

Scorecard (ScoreCard.jsp? sid=aaalGc0xkx0Ei6lI2nc2xSat Dec 04 20:18:03 IST 2021&qsetId=yLCQLBP0t6l=&qsetName=Actual Paper IIFT 2021-23)	Accuracy (AccSelectGraph.jsp? sid=aaalGc0xkx0Ei6lI2nc2xSat Dec 04 20:18:03 IST 2021&qsetId=yLCQLBP0t6l=&qsetName=Actual Paper IIFT 2021-23)	Qs Analysis (QsAnalysis.jsp? sid=aaalGc0xkx0Ei6lI2nc2xSat Dec 04 20:18:03 IST 2021&qsetId=yLCQLBP0t6l=&qsetName=Actual Paper IIFT 2021-23)	Video Atterr sid=aaalGc0x 2021&qsetId=
Quantitative Analysis	Reading Comprehension and Verbal Ability	Data Interpretation and Logical Reasoning	General Awareness

Sec 1

Q.1 [11746091]

Surojit Ghosh left his IT job last year and started a food business with his wife Debjani. They named the business "Bong's Kitchen". Surojit takes $4\frac{1}{5}$ hours more when he works alone compared to when he works jointly with his wife. On the other hand, Debjani takes $28\frac{1}{5}$ hours more than what she takes when she works with Surojit. How long approximately will it take, Surojit to complete the business work alone?

1 ☐ 6 hours

2 ☐ 9 hours

3 ☐ 12 hours

4 ☐ 15 hours

Solution:

Correct Answer : 4

Let Surojit takes x hours to complete the work alone.

Then, Debjani takes $= (x + 24)$ hours

and together they take $= \left(x - 4\frac{1}{5}\right)$ hours

According to problem,

$$\frac{1}{x} - \frac{1}{x+24} = \frac{1}{x-4\frac{1}{5}}$$

$$\Rightarrow \frac{x+24+x}{x(x+24)} = \frac{5}{5x-21}$$

$$\Rightarrow 10x^2 + 120x - 42x - 504 = 5x^2 + 120x$$

$$\Rightarrow 5x^2 - 42x - 504 = 0$$

$$\therefore x = \frac{42 \pm \sqrt{(-42)^2 - 4 \times 5 \times (-504)}}{2 \times 5}$$

$$\Rightarrow x = \frac{42 \pm 108.83}{10}$$

$$\Rightarrow x = \frac{150.83}{10} \approx 15 \text{ hours.}$$

[Answer key/Solution](#)

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Q.2 [11746091]

Suhani, an enterprising lady took the loan from M/s Koramattam Finance against her gold ornaments at a simple interest of 12% per annum for 2 years. She, then, loaned 50% of amount received from M/s Koramattam Finance, to Vishamber at the rate of 16% per annum compounded half yearly for 2 years and the remaining amount to Kalawati at the rate of 12% per annum compounded annually for 2 years. What was the approximate percentage earning of Suhani at the end of 2 years?

1 ☐ 42%

2 ☐ 28%

3 ☐ 50%

4 ☐ 60%

Solution:

Correct Answer : 2

Let Rs. P be the amount of loan taken by Suhani for 2 years from M/s Koramattam Finance.

The interest paid by Suhani to M/s Koramattam Finance = $P \times 0.12 \times 2 = \text{Rs. } 0.24P$

The interest received by Suhani from Vishamber

$$= 0.5P \left[\left(1 + \frac{16}{100} \right)^{2 \times 2} - 1 \right] \approx \text{Rs. } 0.40P$$

The interest received by Suhani from Kalawati

$$= 0.5P \left[\left(1 + \frac{12}{100} \right)^2 - 1 \right] \approx \text{Rs. } 0.12P$$

Hence, approximate earning of Suhani after 2 years
 $\approx (0.40P + 0.12P) - 0.24P = 0.28P$ i.e., 28%.

[Answer key/Solut](#)

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Q.3 [11746091]

A man, from the foot of the building P, walks towards the building Q. After walking for 2 mts, he finds that buildings P and Q make an angle of elevation of 60° and 30° respective building Q is 1.5 mts high, find the distance between the tops of both buildings P and Q.

1 ☐ 5 mts

2 ☐ 4 mts

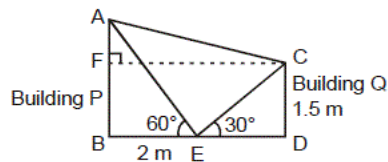
3 ☐ $(2\sqrt{3} - 1.5)$ mts

4 ☐ $(2 - 1.5\sqrt{3})$ mts

Solution:

Correct Answer : 1

[Answer key/Solut](#)



$$\text{In triangle CDE, } \tan 30^\circ = \frac{1.5}{DE}$$

$$\Rightarrow DE = 1.5\sqrt{3} \text{ m}$$

$$\text{Therefore, } DB = (2 + \sqrt{3}) \text{ m}$$

$$\text{In triangle ABE, } \tan 60^\circ = \frac{AB}{2}$$

$$\Rightarrow AB = 2\sqrt{3} \text{ m}$$

$$\text{Therefore, } AF = (2\sqrt{3} - 1.5) \text{ m}$$

In triangle AFC,

$$AC^2 = (2 + 1.5\sqrt{3})^2 + (2\sqrt{3} - 1.5)^2$$

$$\Rightarrow AC^2 = 4 + 2.25 \times 3 + 6\sqrt{3} + 12 + 2.25 - 6\sqrt{3}$$

$$\Rightarrow AC^2 = 25$$

$$\Rightarrow AC = 5 \text{ m.}$$

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Q.4 [11746091]

At what time between 10.00 AM and 11.00 AM, the minute hand and the hour hand of a watch would make an angle of 180° ?

1 ☐ 10.20 AM

2 ☐ 10.22 AM

3 ☐ 10.23 AM

4 ☐ 10.25 AM



Solution:

Correct Answer : 2

Your Answer : 2

At 10 AM, the angle between hour hand and minute hand = $2 \times 30 = 60^\circ$

The angle difference between hour hand and minute hand of a clock in a minute

$$= 6 - \frac{1}{2} = \left(5\frac{1}{2}\right)^\circ$$

$$\text{Required minutes} = \frac{180 - 60}{11/2} \approx 22$$

Hence, time will be 10 : 22 AM.

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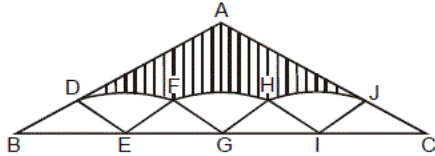
FeedBack

[Answer key/Solut](#)

Q.5 [11746091]

ABC is an isosceles triangle. BDE, EFG, GHI and IJC are four equal isosceles triangles inside ABC triangle.

D and F, F and H, H and J are connected by circular arcs. The angle ABC is 30 degrees and BE is 1 m. What is the area of the shaded region ?



1 ☐ $\sqrt{6} - \frac{\pi}{6} \text{m}^2$

2 ☐ $\sqrt{5} - \frac{\pi}{5} \text{m}^2$

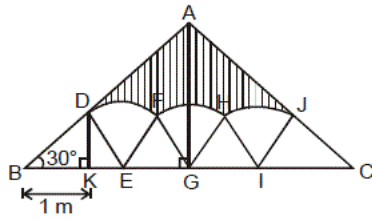
3 ☐ $\sqrt{3} - \frac{\pi}{3} \text{m}^2$

4 ☐ $\sqrt{7} - \frac{\pi}{7} \text{m}^2$

Solution:

Correct Answer : 3

Answer key/Solut



ABC is an isosceles triangle with $AB = AC$, $\angle B = 30^\circ$ and $BE = 1$ m.

In triangle AGB, $\tan 30^\circ = \frac{AG}{BG}$

$$\Rightarrow \frac{1}{\sqrt{3}} = \frac{AG}{2} \Rightarrow AG = \frac{2}{\sqrt{3}} \text{ m}$$

Area of triangle ABC

$$= \frac{1}{2} \times 4 \times \frac{2}{\sqrt{3}} = \frac{4}{\sqrt{3}} \text{ sq. m} \quad \dots (i)$$

In triangle DKB, $\tan 30^\circ = \frac{DK}{KB}$

$$\Rightarrow \frac{1}{\sqrt{3}} = \frac{DK}{1/2} \Rightarrow DK = \frac{1}{2\sqrt{3}} \text{ m}$$

Also, $\cos 30^\circ = \frac{1/2}{DB}$

$$\Rightarrow \frac{\sqrt{3}}{2} = \frac{1}{2DB} \Rightarrow DB = \frac{1}{\sqrt{3}} \text{ m}$$

$$\text{Area of triangle BDE} = \frac{1}{2} \times 1 \times \frac{1}{2\sqrt{3}} = \frac{1}{4\sqrt{3}} \text{ sq. m}$$

Area of triangle, BDE + EFG + GHI + IJC

$$= 4 \times \frac{1}{4\sqrt{3}} = \frac{1}{\sqrt{3}} \text{ sq. m} \quad \dots (ii)$$

Area of three circular arcs

$$= 3 \times \frac{120}{360} \times \pi \left(\frac{1}{\sqrt{3}} \right)^2 = \frac{\pi}{3} \text{ sq. m} \quad \dots (iii)$$

Hence, area of the shaded region

$$= \frac{4}{\sqrt{3}} - \frac{1}{\sqrt{3}} - \frac{\pi}{3} = \left(\sqrt{3} - \frac{\pi}{3} \right) \text{ sq. m.}$$

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Q.6 [11746091]

A water tanker can be filled by 2 pipes A & B separately in 16 min & 32 min respectively. Outlet of the tanker is partially open and it can empty the full tanker completely in 1 hour min. Pipes A & B were opened simultaneously for 9 min to fill the tanker but the partially open outlet was not closed. After 9 min the pipes A & B were closed and the tanker then to Mohan's house, 6 km away to deliver water. If the tanker moved at a constant speed of 36 km/hr, approximately what percentage of tanker was full, when it reached Mohan's house?

