $x + y = 2$ -----(ii)

Cubing both sides, we get :

$$\Rightarrow (x + y)^3 = (2)^3$$

$$\Rightarrow x^3 + y^3 + 3xy(x + y) = 8$$

Substituting values from equations (i) and (ii),

$$\Rightarrow 8 + 3xy(2) = 8$$

$$\Rightarrow 6xy = 8 - 8 = 0$$

$$\Rightarrow xy = 0$$
 -----(iii)

Now, squaring equation (ii), $\Rightarrow (x + y)^2 = (2)^2$

$$\Rightarrow x^2 + y^2 + 2xy = 4$$

$$\Rightarrow x^2 + y^2 = 4 \quad [\because xy = 0]$$

Similarly, again squaring both sides, we get :

$$\Rightarrow x^4 + y^4 + 2x^2y^2 = 16$$

$$\Rightarrow x^4 + y^4 + 2(xy)^2 = 16$$

$$\Rightarrow x^4 + y^4 = 16$$

\Rightarrow Ans - (C)

Question 4

Determine the value of $(y - \frac{1}{y})^2$ when $y^4 + \frac{1}{y^4} = 34$

A 1

B 2

C 3

D 4

Answer: D

Explanation:

Given : $y^4 + \frac{1}{y^4} = 34$

$$\Rightarrow (y^2 + \frac{1}{y^2})^2 - 2(y^2)(\frac{1}{y^2}) = 34$$

$$\Rightarrow (y^2 + \frac{1}{y^2})^2 = 34 + 2 = 36$$

$$\Rightarrow y^2 + \frac{1}{y^2} = \sqrt{36} = 6$$

$$\Rightarrow (y - \frac{1}{y})^2 + 2(y)(\frac{1}{y}) = 6$$

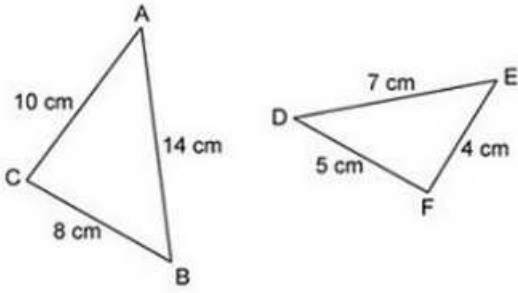
$$\Rightarrow (y - \frac{1}{y})^2 = 6 - 2 = 4$$

\Rightarrow Ans - (D)

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Question 5

Which of the following condition is TRUE about the similarity of triangle ABC and DEF given below?



- A $\angle A = \angle D, \angle B = \angle E, \angle C = \angle F$
- B $\angle A = \angle E, \angle B = \angle D, \angle C = \angle F$
- C $\angle A = \angle F, \angle B = \angle D, \angle C = \angle E$
- D None of these

Answer: A

Explanation:

The ratio of sides in $\triangle ABC$ and $\triangle DEF$

$$= \frac{AB}{DE} = \frac{BC}{EF} = \frac{AC}{DF}$$

$$= \frac{14}{7} = \frac{8}{4} = \frac{10}{5} = 2$$

Since, the ratio of corresponding sides are equal, $\Rightarrow \triangle ABC \sim \triangle DEF$

$$\therefore \angle A = \angle D, \angle B = \angle E, \angle C = \angle F$$

\Rightarrow Ans - (A)

Question 6

The radius of the circle is 14 cm, an arc is subtend an angle 54 degree at center. Find the length of the arc (in cm).

- A 12.8
- B 13.2
- C 13.8
- D 14.2

Answer: B

Explanation:

Radius of circle = 14 cm and angle subtended by arc = 54°

$$\text{Length of arc} = \frac{\theta}{360^\circ} \times 2\pi r$$

$$= \frac{54}{360} \times 2 \times \frac{22}{7} \times 14$$

$$= \frac{3}{20} \times 22 \times 4$$

$$= \frac{66}{5} = 13.2 \text{ cm}$$

\Rightarrow Ans - (B)

Question 7

If 5% of $(P + Q) = 20\%$ of $(P - Q)$, then P is what percentage of Q?

- A 133.33
- B 166.66
- C 150
- D 171.33

Answer: B

Explanation:

Given : 5% of (P + Q) = 20% of (P - Q)

$$\Rightarrow \frac{5}{100} \times (P + Q) = \frac{20}{100} \times (P - Q)$$

$$\Rightarrow P + Q = 4P - 4Q$$

$$\Rightarrow 4P - P = Q + 4Q$$

$$\Rightarrow 3P = 5Q$$

$$\Rightarrow \frac{P}{Q} = \frac{5}{3}$$

Thus, required % = $\frac{5}{3} \times 100 = 166.66\%$

\Rightarrow Ans - (B)

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Question 8

What number should be added to each of 4, 16, 18 and 58 so that the resulting numbers will be in proportion in the given order?

- A 2
- B 3
- C 4
- D 1

Answer: A

Explanation:

Let the number added be = x

Thus, for the new numbers to be in proportion, we have :

$$\Rightarrow \frac{4+x}{16+x} = \frac{18+x}{58+x}$$

$$\Rightarrow (4 + x)(58 + x) = (18 + x)(16 + x)$$

$$\Rightarrow x^2 + 62x + 232 = x^2 + 34x + 288$$

$$\Rightarrow 62x - 34x = 288 - 232$$

$$\Rightarrow 28x = 56$$

$$\Rightarrow x = \frac{56}{28} = 2$$

\Rightarrow Ans - (A)

Question 9

In 250 litres mixture of soda and water the ratio of amount of soda to that of water is 7 : 18. In order to make this ratio 2 : 3, how many more litres of soda should be added?

- A 37.5
- B 42.5
- C 45
- D 50

Answer: D

Explanation:

Amount of soda in 250 litres mixture = $\frac{7}{7+18} \times 250 = 70$ litres

=> Amount of water = $250 - 70 = 180$ litres

Let x litres of soda is added.

$$\Rightarrow \frac{70+x}{180} = \frac{2}{3}$$

$$\Rightarrow 210 + 3x = 360$$

$$\Rightarrow 3x = 360 - 210 = 150$$

$$\Rightarrow x = \frac{150}{3} = 50$$

∴ **50 litres** of soda should be added.

=> Ans - (D)

Question 10

The average of three numbers is 40. First number is $\frac{4}{3}$ of the third number. If third number is 20 less than second number, then what is the value of second number?

- A 60
- B 50
- C 10
- D 20

Answer: B

Explanation:

Let the third number = $3x$

$$\Rightarrow \text{First number} = \frac{4}{3} \times 3x = 4x$$

$$\text{Second number} = 3x + 20$$

$$\text{Sum of the three numbers} = 40 \times 3 = 120$$

According to ques,

$$\Rightarrow (3x) + (4x) + (3x + 20) = 120$$

$$\Rightarrow 10x = 120 - 20 = 100$$

$$\Rightarrow x = \frac{100}{10} = 10$$

$$\therefore \text{Second number} = (3 \times 10) + 20 = 50$$

=> Ans - (B)

Question 11

A sum of Rs 4000 becomes Rs 6000 in 1 year at a certain rate of compound interest. What will be the sum (in Rs) after 4 years?

- A 16250
- B 12000
- C 20250
- D 19500

Answer: C

Explanation:

Principal sum = Rs. 4000 and time period = 1 year

Let rate of interest = $r\%$

=> Amount after compound interest = Rs. 6000

$$\Rightarrow P\left(1 + \frac{R}{100}\right)^T = 6000$$

$$\Rightarrow 4000\left(1 + \frac{r}{100}\right)^1 = 6000$$

$$\Rightarrow 1 + \frac{r}{100} = \frac{6000}{4000} = 1.5$$

$$\Rightarrow \frac{r}{100} = 1.5 - 1 = 0.5$$

$$\Rightarrow r = 0.5 \times 100 = 50\%$$

$$\therefore \text{Amount after 4 years} = 4000\left(1 + \frac{50}{100}\right)^4$$

$$= 4000\left(1 + \frac{1}{2}\right)^4 = 4000\left(\frac{3}{2}\right)^4$$

$$= 4000 \times \frac{81}{16}$$

$$= 250 \times 81 = \text{Rs. } 20,250$$

=> Ans - (C)

Question 12

Mukesh sells two shirts. The cost price of the first shirt is equal to the selling price of the second shirt. The first shirt is sold at a profit of 30% and the second shirt is sold at a loss of 30%. What is the ratio of the selling price of the first shirt to the cost price of the second shirt?

- A 91:100
- B 100:91
- C 31:50
- D 50:31

Answer: A

Explanation:

Let cost price of 1st shirt = Rs. $100x$

Profit % = 30%

$$\Rightarrow \text{Selling price of 1st shirt} = 100x + \left(\frac{30}{100} \times 100x\right) = \text{Rs. } 130x$$

Also, selling price of 2nd shirt = Rs. $100x$

Loss % = 30%

$$\Rightarrow \text{Cost price of 2nd shirt} = \frac{100x}{(100-30)} \times 100 = \text{Rs. } \frac{1000x}{7}$$

$$\therefore \text{Required ratio} = \frac{130x}{100x} \\ = (13 \times 7) : 100 = 91 : 100$$

=> Ans - (A)

Question 13

The marked price of an article is 60% more than its cost price. What maximum discount percentage can be offered by the shopkeeper to sell his article at no profit or no loss?

- A 37.5
- B 62.5
- C 50
- D 25

Answer: A

Explanation:

Let cost price = Rs. $100x$

Markup % = 60%

$$\Rightarrow \text{Marked price} = 100x + \left(\frac{60}{100} \times 100x\right) = \text{Rs. } 160x$$

To have no profit/loss, => Selling price = Rs. $100x$

$$\therefore \text{Discount \%} = \frac{(160x - 100x)}{160x} \times 100$$

$$= \frac{60}{16} = 37.5\%$$

=> Ans - (A)

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Question 14

If 169 is subtracted from the square of a number, then the result obtained is 7056. What is the number?

- A 75
- B 78
- C 85
- D 87

Answer: C

Explanation:

Let the number be x

According to ques,

$$\Rightarrow x^2 - 169 = 7056$$

$$\Rightarrow x^2 = 7056 + 169 = 7225$$

$$\Rightarrow x = \sqrt{7225} = 85$$

=> Ans - (C)

Question 15

Working 5 hours a day, Shivam can read a book in 24 days. How many hours a day should he work so as to finish the same work in 8 days?