1 ☐ 55%

2 ☐ 63%


3 ☐ 58%

4 ☐ None of the options

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Solution:

Correct Answer : 1

 Answer key/Solut

Your Answer : 4

Pipes A and B can fill the tanker in 16 minutes and 32 minutes respectively.

Partially open outlet can empty the tanker in 1 hour 4 minutes i.e., 64 minutes.

Let the capacity of the tanker be LCM (16, 32, 64 =) 64 units of water

Then, pipe A can fill 4 units per minute.

Pipe B can fill 2 units per minute.

Partially open outlet can empty 1 unit per minute.

In 9 minutes, tanker can be filled = $9 \times (4 + 2 - 1)$
= 45 units

Time taken by tanker to reach Mohan's house

$$= \frac{6}{36} = \frac{1}{6} \text{ hour or 10 minutes}$$

Number of units of water in tanker, when it reached

$$\text{Mohan's house} = 45 - 10 \times 1 = 35$$

$$\text{Hence, required percentage} = \frac{35}{64} \times 100 \approx 55\%.$$

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Q.7 [11746091]

An owner of a grocery shop purchases two varieties of grain. The price of first variety is twice the price of the second one. He mixes both the varieties and sells the mixture at the price of Rs. 28 per kg, making a profit of 25%. If the ratio of first variety of grain and the second variety of grain in the mixture is 2:3, find the price of first variety of grain.

1 ☐ Rs. 16/kg.


2 ☐ Rs. 24/kg.

3 ☐ Rs. 32/kg.

4 ☐ Rs. 64/kg.

Solution:

Correct Answer : 3

 Answer key/Solut

Let Rs. p per kg be the price of second variety of grain. Then, the price of first variety of grain will be Rs. 2p per kg.

Let 2x and 3x be the quantity of first variety of grain and second variety of grain in the mixture respectively.

According to problem,

$$(2p \times 2x + p \times 3x) \times 1.25 = (2x + 3x) \times 28$$

$$\Rightarrow 7p \times 1.25 = 5 \times 28$$

$$\Rightarrow p = 16$$

Hence, price of first variety of grain = $2 \times 16 = \text{Rs. } 32/\text{kg}.$

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Q.8 [11746091]

The probabilities of three mutually exclusive outcomes of an experiment $0.25(1 - x)$, $0.5(1 - 2x)$ and $0.25(1 + 4x)$ respectively. Which of the following holds for the value of x?

1 ☐ $-0.5 \leq x \leq 0.5$

2 ☐ $0 \leq x \leq 0.5$

3 ☐ $-0.75 \leq x \leq 0.25$

4 ☐ $-0.25 \leq x \leq 0.5$

Solution:

Correct Answer : 2

 Answer key/Solut

The outcomes of an experiment are mutually exclusive.

$$(1 - x) \geq 0, 0.5(1 - 2x) \geq 0, 0.25(1 + 4x) \geq 0, \text{ and } 0 \leq 0.25(1 - x) + 0.5(1 - 2x) + 0.25(1 + 4x) \leq 1$$

$$\text{or, } x \leq 1, x \leq 0.5, x \geq -0.25, \text{ and } 0 \leq x \leq 4$$

$$\Rightarrow 0 \leq x \leq 0.5.$$

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Q.9 [11746091]

A fruit seller in a locality uses dishonest practice as follows :

(i) He cheats on weight by 10 percent for every 1 kg weight.

(ii) He pushes up the price of fruit by 15 percent and then gives a discount of 8 percent to the buyers for every kg sold.

Find the percentage profit of the fruit seller from sale of 1 kg. (Profit is defined as Revenue - Cost)

1 ☐ 18.95


2 ☐ 17.56

3 ☐ 16.04

4 ☐ 15.00

Solution:

Correct Answer : 2

 Answer key/Solut

Let the cost price of fruits be Rs.100/kg.

(i) Since fruit seller cheats on weight by 10% for every 1 kg weight.

Therefore, cost of $(1000 \times 0.9 =) 900$ g fruits will be Rs.90.

(ii) Selling price of every 1 kg of fruits = $100 \times 1.15 \times 0.92 = \text{Rs. } 105.80$

Hence, required percentage profit

$$= \frac{105.80 - 90}{90} \times 100 \approx 17.56\%.$$

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Q.10 [11746091]

The product of the roots of the equation

$$\sqrt[3]{11+2x} + \sqrt[3]{11-2x} = 2$$

is approximately equal to:

1 ☐ 22

2 ☐ -27

3 ☐ 35

4 ☐ -33

Solution:

Correct Answer : 4

 Answer key/Solut

$$\begin{aligned}\sqrt[3]{11+2x} + \sqrt[3]{11-2x} &= 2 \\ \text{Cubing both sides, we get} \\ (11 + 2x) + (11 - 2x) + 3\sqrt[3]{11+2x} \times \sqrt[3]{11-2x} \\ (\sqrt[3]{11+2x} + \sqrt[3]{11-2x}) &= 8 \\ \Rightarrow 3\sqrt[3]{11+2x} \times \sqrt[3]{11-2x} (2) &= -14 \\ \Rightarrow \sqrt[3]{11+2x} \times \sqrt[3]{11-2x} &= \frac{-7}{3} \\ \Rightarrow (11 + 2x)(11 - 2x) &= \frac{-343}{27} \text{ (Cubing both sides)} \\ \Rightarrow 121 - 4x^2 &= \frac{-343}{27} \\ \Rightarrow 4x^2 - \frac{3610}{27} &= 0\end{aligned}$$

Hence, product of roots = $-\frac{3610}{4 \times 27} \approx -33$.

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Q.11 [11746091]

ABCD is a parallelogram whose diagonals are parallel to the lines $2y - x - 5 = 0$ and $y + 2x - 7 = 0$ respectively.

Then ABCD is-

1 ☐ Cyclic quadrilateral


2 ☐ Rectangle

3 ☐ Cube

4 ☐ Rhombus

Solution:

Correct Answer : 4

 Answer key/Solut

ABCD is a parallelogram whose diagonals are parallel to the lines $2y - x - 5 = 0$ and $y + 2x - 7 = 0$ respectively.

The parallel lines to these lines are:

$$2y - x - k = 0$$

$$\Rightarrow y = \frac{x}{2} + \frac{k}{2} = 0 \quad \dots (i)$$

$$\text{and } y + 2x - m = 0$$

$$\Rightarrow y = -2x + \frac{m}{2} \quad \dots (ii)$$

$$\text{Slope of line (i)} = \frac{1}{2}$$

$$\text{Slope of line (ii)} = -2$$

$$\text{Product of slopes} = \frac{1}{2} \times (-2) = -1$$

Therefore, lines (i) and (ii) are perpendicular to each other.

Since diagonals of a rhombus bisect each other at right angles. Hence, the parallelogram ABCD is a rhombus.

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Q.12 [11746091]

If $16^x = \frac{64}{256^y}$ and $9^x = \frac{9}{3^y}$, then the values of x and y are respectively,

1 ☐ $\frac{5}{6}$ and $\frac{1}{2}$

2 ☐ $\frac{7}{6}$ and $\frac{1}{3}$

3 ☐ $\frac{5}{6}$ and $\frac{1}{3}$

4 ☐ $\frac{11}{6}$ and $\frac{1}{3}$

✖

Solution:

Correct Answer : 3

Your Answer : 1

$$16^x = \frac{64}{256^y}$$

$$\Rightarrow (4^2)^x = \frac{4^3}{(4^4)^y} \Rightarrow 4^{2x} = 4^{3-4y}$$

$$\therefore 2x = 3 - 4y \Rightarrow 2x + 4y = 3 \quad \dots (i)$$

$$9^x = \frac{9}{3^y}$$

$$\Rightarrow (3^2)^x = \frac{3^2}{3^y} \Rightarrow 3^{2x} = 3^{2-y}$$

$$\therefore 2x = 2 - y \Rightarrow 2x + y = 2 \quad \dots (ii)$$

From (i) and (ii), we get $x = \frac{5}{6}$ and $y = \frac{1}{3}$.

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🔍 Answer key/Solut

Q.13 [11746091]

Three friends Pradeep, Suresh and Subodh work in the same office. During an extended weekend they decided to go together on a family trip to Corbett National Park. They start from office in their own car but at different time and travelled in the same direction at speeds of 50 km/hr, 60 km/hr and 75 km/hr respectively. Suresh and Subodh overtook Pradeep at the same point. If Suresh started 90 minutes after Pradeep, how many minutes after Pradeep did Subodh start from the office?

1 ☐ 120

2 ☐ 150

3 ☐ 180

4 ☐ 210

Solution:

Correct Answer : 3

The distance travelled by Pradeep in 90 minutes

$$= \frac{90}{60} \times 50 = 75 \text{ km}$$

Time taken by Suresh to overtake Pradeep

$$= \frac{75}{60 - 50} = 7.5 \text{ hours}$$

The distance from their office to the overtaking point

$$= 7.5 \times 60 = 450 \text{ km}$$

$$\text{Hence, Subodh started} = \frac{450}{50} - \frac{450}{75} = 9 - 6 = 3$$

hours or 180 minutes after Pradeep.

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FeedBack

🔍 Answer key/Solut

Q.14 [11746091]

Sumit stays in Noida in a joint family comprising of his parents, uncle, aunt, an elder sister and a cousin two years younger than him. Sumit completed his MBA in 2013, from a reputed B-School. That year, the average age of Sumit's family was 41. Sumit got married in 2015 and two years after he became father. If the average age of Sumit's family in 20 remains same as in 2013, and Sumit is older than his wife by 3 years, at what age did Sumit graduate MBA?

1 ☐ 312 ☐ 353 ☐ 384 ☐ 41**Solution:****Correct Answer : 2**

In 2013, total family members in Sumit's family was = 7

$$\therefore \frac{\text{Sum of age of these members}}{7} = 41$$

\Rightarrow Sum of the age of these 7 members = 287.

In 2019, age of his wife and his son are also added.

Let 'w' be the age of his wife in 2013.

$$\therefore 287 + (7 \times 6) + (w + 6) + 2 = 41 \times 9$$

$$\Rightarrow w = 32$$

Hence, Sumit's age in 2013 = 32 + 3 = 35 years.

[Answer key/Solut](#)

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Q.15 [11746091]

Mr. Madhukar worked for 5 years in a multicommodity trading company after graduating from a reputed B-School. He then resigned from his job and started an online garment export business. For his business Madhukar used Rs. 8,00,000/- of his own savings and borrowed Rs. 12,00,000/- from a private sector bank in April, the beginning month of the financial year. Meanwhile, RBI eased repo rate in May and banks passed on the benefits to the borrowers. As a result, Madhukar borrowed an additional Rs. 9,00,000/- after 4 months at an interest rate which is 10% lower than the interest rate of his earlier borrowing. If the total interest paid by Madhukar at the end of that year on both the loans is Rs. 1,39,200 what is the interest rate per annum on first borrowing ?

1 ☐ 6 percent2 ☐ 7 percent3 ☐ 8 percent4 ☐ 9 percent**Solution:****Correct Answer : 3**

He borrowed Rs. 12,00,000 in the beginning of the financial year and additional Rs. 9,00,000 after 4 months.

Let 'r' be the interest rate per annum on first borrowing

\therefore According to the question,

$$\frac{1200000 \times 1 \times r}{100} + \frac{900000 \times 90r}{100 \times 100} \times \frac{8}{12} = 139200$$

On solving, we get,

$$r = 8\%$$

[Answer key/Solut](#)

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FeedBack

Q.16 [11746091]

Consider the equation $(x - a)(x - b) = 0$ which has two identical roots. What should be the condition under which $(x - a)(x - b) = c$ has two distinct real roots?

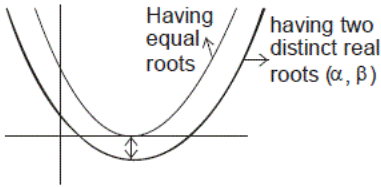
1 ☐ $c > 0$ 2 ☐ $a + b > 0$ 3 ☐ $c(a + b) > 0$

4 ☐ $ab > 0$

Solution:

Correct Answer : 1

[Answer key/Solut](#)



The parabola having two identical roots means it will touch the x-axis whereas the parabola having two distinct roots goes down by some constant value and is written in the form of $(x - \alpha)(x - \beta) - k = 0$. The given equation is $(x - a)(x - b) - c = 0$. The given equation is $(x - a)(x - b) - c = 0$. On comparing, we can say that the parabola should go downwards by a positive value, which implies that $c > 0$.

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Q.17 [11746091]

An economic survey of total 1000 participants was carried out in Delhi, Mumbai, Kolkata and Chennai about their wealth. 300 participants reported possessing both a house and a car. 500 participants reported possessing both a house and a motorbike. 200 participants reported possessing a house together with a motorbike and a car. Find the number of participants who possess both a house and a car, or possess both a house and a motorbike.

1 ☐ 400

2 ☐ 200

3 ☐ 600

4 ☐ 800

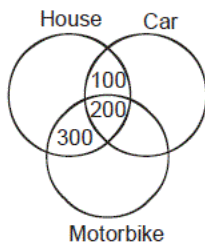
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Solution:

Correct Answer : 3

Your Answer : 1

[Answer key/Solut](#)



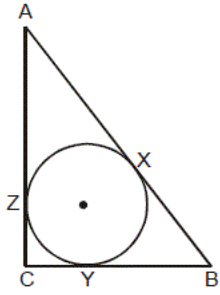
\therefore The required answer is $= 300 + 100 + 200 = 600$.

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Q.18 [11746091]

A circle is inscribed in a right angled isosceles triangle. O is the centre of the circle which touches the triangle ABC at X, Y, Z. If $AB = 7\sqrt{2}$ cm, then the ratio of $AZ : BX : CY$ -



1 ☐ $1 : (\sqrt{2} - 1) : 1$

2 ☐ $1 : 1 : (\sqrt{2} - 1)$

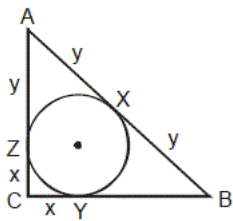
3 ☐ $1 : 1 : \left(\sqrt{2} - \frac{1}{2}\right)$

4 ☐ $1 : \left(\sqrt{2} - \frac{1}{2}\right) : 1$

Solution:

Correct Answer : 2

[Answer key/Solut](#)



Let $CY = x$ and $AZ = y$
 $\therefore CZ = x$ and $AX = y$

$\triangle ABC$ is a right angled isosceles triangle.

$$\therefore AC = CB$$

$$\Rightarrow BY = BX = y$$

$$\therefore 2y = 7\sqrt{2}$$

$$\Rightarrow y = \frac{7}{\sqrt{2}}$$

$$\text{Also, } AC^2 + BC^2 = AB^2$$

$$\Rightarrow 2(x + y)^2 = 49 \times 2$$

$$\Rightarrow x + y = 7$$

$$\Rightarrow x = 7 - \frac{7}{\sqrt{2}} = 7 \left(\frac{\sqrt{2} - 1}{\sqrt{2}} \right)$$

$$\therefore \text{Required ratio} = y : y : x$$

$$= \frac{7}{\sqrt{2}} : \frac{7}{\sqrt{2}} : \frac{7(\sqrt{2} - 1)}{\sqrt{2}} = 1 : 1 : (\sqrt{2} - 1).$$

Bookmark

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Q.19 [11746091]

Maruti-Suzuki Company manufactures the Ciaz cars at its Manesar facility. The company employs labour and capital/machine as inputs in a 2 : 1 ratio of their quantities. The cost of one unit of labour (think it as wage per hour) is 500 rupees and the cost of one unit of capital (machine running cost per hour) is 1500 rupees. The total labour and capital cost for monthly production is 5 crore rupees. Due to economic slowdown, the company has decided to reduce monthly production to half. Meanwhile, the labour cost has decreased by 20% and the capital cost has gone up by 20%. Find the total capital and labour cost the company would now incur for the monthly production.

1 ☐ 2.4 crores

2 ☐ 2.6 crores

3 ☐ 2.8 crores

4 ☐ 3 crores

Solution:

Correct Answer : 2

 Answer key/Solut

	Labour	:	Capital
	2	:	1
Cost	500	:	1500
Total cost	2 × 500		1 × 1500
	= 1000		= 1500

[Combined cost is 1000 + 1500 = Rs.2,500]

Now, company decided to reduce monthly production to half i.e., from 5 crores to 2.5 crores. Also, labour cost has decreased by 20%.

$$\text{So, } 1000 \times \frac{80}{100} = \text{Rs. } 800$$

Capital cost has gone up by 20%

$$= 1500 \times \frac{120}{100} = \text{Rs. } 1800$$

∴ Now, combined labour and capital cost

$$= 800 + 1800 = \text{Rs. } 2600$$

∴ Rs. 2,500 is equivalent to 2.5 crores

But now, new combined cost is Rs. 2,600 which is equivalent to Rs. 2.6 crores.

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Q.20 [11746091]

Saudi Aramco and Reliance Industries entered into a joint venture where Saudi Aramco invested 20 billion dollars and Reliance Industries invested 30 billion dollars. The owners ratio is always equal to the investment ratio. After 1 year, the venture made a profit of 6 billion dollars which they reinvested. Now Reliance Industries wants to increase its own share to 75%, how much it should pay to Saudi Aramco in billion dollars?