- A 12
- B 18
- C 15
- D 21

Answer: C

Explanation:

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

Let number of hours required = h

According to ques, $\Rightarrow 24 \times 5 = 8 \times h$

$$\Rightarrow h = \frac{120}{8} = 15 \text{ hours}$$

\Rightarrow Ans - (C)

Question 16

Two trains are moving in opposite directions with the same speed. If the length of each train is 120 metres and they cross each other in 12 seconds, then what is the speed (in km/hr) of each train?

- A 36
- B 45
- C 80
- D 60

Answer: A

Explanation:

Length of both trains = $120 + 120 = 240$ m

Let speed of each train = x m/s

The trains are moving in opposite directions, thus relative speed = $(x + x) = 2x$ m/s

Using, speed = distance/time

$$\Rightarrow 2x = \frac{240}{12} = 20$$

$$\Rightarrow x = \frac{20}{2} = 10$$

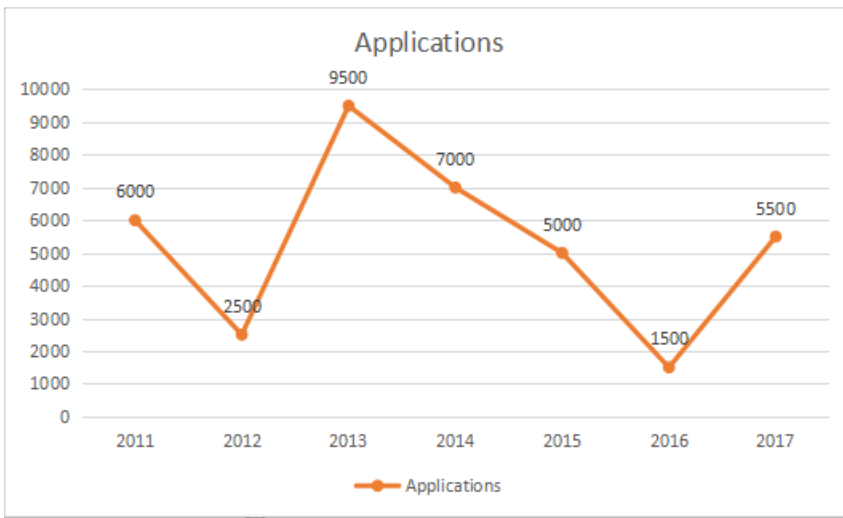
\therefore Speed of each train (in km/hr) = $10 \times \frac{18}{5} = 36$ km/hr

\Rightarrow Ans - (A)

SSC CHSL Important Questions and Answers (Download PDF)

Instructions

The line graph shows the number of candidates who applied for admission to a certain college. Study the diagram and answer the following questions.



Question 17

In which year were applications greater than that of the previous year?

- A 2012
- B 2014
- C 2015
- D 2013

Answer: D

Explanation:

In **2013** and **2017**, applications were greater than that of the previous year.

=> Ans - (D)

Question 18

What was the difference in applications between the years 2017 and 2012?

- A 3500
- B 2000
- C 2500
- D 3000

Answer: D

Explanation:

Number of applications in 2017 = 5500

Number of applications in 2012 = 2500

=> Required difference = $5500 - 2500 = 3000$

=> Ans - (D)

Question 19

Applications in 2014 were greater than that in 2015 by _____.

- A 50%

- B 20%
- C 28.5%
- D 40%

Answer: D

Explanation:

Number of applications in 2014 = 7000

Number of applications in 2015 = 5000

$$\Rightarrow \text{Required \%} = \frac{(7000-5000)}{5000} \times 100$$

$$= \frac{2000}{5000} = 40\%$$

\Rightarrow Ans - (D)

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Question 20

If each applicant has to submit Rs 500 as application fees how much did the college collect (in Rs lakhs) as application fees in the last three years?

- A 6
- B 50
- C 60
- D 5

Answer: C

Explanation:

Total applications in the last three years

$$= 5000 + 1500 + 5500 = 12000$$

Fee of 1 application = Rs. 500

$$\text{Total application fee (in Rs lakhs) in the last three years} = 12000 \times 0.05 = 60$$

\Rightarrow Ans - (C)

Instructions

For the following questions answer them individually

Question 21

The area of a square is 72.25cm^2 . Find its perimeter (in cm).

- A 68
- B 44
- C 34
- D 88

Answer: C

Explanation:

Let side of square = s cm

$$\Rightarrow \text{Area} = s^2 = 72.25$$

$$\Rightarrow s = \sqrt{72.25} = 8.5 \text{ cm}$$

$$\therefore \text{Perimeter of square} = 4s = 4 \times 8.5 = 34 \text{ cm}$$

\Rightarrow Ans - (C)

Question 22

Find the circumference (in cm) of a circle of radius 17.5 cm.

A 140

B 110

C 38

D 76

Answer: B

Explanation:

Radius of circle = $r = 17.5$ cm

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

$$= 2 \times \frac{22}{7} \times 17.5$$

$$= 44 \times 2.5 = 110 \text{ cm}$$

\Rightarrow Ans - (B)

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Question 23

The curved surface area and the diameter of a right circular cylinder are 352 cm^2 and 14 cm respectively. Find its height (in cm).