1 ☐ 12.4

2 ☐ 8.4

3 ☐ 10.4

4 ☐ 14.4

Solution:

Correct Answer : 2

[Answer key/Solut](#)

Investment ratio SA : RI
Profit is 6 billion dollars after 1 year.

∴ SA : RI

$$\frac{2}{5} \times 6$$

$$\frac{3}{5} \times 6$$

$$\frac{12}{5}$$

$$\frac{18}{5}$$

Their reinvestment ratio will be

$$20 + \frac{12}{5}$$

$$30 + \frac{18}{5}$$

$$\frac{112}{5} : \frac{168}{5}$$

Let Reliance Industries (RI) buy 'x' shares and pay equal money to Saudi Aramco (SA) to increase its ownership to 75% i.e., ratio becomes 1 : 3.

$$\frac{\frac{112}{5} - x}{\frac{168}{5} + x} = \frac{1}{3}$$

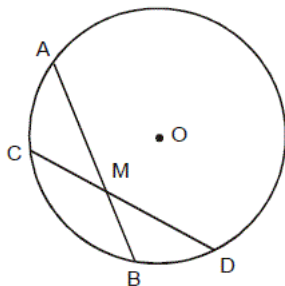
On solving, we get x = 8.4 billion dollars.

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Q.21 [11746091]

As shown in the diagram, Ram started from point A along the chord AB and Shyam started from D along the chord DC. AB and DC are two equal chords. Ram and Shyam move at the same speed and started at the same time. After some time, Ram reached "M" which is the midpoint of AB. Ram and Shyam now make an angle 60° at the centre O. If the distance between Ram and Shyam is 6 m now, then how much distance each will walk before they meet each other?



1 ☐ $6\sqrt{3}$

2 ☐ $3\sqrt{3}$

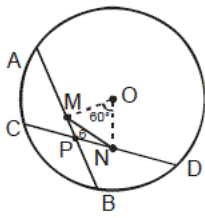
3 ☐ $2\sqrt{3}$

4 ☐ $5\sqrt{3}$

Solution:

Correct Answer : 3

[Answer key/Solut](#)



Equal chords are equidistant from the centre of the circle.

As $AB = CD$ (given)

$\therefore OM = ON$

Also, $OM \perp AB$ (M is the midpoint)

Similarly $ON \perp CD$

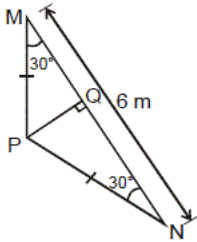
As $\angle MON = 60^\circ$,

$\therefore \angle OMN = \angle ONM = 60^\circ$

$\therefore \angle PMN = \angle PNM = 90 - 60 = 30^\circ$

$\Rightarrow PM = PN$

Now, in $\triangle PMN$, which is an isosceles \triangle ,



$PQ \perp MN$

$MQ = QN = 3\text{m}$

\therefore In $\triangle PQN$,

$$\cos 30^\circ = \frac{3}{PN}$$

$$\Rightarrow \frac{\sqrt{3}}{2} = \frac{3}{PN}$$

$$\Rightarrow PN = 2\sqrt{3}\text{m}$$

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Q.22 [11746091]

A Financial Analyst estimates that the probability that the economy will experience recession in next one year is 30%. He also believes that in case of recession, the probability that his mutual funds will increase in value is 20%. He also believes that if there is no recession the probability that the value of mutual funds will increase in value is 75%. Find the probability that mutual funds value will increase.

1 ☐ 0.285

2 ☐ 0.525

3 ☐ 0.585

4 ☐ 0.60

Solution:

Correct Answer : 3

[Answer key/Solut](#)

$$\text{Required probability} = \frac{30}{100} \times \frac{20}{100} + \frac{70}{100} \times \frac{75}{100}$$

$$= \frac{3}{50} + \frac{21}{40}$$

$$= \frac{117}{200} = 0.585.$$

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Q.23 [11746091]

Two cities Mathura and Agra, 48 kms apart, are located on the bank of River Yamuna. A motorboat goes from Mathura to Agra and returns back as soon as possible. Yamuna flows at a speed of 6 km/hr. The motorboat completes the trip from Mathura to Agra and back in not more than 6 hours. Assuming the motorboat does not halt at Agra, what should be the minimum speed of motorboat in still water?

1 ☐ 16 km/hr

2 ☐ 18 km/hr

3 ☐ 25 km/hr

4 ☐ 27 km/hr

Solution:

Correct Answer : 2

Let the speed of motorboat in still water be 'u' km/hr.

Now, according to the question,

$$\frac{48}{u+6} + \frac{48}{u-6} \leq 6$$

$$\frac{48(u-6+u+6)}{u^2-36} \leq 6$$

$$48 \times 2u \leq 6(u^2-36)$$

$$16u \leq u^2-36$$

$$\Rightarrow u^2-16u-36 \geq 0$$

$$\Rightarrow u^2-18u+2u-36 \geq 0$$

$$\Rightarrow (u+2)(u-18) \geq 0$$

$$\Rightarrow u \geq 18$$

$$\therefore u_{\min} = 18 \text{ km/hr.}$$

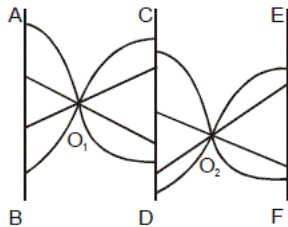
[Answer key/Solution](#)

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Q.24 [11746091]

Refer to the figure given below. AB, CD and EF are three parallel paths. A person starts from AB to reach EF by moving in four steps - moving from AB to O_1 in step 1, from O_1 to CD in step 2, from CD to O_2 in step 3 and from O_2 to EF in step 4. If he takes a curved path in one step, he cannot take a curved path in the next step. In how many ways the person can reach EF from AB?



1 ☐ 128

2 ☐ 256

3 ☐ 32

4 ☐ 64

Solution:

Correct Answer : 1

[Answer key/Solut](#)

The total number of ways in which the person can reach EF from AB without considering the given condition in the question = $4 \times 4 \times 4 \times 4 = 256$

That means the possible number of ways will be definitely less than 256 if we consider the given condition. So, option (2) is rejected.

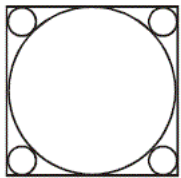
Now, from AB to O_1 , there are 4 paths, then from O_1 to CD, 2 paths (not considering curved paths), then from CD to O_2 again 4 paths and then from O_2 to EF, we consider 2 paths (as after taking curved path in one step, he cannot take a curved path in the next path) i.e., number of cases in this way = $4 \times 2 \times 4 \times 2 = 64$. But there are other possible ways also, that means, our answer is definitely more than 64. Therefore, options (3) and (4) are rejected. Hence, only option (1) is correct.

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Q.25 [11746091]

In the figure, a circle of radius 2 cm is inscribed in a square. There are four smaller circles at each of the corner of the square. What is the total area covered by all the five circles



1 ☐ $4\pi + 4\pi(6 - 4\sqrt{2})^2 \text{ cm}^2$

2 ☐ $4\pi + 4\pi(3 - 2\sqrt{2})^2 \text{ cm}^2$

3 ☐ $4\pi + 4\pi(12 - 8\sqrt{2})^2 \text{ cm}^2$

4 ☐ $4\pi + 4\pi(9 - 6\sqrt{2})^2 \text{ cm}^2$

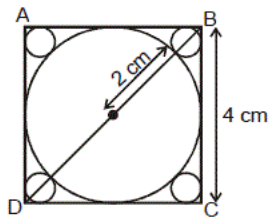
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Solution:

Correct Answer : 1

Your Answer : 2

[Answer key/Solut](#)

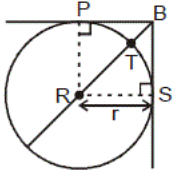


Radius of the bigger circle = 2 cm

\therefore Side of the square = 4 cm

\Rightarrow Diagonal of the square = $4\sqrt{2}$ cm

Let the radius of the smaller circles be 'r'.



\therefore PB = BS = SR = RP = r

\therefore BR = $\sqrt{2}r$

\therefore Diagonal of the bigger square ABCD in terms of

$$r = 2 + 2 + 2(r + \sqrt{2}r)$$

$$= 4 + 2r + 2\sqrt{2}r$$

$$\Rightarrow 4 + 2r + 2\sqrt{2}r = 4\sqrt{2}$$

$$2r(1 + \sqrt{2}) = 4(\sqrt{2} - 1)$$

$$\Rightarrow r = \frac{2(\sqrt{2} - 1)}{\sqrt{2} + 1}$$

$$\Rightarrow r = \frac{2(\sqrt{2} - 1)}{\sqrt{2} + 1} \times \frac{(\sqrt{2} - 1)}{(\sqrt{2} - 1)}$$

$$\Rightarrow r = 6 - 4\sqrt{2} \text{ cm}$$

Hence, the total area covered by all the five circles

$$= \pi(2)^2 + 4\pi(6 - 4\sqrt{2})^2$$

$$= 4\pi + 4\pi(6 - 4\sqrt{2})^2 \text{ cm}^2.$$

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Sec 2

Directions for questions 26 to 29: Read the passage and answer the questions.

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Humans are not exactly lemmings, but they are easily influenced by the statements and deeds of others. (Again by the way, lemmings do not really commit mass suicide by follo one another into the ocean. Our widely shared and somewhat defamatory beliefs about lemmings are based on an all- too-human urban legend-that is, people believe this becau they are following other people. By contrast, the tale of mass suicide at Jonestown is no legend.) If you see a movie scene in which people are smiling, you are more likely to sm yourself (whether or not the movie is funny); yawns are contagious, too. Conventional wisdom has it that if two people live together for a long time, they start to look like each ot This bit of folk wisdom turns out to be true. (For the curious: they grow to look alike partly because of nutrition-shared diets and eating habits-but much of the effect is simple imitation of facial expressions.) In fact couples who end up looking alike also tend to be happier! Here, we try to understand how and why social influences work. An understand those influences is important in our context for two reasons. First, most people learn from others. This is usually good, of course. Learning from others is how individuals and societies develop. But many of our biggest misconceptions also come from others. When social influences have caused people to have false or biased beliefs, then some nudg may help. The second reason why this topic is important for our purposes is that one of the most effective ways to nudge (for good or evil) is via social influence. In Jonestown, influence was so strong that an entire population committed suicide. But social influences have also created miracles, large and small. In many cities, including ours, dog owner now carry plastic bags when they walk their dogs, and strolling through the park has become much more pleasant as a result. This has happened even though the risk of being f for unclean dog walking is essentially zero. Choice architects need to know how to encourage other socially beneficial behavior, and also how to discourage events like the one t occurred in Jonestown. Social influences come in two basic categories. The first involves information. If many people do something or think something, their actions and their thoughts convey information about what might be best for you to do or think. The second involves peer pressure. If you care about what other people think about you (perhaps i mistaken belief that they are paying some attention to what you are doing-see below), then you might go along with the crowd to avoid their wrath or curry their favor. For a quick glance at the power of social nudges, consider just a few research findings:

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The bottom line is that Humans are easily nudged by other Humans. Why? One reason is that we like to conform.

Q.26 [11746091]

Identify the CORRECT statement:

- 1 ☐ Obesity is sporadic.
- 2 ☐ Learning from others is good as it helps in the development of individuals and societies.
- 3 ☐ Similar looking couples seldom apery each other's facial expression.
- 4 ☐ Obesity may often be the result of information provided by peers.

Solution:

Correct Answer : 2

Apery refers to the action of imitating the behaviour or manner of someone, especially in an unthinking way. The passage clearly says that couples who have been married for long start looking similar because they unconsciously mimic each other's facial expression. The only information that is provided with respect to obesity is that if your friend gains weight, you are also likely to do so. Hence, only the second statement is correct.

 Answer key/Solut

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FeedBack

Directions for questions 26 to 29: Read the passage and answer the questions.

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The bottom line is that Humans are easily nudged by other Humans. Why? One reason is that we like to conform.

Q.27 [11746091]

Identify the CORRECT statement:

- 1 ☐ Inaccurate nudging occurs as a result of information that tells about the socially accepted behavior.
- 2 ☐ Successful nudging occurs as a result of the desire to avoid disapproval of others.
- 3 ☐ Nudging is pluralistic ignorance that leads to peer pressure.
- 4 ☐ Collective behaviours in a society prevents individuals from getting fined for inappropriate actions.

Solution:

Correct Answer : 2

 Answer key/Solut

Refer the lines, "If you care about what other people think about you (perhaps in the mistaken belief that they are paying some attention to what you are doing-see below), then you might go along with the crowd to avoid their wrath or curry their favor."

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FeedBack

Directions for questions 26 to 29: Read the passage and answer the questions.

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- The bottom line is that Humans are easily nudged by other Humans. Why? One reason is that we like to conform.

Q.28 [11746091]

Main idea in the passage is about:

- 1 ☐ Causes and prevention of mass suicide.
- 2 ☐ Mindset problems of some economists.
- 3 ☐ Contagious nature of human emotion.
- 4 ☐ Behavior is the result of following the herd.

Solution:

Correct Answer : 4

 Answer key/Solution

The passage is concerned with explaining the fact that most human behaviour is guided by societal norms and is prone to 'nudges' by society. Thus, option 4 is correct. The reference to mass suicides in Jonestown is made in order to set the context for the discussion. Similarly, economists are discussed in a limited capacity. The third option is quite vague in its construction.

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Feedback

Directions for questions 26 to 29: Read the passage and answer the questions.

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Q.29 [11746091]

Given below are four statements

Statement I : Republican appointees are conservative.

Statement II : Democratic appointees are liberal.

Statement III : Three judge panels are known for inaccurate decisions.

Statement IV : Dormitory students are better performers in college.

In light of the above statements, choose the **most appropriate** answer from the options given below

1 ☐ (III) and (IV) are correct.

2 ☐ (III) and (IV) are incorrect.

3 ☐ (I) and (II) are incorrect.

4 ☐ (I) and (III) are correct.

Solution:

Correct Answer : 2

The third and fourth statements are incorrect as they find no evidence in the passage.

 Answer key/Solut

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FeedBack

Directions for questions 30 to 33: Read the passage and answer the questions.

Cultural arguments once loomed large in explanations of the ways in which countries differed economically and politically. Economists mostly abandoned such reasoning in the century, not only because it provided cover for racists but also because of its lack of explanatory power. In 1970 Robert Solow, a Nobel prize winner, quipped that attempts to explain growth with variables such as culture generally ended up "in a blaze of amateur sociology". This position is changing, however, and not before time. A better grasp of how culture work may be needed to understand modern political economy.

The responsible intellectual use of cultural argument begins with clear terminology. In "A Culture of Growth", published in 2016, Joel Mokyr, an economic historian at Northwestern University describes culture as a set of beliefs, values, and preferences, capable of affecting behaviour, that are socially (not genetically) transmitted and that are shared by some subset of society". Economists typically treat rational self-interest as the lodestar of human behaviour. But Mr Mokyr recognises that acquired social codes also influence individual choices, and thus broader economic activity. Culture is not immutable, as those who ascribe countries' diverging fates to deep-rooted cultural attributes often suggest. It evolves: the ideas and influence of different groups shift.

Cultural evolution is essential to the thesis of "A Culture of Growth", which attempts to explain why sustained growth began where and when it did. Mr Mokyr says that factors of credit with kick-starting industrialisationsuch as capital accumulation and the cost and supply of certain kinds of labour- may be necessary but are not sufficient. The true catalyst was a continent-wide evolution in beliefs. In Europe between the 16th and 18th centuries, a group of intellectuals often called the "Republic of Letters" groped their way towards a bold new view of nature and knowledge. Francis Bacon, an English intellectual and early contributor to the movement, thought that through disinterested and open inquiry, nature's secrets could be understood and then manipulated to the benefit of humankind. Such views helped nurture the Scientific Revolution and the Enlightenment, but also percolated through society, influencing behaviour. Once the notion became widespread that objective knowledge was possible and could be used to improve people's lives, the emergence of self-sustaining economic growth was nearinevitable.

In a recent essay Enrico Spolaore of Tufts University writes that Mr Mokyr's ideas show how economists might make better use of culture. He does not simply argue that Europe industrialized first because of a particular European cultural way of being. Rather, he identifies a specific cultural change - the rise of an evidence-based, humanistic approach to scientific inquiry- which led to a shift in behaviour that enabled industrialisation. He contrasts this with, for example, China, where rationalistic schools of philosophy such as Mohism were eclipsed in intellectual circles by tradition-venerating Confucianism. China's fate is not down to something inherent in Chinese culture. Rather, history unfolded one way in one place, and another in another.

Q.30 [11746091]

The following statement best captures the theme of the passage:

- 1 ☐ Scientific revolution and enlightenment in Europe
- 2 ☐ Confucianism and Mohism in China
- 3 ☐ History unfolds in different ways in different countries
- 4 ☐ A society's values and beliefs matter for its economy



Solution:

Correct Answer : 4

Your Answer : 4

Only the fourth option captures the essence of the passage. The other options are limited in their scope.

 Answer key/Solution

Bookmark

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Q.31 [11746091]

In "A Culture of Growth" Mr Mokyr tries to analyse:

- 1 ☐ Why did sustained economic growth evade Europe?
- 2 ☐ What is the cause of crisis in the Eurozone?
- 3 ☐ Why did Industrial Revolution begin in Europe?
- 4 ☐ What social transformations are occurring in Europe today?



Solution:

Correct Answer : 3

Your Answer : 1

Refer the lines, "Cultural evolution is essential to the thesis of "A Culture of Growth", which attempts to explain why sustained growth began where and when it did."

Answer key/Solution

Bookmark

FeedBack

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Q.32 [11746091]

According to Mr Mokyr's thesis :

- 1 ☐ Culture affects behaviour and thus economic activity in a society.
- 2 ☐ Acquired social codes influence individual choices and therefore economic activity.
- 3 ☐ Factors usually associated with kick starting industrialisation are not sufficient to explain economic activity.
- 4 ☐ All the options hold.