A 9

B 8

C 10

D 11

Answer: B

Explanation:

Let height of cylinder = h cm and radius, $r = 7$ cm

$$\text{Curved surface area} = 2\pi r h = 352$$

$$\Rightarrow 2 \times \frac{22}{7} \times 7 \times h = 352$$

$$\Rightarrow 44h = 352$$

$$\Rightarrow h = \frac{352}{44} = 8 \text{ cm}$$

\Rightarrow Ans - (B)

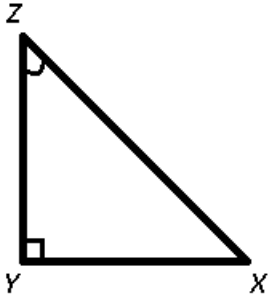
Question 24

ΔXYZ is right angled at Y. If $m\angle Z = 60^\circ$, then find the value of $(\cot X - 1/3)$.

- A $\frac{(3\sqrt{3}-1)}{3}$
- B $\frac{(2\sqrt{3}-\sqrt{6})}{2\sqrt{2}}$
- C $\frac{-5}{3}$
- D $\frac{(2-\sqrt{3})}{2\sqrt{3}}$

Answer: A

Explanation:



Sum of angles of $\triangle XYZ = \angle X + \angle Y + \angle Z = 180^\circ$

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

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

To find: $(\cot X - \frac{1}{3})$

$$= \cot(30^\circ) - \frac{1}{3}$$

$$= \sqrt{3} - \frac{1}{3}$$

$$= \frac{(3\sqrt{3}-1)}{3}$$

\Rightarrow Ans - (A)

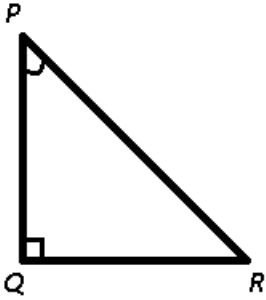
Question 25

$\triangle PQR$ is right angled at Q. If $\sin P = 12/13$, then what is the value of $\tan R$?

- A 5/13
- B 13/5
- C 13/12
- D 5/12

Answer: D

Explanation:



Given : $\sin P = \frac{12}{13}$

Also, $\sin P = \frac{QR}{PR} = \frac{12}{13}$

Let $QR = 12$ cm and $PR = 13$ cm

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

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

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

$\Rightarrow PQ = \sqrt{25} = 5$ cm

To find : $\tan R = \frac{PQ}{QR}$

$= \frac{5}{12}$

\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.

Paper : Pulp :: ? : ?

- A Sack : Jute
- B Gold : Jewellery
- C Cloth : Garment
- D Car : Vehicle

Answer: A

Explanation:

Expression = Paper : Pulp :: ? : ?

The second is used to make first, i.e. paper is made from pulp, similarly sack is made from jute.

\Rightarrow Ans - (A)

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Question 27

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

48 : 41 :: ? : ?

A 68 : 63

B 84 : 75

C 74 : 67

D 92 : 87

Answer: C

Explanation:

Expression = $48 : 41 :: ? : ?$

The difference between the numbers = $48 - 41 = 7$

Similarly, only the difference between $74 - 67 = 7$

=> Ans - (C)

Question 28

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

DLQ : XFK :: RGM : ?

A LBH

B MBG

C LAG

D MAH

Answer: C

Explanation:

Expression = DLQ : XFK :: RGM : ?

The pattern followed is :

D	L	Q
(-6)	(-6)	(-6)
X	F	K

Similarly, for RGM : **LAG**

R	G	M
(-6)	(-6)	(-6)
L	A	G

=> Ans - (C)

Question 29

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

A Valley

B Lake

C Ocean

D Creek

Answer: A

Explanation:

Lake, ocean and creek, all contain water, but valley is an area of land, hence **valley** is the odd one out.

=> Ans - (A)

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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 16 - 5

B 24 - 6

C 32 - 8

D 88 - 22

Answer: A

Explanation:

The first number is 4 times the second number.

$$16 \div 4 = 4 \neq 5$$

$$24 \div 4 = 6$$

$$32 \div 4 = 8$$

$$88 \div 4 = 22$$

=> Ans - (A)

Question 31

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

A ORU

B CFI

C HKN

D FJM

Answer: D

Explanation:

(A) : O (+3 letters) = R (+3 letters) = U

(B) : C (+3 letters) = F (+3 letters) = I

(C) : H (+3 letters) = K (+3 letters) = N

(D) : F (+4 letters) = J (+3 letters) = M

=> Ans - (D)

Question 32

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

1. Frantic
2. Fraud
3. Fountain
4. Frank
5. Frail

A 54321

B 52314

C 35412

D 24153

Answer: C

Explanation:

As per the order of dictionary :

= Fountain -> Frail -> Frank -> Frantic -> Fraud

≡ 35412

=> Ans - (C)

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Question 33

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

43, 58, 88, 133, ?, 268

A 193

B 203

C 163

D 218

Answer: A

Explanation:

Multiples of 15 are added.

$$43 + 15 = 58$$

$$58 + 30 = 88$$

$$88 + 45 = 133$$

$$133 + 60 = \mathbf{193}$$

$$193 + 75 = 268$$

=> 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.