Solution:

Correct Answer : 4

Your Answer : 4

All the statements given are consistent with the analysis provided by Mr. Mokyr.

 Answer key/Solution

Bookmark

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Q.33 [11746091]

Enrico Spolaore believes :

- 1 ☐ A cultural change that supported scientific enquiry was behind Europe's industrialisation
- 2 ☐ A rationalist school of philosophy could never rise in Europe
- 3 ☐ A rationalist school of philosophy thrived in China
- 4 ☐ Confucianism got eclipsed by Mohism in China

Solution:

Correct Answer : 1

 Answer key/Solution

Refer the lines, "He does not simply argue that Europe industrialized first because of a particular European cultural way of being. Rather, he identifies a specific cultural change - the rise of an evidencebased, humanistic approach to scientific inquirywhich led to a shift in behaviour that enabled industrialisation." The other options are incorrect.

Bookmark

FeedBack

Directions for questions 34 to 37: Read the passage and answer the questions.

To say that all individuals are embedded in and the product of society is banal. Obama rises above banality by means of fallacy: equating society with government, the collectivist with the state. Of course we are shaped by our milieu. But the most formative, most important influence on the individual is not government. It is civil society, those elements of collectivity that lie outside government: family, neighborhood, church, Rotary club, PTA, the voluntary associations that Tocqueville understood to be the genius of America and source of its energy and freedom. Moreover, the greatest threat to a robust, autonomous civil society is the ever-growing Leviathan state and those like Obama who see it as the ultimate expression of the collective. Obama compounds the fallacy by declaring the state to be the font of entrepreneurial success. How so? It created the infrastructure- roads bridges, schools. Internet-off which we all thrive. Absurd. We don't credit the Swiss postal service with the Special Theory of Relativity because it transmitted Einstein's manuscript in the Annalen der Physik. Everyone drives the roads, goes to school, uses the mails. So did Steve Jobs. Yet only he created the Mac and the iPad.

Obama's infrastructure argument is easily refuted by what is essentially a controlled social experiment. Roads and schools are the constant. What's variable is the energy, enterprising risk-taking, hard work and genius of the individual, it is therefore precisely those individual characteristics, not the communal utilities that account for the different outcomes. The ultimate Obama fallacy, however, is the conceit that belief in the value of infrastructure and willingness to invest in its creation and maintenance is what divides liberals from conservatives.

More nonsense. Infrastructure is not a liberal idea, nor is it particularly new. The Via Appia was built 2,300 years ago. The Romans built aqueducts, too. And sewers. Since forever infrastructure has been consensually understood to be a core function of government. The argument between left and right is about what you do beyond infrastructure. It's about transfer payments and redistributionist taxation, about geometrically expanding entitlements, about tax breaks and subsidies to induce actions pleasing to central planners. It's free contraceptives for privileged students and welfare without work- the latest Obama entitlement-by-decree that would fatally undermine the great bipartisan welfare reform of 1996.

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Limited government so conceived has two indispensable advantages. It avoids inexorable European-style national insolvency. And it avoids breeding debilitating individual dependency. It encourages and celebrates character, independence, energy, hard work as the foundations of a free society and a thriving economy- precisely the virtues Obama discounts and devalues in his accounting of the wealth of nations.

Q.34 [11746091]

The primary objective of the passage is to:

- 1 ☐ Praise the policy of Obama government
- 2 ☐ Present an argument for a provider government
- 3 ☐ Discuss the role and duties of a Government
- 4 ☐ Assess the differences between liberals and conservatives regarding their political philosophy only

Solution:

Correct Answer : 3

The primary purpose of the passage is to analyse the role and the various duties of a government. Obama's policies are viewed critically throughout the passage. Similarly, there is no argument given in favour of having a provider government. 'Only' makes option 4 incorrect.

 Answer key/Solution

Bookmark

FeedBack

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Q.35 [11746091]

With reference to the passage, which of the following statements is true?

- 1 ☐ Liberals conceived the idea of providing infrastructure to the citizens.
- 2 ☐ Conservatives believe that the state needs to facilitate deserving sections of society.
- 3 ☐ Leviathan state helps in nurturing the dreams of a free and prosperous society.
- 4 ☐ Hardwork and genius is constant for building a thriving society.

Solution:

Correct Answer : 2

 Answer key/Solution

Refer the lines. "For the conservative, providing for every need is the duty that government owes to actual orphan children. Not to supposedly autonomous adults. Beyond infrastructure, the conservative sees the proper role of government as providing not European-style universal entitlements but a firm safety net, meaning Julia-like treatment for those who really cannot make it on their own-those too young or too old, too mentally or physically impaired to provide for themselves."

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Q.36 [11746091]

According to the passage, the greatest threat to the civil society is:

- 1 ☐ The infrastructure created by the state
- 2 ☐ Great and populist leaders like Obama
- 3 ☐ The state's role as a provider state
- 4 ☐ Not giving credit to the government for undertaking welfare projects

Solution:

Correct Answer : 3

Refer the lines, "The only time she's on her own is at her grave site. Julia's world is totally atomized. It contains no friends, no community and, of course, no spouse. Who needs one? She's married to the provider state."

 Answer key/Solution

Bookmark

FeedBack

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Q.37 [11746091]

According to the passage, which of the following statement is false?

- 1 ☐ Leviathan state is not a harbinger of prosperity.
- 2 ☐ Building Infrastructure is not a liberal idea.
- 3 ☐ European governments do not provide privileges to all.
- 4 ☐ Provider state debilitates individual character.

Solution:

Correct Answer : 3

Refer to the second last paragraph where the author mentions, "Beyond infrastructure, ... European style universal entitlements" Therefore, from the passage, we know that European governments provide privileges.

 Answer key/Solution

Bookmark

FeedBack

Directions for questions 38 to 41: Read the passage and answer the questions.

As Western holiday makers escape their daily grind and head to the beach this summer, a concern is likely to resurface- literally really, if it washes up on the pristine sand in front of them. In the past two years plastic litter in the ocean seems to have eclipsed other environmental anxieties among rich-world consumers. Harrowing images of sea life ensnared in plastic bags, as depicted in "Blue Planet II", a popular British television series from 2017 presented by Sir David Attenborough, would be enough to make any one choke on the plastic straw in their pina colada-if, that is, you were offered one. Politicians everywhere are responding to voters' demands by banning straws, stirrers and other single-use plastics. The Guardian says that last year 127 countries had restrictions on plastic bags. This month Panama became the first Central American country to outlaw them. Britain is considering a tax on plastic packaging made with less than 30% recycled content. In March 560 members of the European Parliament backed a law that would require 90% of plastic bottles to be recycled by 2029. Just 35 voted against.

Given the environmental footprint of substitutes like cotton bags, aluminium cans or paper boxes- which often require more energy and water to make and transport than plastic equivalents- new regulations could in fact end up doing harm to the planet. Nonetheless the plastics industry can expect ever more curbs on its products, a trend that will force businesses involved to reshape. Bottles, boxes, films and the like consume nearly half of global output of the polymers on which they rely. Many companies in the \$375bn plastic packaging value chain-which comprises producers of oil and gas (the main feedstock), petrochemical giants, packaging firms and consumer brands-look ill-prepared.

Companies at either end of the chain are the least vulnerable. Beverage-makers will happily switch from oil-derived plastic to recycled stuff for their bottles-or to aluminium cans as long as the numbers add up (which they do when high oil prices push up the cost of virgin plastic). Even so, ExxonMobil or Coca-Cola cannot relax. Seema Suchak of Schroders, asset manager, estimates that fizzy-drinks firms that fail to reduce their reliance on virgin plastics could see annual profits shrink by 5% over the next decade or so because of regulations and taxes spurred by the consumer backlash. According to Paul Bjacek of Accenture, a consultancy, recycling all plastic packaging, rather than the 1% that is reused today, could cut annual growth in demand for oil and gas from 1% to 0.5% by 2040 as recycled materials gain market share.

Plastic packaging firms could suffer more. Credit-raters at Moody's have warned that Britain's proposed tax on plastic bottles could hurt their makers by discouraging use by consumer goods companies and driving up the cost of recycled plastic, a scarce raw material as recycling rates are low. Ms Suchak looked at five big makers of plastic packaging and found that the pre-tax profits of four of them could fall by 11-33% in the medium term if they stick with virgin plastics. Amcor, an Australian giant, lists environmental concern as the number-one risk in its latest annual report.

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Q.38 [11746091]

The political response to the people's environmental concern is:

- 1 ☐ Promote single use plastic packaging
- 2 ☐ Encouraging recycled plastics in packaging
- 3 ☐ Banning virgin plastics
- 4 ☐ Banning petrochemicals used in plastics

Solution:

Correct Answer : 2

Refer to the first paragraph where the author mentions about the European Parliament. It is obvious that recycling seems to be the mantra for the politicians.

 Answer key/Solution

Bookmark

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Directions for questions 38 to 41: Read the passage and answer the questions.