FJ, GK, HL, ?, JN

A HN

- B HL
- C LN
- D IM

Answer: D

Explanation:

Series : FJ, GK, HL, ?, JN

The pattern followed in each letter of the terms is :

1st letter : F (+1 letter) = G (+1 letter) = H (+1 letter) = I (+1 letter) = J

2nd letter : J (+1 letter) = K (+1 letter) = L (+1 letter) = M (+1 letter) = N

Thus, missing term = **IM**

=> Ans - (D)

Question 35

Among four boys, age of Ashish is thrice the age of Varun. Age of Arvind is 1/2 of the age of Varun. Amit is 8 years elder to Varun. Who is the second eldest?

- A Amit
- B Ashish
- C Arvind
- D Varun

Answer: A

Explanation:

Let Varun's age = 10 years

=> Arvind's age = $\frac{10}{2} = 5$ years

=> Ashish's age = $3 \times 10 = 30$ years

=> Amit's age = $8 + 10 = 18$ years

∴ **Amit** is the second eldest.

=> Ans - (A)

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Question 36

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

Travelling

- A Train
- B Rain
- C Van
- D Track

Answer: D

Explanation:

The word TRAVELLING does not contain any 'C' or 'K', thus the term **Track** cannot be formed.

=> Ans - (D)

Question 37

In a certain code language, "TUBE" is written as "202125" and "PINCH" is written as "1691438". How is "MARC" written in that code language?

- A 131183
- B 141162
- C 131184
- D 121183

Answer: A

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.

Eg :- TUBE = 20,21,2,5 -> 202125

PINCH = 16,9,14,3,8 -> 1691438

Similarly, MARC = 13,1,18,3 -> **131183**

=> Ans - (A)

Question 38

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

$$8 \div 6 - 5 + 70 \times 10 = ?$$

- A 37
- B 9
- C 17
- D 10

Answer: A

Explanation:

Expression : $8 \div 6 - 5 + 70 \times 10 = ?$

$$\equiv 8 - 6 + 5 \times 70 \div 10$$

$$= 2 + (5 \times 7)$$

$$= 2 + 35 = 37$$

=> Ans - (A)

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Question 39

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

$$16 \div 6 + 35 \times 9 - 15 = 31$$

- A + and x
- B - and ÷

C \div and +

D - and +

Answer: B

Explanation:

Expression : $16 \div 6 + 35 \times 9 - 15 = 31$

(A) : + and \times

$$\text{L.H.S.} = 16 \div 6 \times 35 + 9 - 15$$

$$= 93.33 - 6 = 87.33 \neq \text{R.H.S.}$$

(B) : - and \div

$$\text{L.H.S.} = 16 - 6 + 35 \times 9 \div 15$$

$$= 10 + (7 \times 3) = 31 = \text{R.H.S.}$$

=> Ans - (B)

Question 40

If $70\$7 = 10$, $50\$5 = 10$ and $40\$8 = 5$, then find the value of $10\$2 = ?$

A 50

B -10

C 16

D 5

Answer: D

Explanation:

Given : $70\$7 = 10$, $50\$5 = 10$ and $40\$8 = 5$

If we replace '\$' with ' \div ', then we will get the desired result.

$$\text{Eg :- } \frac{70}{7} = 10$$

$$\text{and } \frac{50}{5} = 10$$

$$\text{and } \frac{40}{8} = 5$$

$$\text{Similarly, } \frac{10}{2} = 5$$

=> Ans - (D)

Question 41

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

$YXYXZYX$, $YXZYXZY$, $YZXYXZY$, $YXYXZYX$, $YXZYXZY$, _____.

A $ZYXYXZY$

B $YXYXZYX$

C $YXZYXZY$

D $YXZYXZY$

Answer: C

Explanation:

Expression : $YXYXZYX$, $YXZYXZY$, $YZXYXZY$, $YXYXZYX$, $YXZYXZY$, _____.

The pattern followed is that there is combination of 7 letters consisting of 'YXYXYXY' and in between the letters, 'Z' is added in such a way that its starts from third last position and keeps shifting two places to the left.

Thus, in the missing term, third letter will be Z = YXZYXYXY

=> Ans - (C)

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Question 42

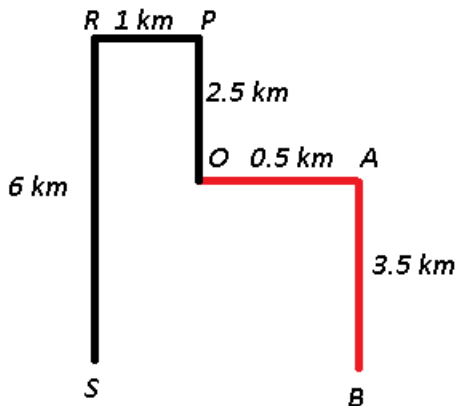
A brother and sister leave home for school. The brother goes 0.5 km East, then turns right and goes 3.5 km and reaches his school. The sister goes 2.5 km North, then 1 km West, then turns left and goes 6 km and reaches her school. Where is the brother's school with respect to the sister's school?

- A 0.5 km East
- B 1.5 km West
- C 0.5 km West
- D 1.5 km East

Answer: D

Explanation:

Let the brother and sister leave home from point O. The brother (red) goes 0.5 km East to A, then turns right and goes 3.5 km and reaches his school B. The sister (black) goes 2.5 km North, then 1 km West to point R, then turns left and goes 6 km southwards and reaches her school S.



=> $BS = 1 + 0.5 = 1.5$ km

∴ Brother's school is **1.5 km east** with respect to the sister's school.

=> 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: Some beverages are juices

II: No drinks are beverages

Conclusion I: Some juices are drinks

II: No beverages are juices

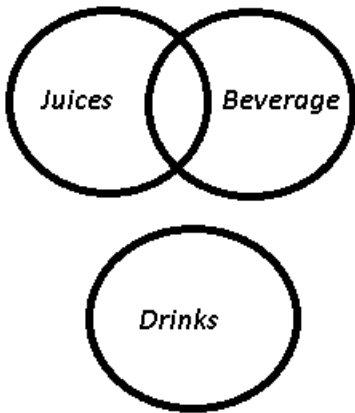
- A Only conclusion I follows
- B Only conclusion II follows

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

Answer: D

Explanation:

The venn diagram for above statements is :



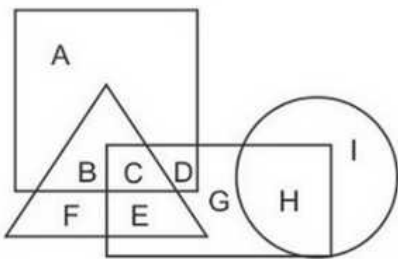
Conclusion I: Some juices are drinks = may or may not be true
 Conclusion II: No beverages are juices = false

Thus, neither conclusion I nor conclusion II follows.

=> Ans - (D)

Question 44

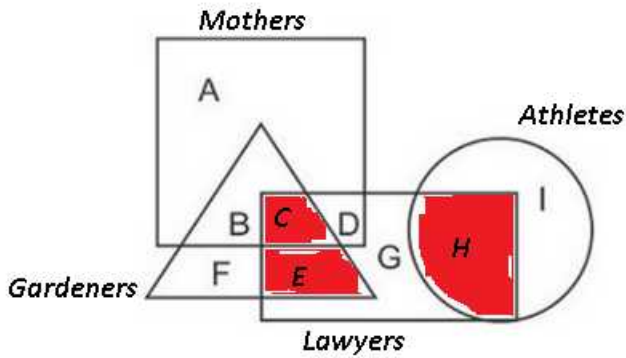
In the following figure, rectangle represents lawyers, circle represents Athletes, triangle represents Gardeners and square represents Mothers. Which set of letters represents Lawyers who are either Athletes or Gardeners?



- A HCE
- B DG
- C BFI
- D CDH

Answer: A

Explanation:



Lawyers who are either Athletes or Gardeners are represented by = HCE

=> 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.
RLN, SNQ, TPT, URW, ?

- A VUA
- B VTZ
- C WSA
- D WTA

Answer: B

Explanation:

Series : RLN, SNQ, TPT, URW, ?

The pattern followed in each letter of the terms is :

1st letter : R (+1 letter) = S (+1 letter) = T (+1 letter) = U (+1 letter) = V

2nd letter : L (+2 letters) = N (+2 letters) = P (+2 letters) = R (+2 letters) = T

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

Thus, missing term = **VTZ**

=> Ans - (B)

Question 46

In the following question, select the missing number from the given series.
42, 47, 52, 57, ?, 67

- A 60
- B 62
- C 65
- D 63

Answer: B

Explanation:

'5' is added to all the numbers.

$42 + 5 = 47$

$$47 + 5 = 52$$

$$52 + 5 = 57$$

$$57 + 5 = 62$$

$$62 + 5 = 67$$

=> 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 (17, 84, 35)

B (12, 59, 23)

C (7, 34, 13)

D (11, 54, 21)

Answer: A

Explanation:

The numbers are of the form : $(x, 5x - 1, 2x - 1)$

But in the first option, we have $= 2 \times 17 - 1 = 33 \neq 35$

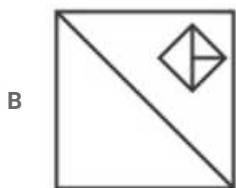
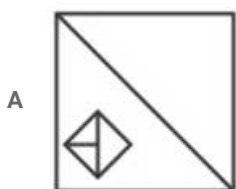
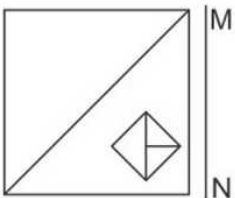
Thus, (17, 84, 35) is the odd one out.

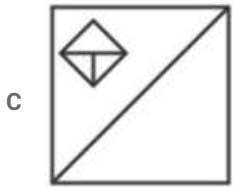
=> Ans - (A)

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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: A

Explanation:

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

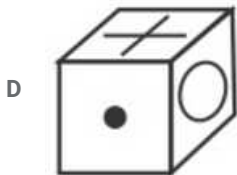
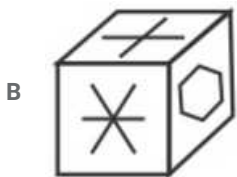
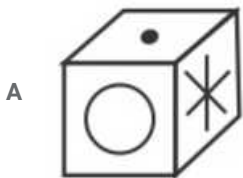
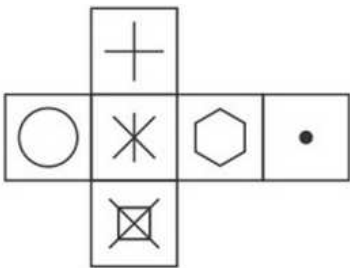
So the diagonal originating from top right will now appear at top left, thus the last two options will be eliminated.