As Western holiday makers escape their daily grind and head to the beach this summer, a concern is likely to resurface- literally really, if it washes up on the pristine sand in front of them. In the past two years plastic litter in the ocean seems to have eclipsed other environmental anxieties among rich-world consumers. Harrowing images of sea life ensnared in plastic bags, as depicted in "Blue Planet II", a popular British television series from 2017 presented by Sir David Attenborough, would be enough to make any one choke on the plastic straw in their pina colada-if, that is, you were offered one. Politicians everywhere are responding to voters' demands by banning straws, stirrers and other single-use plastics. The BBC says that last year 127 countries had restrictions on plastic bags. This month Panama became the first Central American country to outlaw them. Britain is considering a tax on plastic packaging made with less than 30% recycled content. In March 560 members of the European Parliament backed a law that would require 90% of plastic bottles to be recycled by 2029. Just 35 voted against.

Given the environmental footprint of substitutes like cotton bags, aluminium cans or paper boxes- which often require more energy and water to make and transport than plastic equivalents- new regulations could in fact end up doing harm to the planet. Nonetheless the plastics industry can expect ever more curbs on its products, a trend that will force businesses involved to reshape. Bottles, boxes, films and the like consume nearly half of global output of the polymers on which they rely. Many companies in the \$375bn plastic packaging value chain-which comprises producers of oil and gas (the main feedstock), petrochemical giants, packaging firms and consumer brands-look ill-prepared.

Companies at either end of the chain are the least vulnerable. Beverage-makers will happily switch from oil-derived plastic to recycled stuff for their bottles-or to aluminium cans as long as the numbers add up (which they do when high oil prices push up the cost of virgin plastic). Even so, ExxonMobil or Coca-Cola cannot relax. Seema Suchak of Schroders, asset manager, estimates that fizzy-drinks firms that fail to reduce their reliance on virgin plastics could see annual profits shrink by 5% over the next decade or so because of regulations and taxes spurred by the consumer backlash. According to Paul Bjacek of Accenture, a consultancy, recycling all plastic packaging, rather than the 1% that is reused today could cut annual growth in demand for oil and gas from 1% to 0.5% by 2040 as recycled materials gain market share.

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Q.39 [11746091]

The correct sequence in the plastic packaging value chain is:

1 ☐ Oil Companies, Petrochemical Companies, Packaging Companies, and Consumer Products Companies

2 ☐ Petrochemical Companies, Oil Companies, Packaging Companies, and Consumer Products Companies

3 ☐ Oil Companies, Petrochemical Companies, Consumer Products Companies, and Packaging Companies

4 ☐ Consumer Product Companies, Oil Companies, Petrochemicals Companies, and Packaging Companies

Solution:

Correct Answer : 1

Refer to the last sentence of the second paragraph where the sequence is mentioned.

 Answer key/Solution

Bookmark

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Directions for questions 38 to 41: Read the passage and answer the questions.

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Given the environmental footprint of substitutes like cotton bags, aluminium cans or paper boxes- which often require more energy and water to make and transport than plastic equivalents- new regulations could in fact end up doing harm to the planet. Nonetheless the plastics industry can expect ever more curbs on its products, a trend that will force businesses involved to reshape. Bottles, boxes, films and the like consume nearly half of global output of the polymers on which they rely. Many companies in the \$375bn plastic packaging value chain-which comprises producers of oil and gas (the main feedstock), petrochemical giants, packaging firms and consumer brands-look ill-prepared.

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Q.40 [11746091]

The new regulations on Plastic Packaging could end up doing more harm to the planet because:

1 ☐ It will disrupt the plastic packaging value chain.

2 ☐ The prices of consumer products will increase.


3 ☐ Environmental footprints of substitutes is higher.

4 ☐ Recycled plastic is not safe to use.

Solution:

Correct Answer : 3

Refer to the first sentence of the second paragraph where the author mentions the negative sides of the new regulations that govern plastic packaging.

 Answer key/Solution

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Directions for questions 38 to 41: Read the passage and answer the questions.

As Western holiday makers escape their daily grind and head to the beach this summer, a concern is likely to resurface- literally really, if it washes up on the pristine sand in front of them. In the past two years plastic litter in the ocean seems to have eclipsed other environmental anxieties among rich-world consumers. Harrowing images of sea life ensnared in plastic bags, as depicted in "Blue Planet II", a popular British television series from 2017 presented by Sir David Attenborough, would be enough to make any one choke on the plastic straw in their pina colada-if, that is, you were offered one. Politicians everywhere are responding to voters' demands by banning straws, stirrers and other single-use plastics. The Guardian says that last year 127 countries had restrictions on plastic bags. This month Panama became the first Central American country to outlaw them. Britain is considering a tax on plastic packaging made with less than 30% recycled content. In March 560 members of the European Parliament backed a law that would require 90% of plastic bottles to be recycled by 2029. Just 35 voted against.

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Q.41 [11746091]

According to the author, the plastic related concerns in the rich countries have:

- 1 ☐ Overshadowed other environmental concerns
- 2 ☐ Created a strong lobby to resist any law that harms the interest of plastic packaging industry
- 3 ☐ Made plastic packaging industry to abandon the use of plastic
- 4 ☐ Made credit rating agencies and consultancy firms to advise the governments to not to act

Solution:

Correct Answer : 1

Refer to the second sentence of the passage where the author mentions how important the problem of plastic pollution has become for the rich and developed countries.

 Answer key/Solution

Bookmark

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Q.42 [11746091]

Find the most appropriate word from the given options, which best describes the meaning provided in the question.

Meaning: The study of elections

- 1 ☐ Campanology
- 2 ☐ Psephology
- 3 ☐ Paleology
- 4 ☐ Ecclesiology

Solution:

Correct Answer : 2

Psephology means the statistical study of elections and trends in voting.

 Answer key/Solution

Bookmark

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Q.43 [11746091]

Identify the option where usage of question mark is either incorrect or can be avoided.

- 1 ☐ Guess what?
- 2 ☐ Have you been to Taj Mahal?
- 3 ☐ Did you find the people very strange?
- 4 ☐ What is the capital of Belgium?

✕

Solution:

Correct Answer : 1

Your Answer : 2

'Guess what' is usually part of a statement. A comma usually follows the phrase. 'Guess what' is not used in an interrogative sense.

🔍 Answer key/Solut

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Q.44 [11746091]

A number of sentences are given below which, when properly sequenced, form a COHERENT PARAGRAPH, Choose the most LOGICAL ORDER of sentences from the choices given to construct a COHERENT PARAGRAPH.

- A. A belief is a feeling of certainty about a particular thing; it's a passive knowing.
- B. All human beings are basically just belief systems.
- C. Our perception of the world is rooted in our beliefs.
- D. Consequently, we all view the world differently.
- E. We live our lives based on the beliefs that we've acquired through our experiences and accumulation of knowledge.
- F. These beliefs are our individual truths that build our subjective realities.

- 1 ☐ BAFEDC
- 2 ☐ CFBAED
- 3 ☐ ABFECD
- 4 ☐ EBAFDC

✕

Solution:

Correct Answer : 2

Your Answer : 3

CFBAED CF is a mandatory pair. The beliefs mentioned in C are further explained in F. AED is a mandatory sequence. D concludes the paragraph. Note the transition word 'Consequently.' AE also form a mandatory pair. Both the sentences are connected thematically.

🔍 Answer key/Solut

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Q.45 [11746091]

Identify the appropriate meaning for the given root word

Root word: Trit (as in attrition)

- 1 ☐ Leave
- 2 ☐ Rub
- 3 ☐ Duration
- 4 ☐ Together

Solution:

Correct Answer : 2

'Trit' in Latin means to rub or to grind.

🔍 Answer key/Solut

Bookmark

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Q.46 [11746091]

Find the most appropriate word from the given options, which best describes the meaning provided in the question.

Meaning: The study of trains

1 ☐ Ferroequinology

2 ☐ Teratology

3 ☐ Locology

4 ☐ Locomology

Solution:

Correct Answer : 1

Ferroequinology (uncountable): The study of railways in general, especially locomotives.

 Answer key/Solut

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Q.47 [11746091]

Identify the appropriate meaning for the given root word

Root word: Somn (as in Somniloquy)

1 ☐ Multiple

2 ☐ More than two

3 ☐ Sleep

4 ☐ Star




Solution:

Correct Answer : 3

Your Answer : 3

"SOMN" comes from Latin for "sleep" "sleeping"; "dreams" and "dreaming"; some of the most common words with this root include "somnolent" "insomnia" and "somnambulist."

 Answer key/Solut

Bookmark

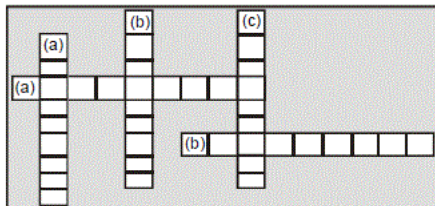
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Q.48 [11746091]

Use the following table

(i)	Coagulate	(vi)	Vacillate	(xi)	Facetious
(ii)	Veritable	(vii)	Burlesque	(xii)	Obeisance
(iii)	Obstinacy	(viii)	Grotesque	(xiii)	Charlatan
(iv)	Obfuscate	(ix)	Marsupial	(xiv)	Panegyric
(v)	Parochial	(x)	Connivance	(xv)	Spasmodic

Complete the crossword using words from the above table. There are more words than required.