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

=> Ans - (A)

Question 49

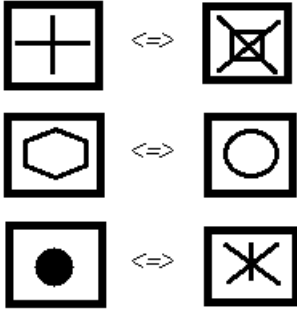
Which of the following cube in the answer figure cannot be made based on the unfolded cube in the question figure?



Answer: A

Explanation:

When we fold the given figure, the square with a 'X' sign with vertical line will become the base of the cube and the side with only 'dot' sign 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 first option is not possible.

=> Ans - (A)

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 example 'f' can be represented by 42, 34 etc and 'U' can be represented by 55, 96 etc. Similarly, you have to identify the set for the word 'SEND'.

Matrix - I

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

Matrix - II

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

- A 65,22,77,43
- B 43,75,12,69
- C 21,65,12,89
- D 13,96,30,78

Answer: A

Explanation:

(A) : 65,22,77,43 = SEND

(B) : 43,75,12,69 = DPGO

(C) : 21,65,12,89 = LSGY

(D) : 13,96,30,78 = ISIW

=> 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

A rainbow is caused by reflection, refraction, and dispersion (a)/ of light among water droplets resulting in a (b)/ spectrum of light appearing in the sky. (c)/ No error (d)

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

Answer: A

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Question 52

The first demonstration of the live (a) transmission of images were given by Georges Rignoux (b)/ and A. Fournier in Paris in 1909. (c)/ No error (d)

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

Answer: B

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

Priya sat ____ a sofa at the Opera.

- A in
- B under
- C into
- D on

Answer: D

Question 54

A thorough search at ____'s home produced stolen items.

- A thief
- B their
- C him
- D his

Answer: A

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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

Pithy

- A Verbose
- B Brief
- C Lengthy
- D Unabridged

Answer: B

Question 56

Mundane

- A Bounteous
- B Heavenly
- C Exciting
- D Everyday

Answer: D

Question 57

Clamorous

- A Noisy
- B Confusion
- C Disturbance
- D supression

Answer: A

Question 58

Allergic

- A Affected
- B Immune
- C sesitive

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D Afraid

Answer: C

Instructions

For the following questions answer them individually

Question 59

Rearrange the parts of the sentence in correct order.

Daily pricing

P : is being seen as a ploy

Q : government to escape any political backlash

R : to increase prices while allowing the

A RQP

B PRQ

C QPR

D PQR

Answer: B

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 people considered him as an outcast.

A He was an outcast for the people.

B He is considered by the people as an outcast.

C He was consider as an outcast by the people.

D He was considered as an outcast by the people.

Answer: D

Explanation:

The given sentence is in simple past tense and is in active voice. So, its passive voice will also be in the simple past tense. The subject 'the people' will become object and object 'him' will become subject keeping the tense same.

Hence, option D is the correct answer.

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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.

He says, " I am a little bit afraid."

A He was a little bit afraid, he said.

B He said he was afraid.

C He says that he is a little bit afraid.

D He says that he was a little bit afraid.

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 Intrefrence
- B Interfrence
- C Interfrence
- D Interference

Answer: D

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.

If there is a subject of really _____ interest and utility, it is the art of writing and speaking one's own language _____. It is the basis of culture, as we all know; but it is infinitely more _____ that, it is the basis of business. _____ salesman can sell anything unless he can explain the merits of his goods in effective language, or can write _____ advertisement equally effective, or present his ideas, and the facts, in a letter.

Question 63

subject of really _____ interest and utility

- A universe
- B universally
- C universality
- D universal

Answer: D

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Question 64

one's own language _____. It is the basis

- A effective
- B effectiveness
- C effectivity
- D effectively

Answer: D

Question 65

is infinitely more that it is Me basis

- A then

- B such
- C so
- D than

Answer: D

Question 66

of business. salesman can sell

- A None
- B Never
- C Neither
- D No

Answer: D

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Question 67

can write ___ advertisement equally

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

Answer: B

Instructions

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

Question 68

Pull the plug

- A Behave greedily and take the most of the shared things for oneself.
- B Do something to stop the persistent losses.
- C Prevent something from happening or continuing.
- D Play loud irritating music.

Answer: C

Question 69

As high as a kite

- A inoicated with alcohol.
- B Feel light after meditation.

C Feel jubilant after victory.

D Behave arrogantly.

Answer: A

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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

A transcendent state in which there is neither suffering, desire, nor sense of self

A Woe

B Nirvana

C Depression

D Despondency

Answer: B

Question 71

Give strength or energy to

A Narcoleptic

B Invigorate

C Prostrate

D Exasperate

Answer: B

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

The news (had appeared) irrelevant at that time, but now it directly affects us.

A have appeared

B is appeared

C had appears

D no improvement

Answer: D

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Question 73

We, on the other hand, (is amused) by the number of channels it had to offer.

- A was amused
- B were amused
- C were amusing
- D no improvement

Answer: B

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.

Contrast this with

A-the attitude of the general

B-public in the advanced

C-countries towards senior citizens

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

Answer: A

Question 75

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

- A imparsonators
- B impersonaters
- C impersonators
- D imparsonaters

Answer: C

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General Awareness

Instructions

For the following questions answer them individually

Question 76

The marginal propensity to consume lies between _____.

- A 0 to Infinity

- B 0 to 1
- C 1 to Infinity
- D 0 to 10

Answer: B

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Question 77

In India, which of the following is regulated by the Forward Markets Commission?

- A Currency Futures Trading
- B Commodities Futures Trading
- C Equity Futures Trading
- D Both Commodities Futures and Financial Futures Trading

Answer: B

Question 78

Which of the following ruling dynasty's capital is NOT correctly matched?

- A Pratihara Kannauj
- B Pallava Kanchi
- C Chalukya Tanjore
- D Sen Lakhnauti

Answer: C

Question 79

Which of the following land revenue arrangement is called 'Todarmal System'?

- A Zabti System
- B Galla Bakshi System
- C Kankut System
- D Nasaq System

Answer: A

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Question 80

Approximately what is the length of the Suez canal?

- A 64.8 km
- B 106.5 km

C 178 km

D 193 km

Answer: D

Question 81

The Ukai project is situated

A on Tapi river in Madhya Pradesh

B on Tapi river in Gujarat

C on Sabarmati river in Gujarat

D on Narmada river in Madhya Pradesh

Answer: B

Question 82

Who was the exponent of Lokayata Darshana?

A Kapil

B Badarayan 3

C Charvak

D Ramanuja W

Answer: C

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Question 83

What was the theme of the 5th Global Conference on Cyber Space (GCCS), held in November, 2017?

A Cyber4All: AnInclusive, Sustainable, Developmental, Safe and Secure Cyberspace

B Cyber for Better Life

C Cyber for Better Future

D Cyber for World

Answer: A

Question 84

Who among the following is NOT a Miss World?

A Manushi Chhillar

B Yukta Mookhey

C Sushmita Sen

D Diana Hayden

Answer: C

Question 85

Which is the chief crop of Sri Lanka in which country is self-sufficient?

- A Rice
- B Sugarcane
- C Rubber
- D Cocoa

Answer: A

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Question 86

In nuclear reactor, cadmium rods are used as which of the following?

- A Fuel
- B Moderator
- C Controller
- D Lubricant

Answer: C

Question 87

Which of the following is used in gunpowder?

- A Potassium bromide
- B Potassium nitrate
- C Monopotassiurn
- D Potassium sulphate

Answer: B

Explanation:

potassium nitrate also known as saltpetre is the main constituent of gun powder which is upto 75% by weight and other constituents are charcoal 15% and sulphur 10%

Question 88

According to Indian Constitution, there are three organs of government. Which among the following is/are NOT an organ/organs of it?

- I. The legislature
- II. The Media
- III. The Judiciary

- A Only I
- B Only II
- C Only III

D Only I and III

Answer: B

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Question 89

Decisions made by which court are binding on all other courts in India?

- A High courts
- B Supreme court
- C Tehsil court
- D No option is correct

Answer: B

Question 90

The sperms formed in testes are delivered through the _____ which unites with a tube coming from the urinary bladder.

- A ureter
- B seminal vesicle
- C vas deferens
- D urethra

Answer: C

Question 91

Which of the following is NOT a constituent of xylem?

- A Tracheids
- B Companion cells
- C Vessels
- D Xylem parenchyma

Answer: B

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Question 92

In November 2017, under the Credit Linked Subsidy Scheme (CLSS) increase in the carpet area for Middle Income Group I (MIGI) was approved. The carpet area for MIGI will be increased to _____.

- A 150 square metre
- B 120 square metre
- C 100 square metre

D 110 square metre

Answer: B

Question 93

Which country is constructing a DNA sequencing platform to store ethnic data of about 80 million people?

A India

B United States of America

C China

D Indonesia

Answer: C

Question 94

As per a report released by the Bank of America Merrill Lynch in November 2017, India is likely overtake Japan in nominal GDP to become world's thirdlargest economy by which year?

A 2025

B 2020

C 2028

D 2050

Answer: C

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Question 95

On the basis of whose recommendations the Union Ministry of Minority Affairs has ended the Haj subsidy from 2018?

A Afzal Amanullah Committee

B Umesh Sinha Committee

C Mukhtar Abbas Naqvi Committee

D Shahnaz Hussain Committee

Answer: C

Question 96

Calculate the frequency (in Hz) of a sound wave of wavelength 5 m travelling with a speed of 360 m/s.

A 1800

B 36

C 900

D 72

Answer: D

Question 97

In a sound wave compressions are regions where density _____

- A as well as pressure is high.
- B as well as pressure is low.
- C is high and pressure is low
- D is low and pressure is high

Answer: A

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Question 98

Soil contains decayed remains of living organisms. This is called _____.

- A minerals
- B biosphere
- C saline soil
- D humus

Answer: D

Question 99

Which of the statements given below are correct?

- A) Sebastian Vettel won the Formula One 2017 Mexican Grand Prix.
- B) In 2017, Per Mertesacker captained the Premier League team Arsenal.
- C) Tan Zhongyi won the 2017 Women's World Chess Championship

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

Answer: C

Question 100

_____ among the following is a Language of JavaScript

- A text/JavaScript
- B text/ecmascript
- C text/vbscript
- D JavaScript vbscript

Answer: D

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