Hints:

Across:

(a) Strange or ugly in a way that's not natural

(b) Narrow-minded; Provincial; Insular Down:

(a) Absolute; Genuine; Authentic; Actual

(b) Humorous; Light-hearted; Flippant

(c) a piece of writing or speech praising somebody/ something

Choose the correct option :

1 ☐ Across : (a) - (i); (b) - (ix);

Down : (a) - (ii); (b) - (xiv); (c) - (vi)

2 ☐ Across : (a) - (viii); (b) - (iv);

Down : (a) - (iii); (b) - (xiii); (c) - (xiv)

3 ☐ Across : (a)-(viii); (b) - (v);

Down : (a) - (ii); (b) - (xi); (c) - (xiv)

4 ☐ Across ; (a) - (vii); (b) - (v);

Down : (a) - (x); (b) - (xi); (c) - (xii)

Solution:

Correct Answer : 3

'Grotesque' refers to anything ugly. 'Parochial' refers to a narrow-minded and provincial attitude. 'Veritable' refers to something legitimate. Facetious refers to treating serious issues with deliberately inappropriate humour. Panegyric is a public speech or published text in praise of someone or something.

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[Answer key/Solut](#)

Q.49 [11746091]

Identify the appropriate meaning for the given root word:

Root word: Put (as in dispute/input)

1 ☐ Think

2 ☐ Pour

3 ☐ Knowledge

4 ☐ Contribute


✖

Solution:

Correct Answer : 1

Your Answer : 2

Think. 'Put' originated from the Latin word 'putare' which means 'think'.

 Answer key/Solut

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Q.50 [11746091]

Use the following table:

(i)	Coagulate	(vi)	Vacillate	(xi)	Facetious
(ii)	Veritable	(vii)	Burlesque	(xii)	Obeisance
(iii)	Obstinacy	(viii)	Grotesque	(xiii)	Charlatan
(iv)	Obfuscate	(ix)	Marsupial	(xiv)	Panegyric
(v)	Parochial	(x)	Connivance	(xv)	Spasmodic

Below given (a) and (b) explain the meaning/ synonym of two words from the above table. Identify the correct matching option from the choices given below:

(a) Parody; Caricature; Ridicule

(b) Clot; Thicken; Coalesce

1 ☐ (a)-(i);(b)-(ii)


2 ☐ (a) - (vii); (b) - (i)

3 ☐ (a) - (iv); (b) - (viii)

4 ☐ (a) - (xii); (b) - (xv)

Solution:

Correct Answer : 2

 Answer key/Solut

The correct matches are: (a)-(vii), (b)-(i). Burlesque means mockery and parody; caricature; and ridicule are its synonyms. Coagulate means congeal and clot; thicken; and coalesce are its synonyms. Veritable means absolute; genuine; authentic; actual. Obstinacy means stubbornness. Obfuscate means obscure. Parochial means narrow-minded; provincial; insular. Vacillate means waver or equivocate. Grotesque means strange or ugly in a way that is not natural. Mars is a type of mammal whose young ones are carried in the mother's pouch in the mother's belly. Connivance means involvement; responsibility; collusion. Facetious means humorous; lighthearted; flippant. Obeisance means respect; homage. Charlatan means impostor; fraud; quack. Panegyric is a piece of writing or speech praising somebody or something. Spasmodic means happening suddenly for brief periods of time but not regular or continuous.

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Q.51 [11746091]

Use the following table:

(i)	Coagulate	(vi)	Vacillate	(xi)	Facetious
(ii)	Veritable	(vii)	Burlesque	(xii)	Obeisance
(iii)	Obstinacy	(viii)	Grotesque	(xiii)	Charlatan
(iv)	Obfuscate	(ix)	Marsupial	(xiv)	Panegyric
(v)	Parochial	(x)	Connivance	(xv)	Spasmodic

Below given (a) and (b) explain the meaning/ synonym of two words from the above table. Identify the correct matching option from the choices given below:

(a) happening suddenly for brief periods of time but not regular or continuous

(b) Impostor; Fraud; Quack

1 ☐ (a) - (ii); (b) - (ix)


2 ☐ (a) - (v); (b) - (xii)

3 ☐ (a) - (x); (b) - (vi)

4 ☐ (a) - (xv); (b) - (xiii)

Solution:

Correct Answer : 4

 Answer key/Solut

The correct matches are: (a)-(xv); (b)-(xiii). Spasmodic means happening suddenly for brief periods of time but not regular or continuous. Charlatan means impostor; fraud; quack. Coagulate means congeal and clot; thicken; and coalesce are its synonyms. Veritable means absolute; genuine; authentic; actual. Obstinacy means stubbornness. Obfuscate means obscure. Parochial means narrow-minded; provincial; insular. Vacillate means waver or equivocate. Burlesque means mockery and parody; caricature; and ridicule are its synonyms. Grotesque means strange or ugly in a way that is not natural. Marsupial is a type of mammal whose young ones are carried in the mother's pouch in the mother's belly. Connivance means involvement; responsibility; collusion. Facetious means humorous; light-hearted; flippant. Obedience means respect; homage. Panegyric is a piece of writing or speech praising somebody or something.

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Q.52 [11746091]

Given below are four statements:

Statement I: The main purpose of the visit is to develop a closer relationship among the two countries.

Statement II: The main purpose of the visit is to develop a closer relationship between the two countries.

Statement III: Between all the magazines on the shelves, only one was of my interest.

Statement IV: Among all the magazines on the shelves, only few were of my interests.

In light of the above statements, choose the **correct** answer from the options given below:

1 ☐ Statement I and Statement II are correct.

2 ☐ Statement I and Statement III are correct.

3 ☐ Statement II and Statement IV are correct.

4 ☐ Only Statement II is correct.

✖

Solution:

Correct Answer : 4

 Answer key/Solut

Your Answer : 3

Only statement II is correct. The use of 'among' with 'the two countries' is incorrect in statement I. 'Between all the magazines' is incorrect in statement III. 'Among all the magazines' is incorrect in statement IV. Only statement II is grammatically correct as 'between' is correctly used here.

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Q.53 [11746091]

Given below are four statements:

Statement I: You must be pleased to hear that I've already got the tickets.

Statement II: You'll be pleased to hear that I've already got the tickets.

Statement III: I have friends who would love to stay at home, but they have to go to work.

Statement IV: I have friends who should love to stay at home, but they must go to work.

In light of the above statements, choose the correct answer from the options given below:

1 ☐ Statement I and Statement II are correct.

2 ☐ Statement II and Statement III are correct.


3 ☐ Statement II and Statement IV are correct.

4 ☐ Only Statement IV is correct.

✔

Solution:

Correct Answer : 2

 Answer key/Solut

Your Answer : 2

Statement II and statement III are correct. Since the news of booking the tickets has just been shared with the listener(s), future tense 'You'll' be the grammatically correct. 'You must be' would be a mere speculation. Statement III is a conditional a conditional sentence and so, it is correct. Statement IV uses 'should' which suggests obligation. Hence, option 2 is the answer.

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Q.54 [11746091]

Given below are four statements:

Statement I: First we listened to the tape, then we answered some question, and at last we wrote the story.

Statement II: First we listened to the tape, then we answered some questions, and finally we wrote the story.

Statement III: We went from one restaurant to another, but all of them were full. At last we decided to buy some pizzas and take them home.

Statement IV: We went from one restaurant to another, but all of them were full. In the end we decided to buy some pizzas and take them home.

In light of the above statements, choose the **correct** answer from the options given below:

1 ☐ Statement I and Statement II are correct.


2 ☐ Statement I and Statement III are correct.

3 ☐ Statement II and Statement IV are correct.

4 ☐ Only Statement IV is correct.

Solution:

Correct Answer : 3

 Answer key/Solut

Statement II and statement IV are correct. 'At last'; 'finally'; and 'in the end' all mean 'after a long period of time', however, 'at last' is used when there has been impatience or a discomfort due to a long delay. It has a negative connotation. 'Finally,' can be used both for negative and positive results. In statement II, it has a positive meaning. When something is concluded after a lot of changes, suggestions or some uncertainty, 'in the end' is used. Hence, statement II and statement IV are correct.

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Q.55 [11746091]

A number of sentences are given below which, when properly sequenced, form a COHERENT PARAGRAPH. Choose the most LOGICAL ORDER of sentences from the choices given to construct a COHERENT PARAGRAPH.

A. This is doubtful.

B. Paintings made in the first half of the 18th century show the members of one clan in different tartans, and even one clansman with separate tartans for his coat, waistcoat and it is unlikely that the clans kept strictly to particular tartans until the 19th century.

C. The oldest known painting showing Highland dress dates from about 1660, and few earlier records are reliable.

D. It is sometimes claimed that the different Scottish tartans served in ancient times to distinguish not only the different clans but also the ranks of the clansmen.

1 ☐ DACB

2 ☐ BDAC

3 ☐ BCAD

4 ☐ CBAD

✕

Solution:

Correct Answer : 1

 Answer key/Solut

Your Answer : 3

The correct sequence is DACB. Sentence D is the opening sentence as it looks at the claim that were different Scottish tartans to represent different clans and ranks of clansmen. This claim is doubted in sentence A. Then it is followed by C which refers to oldest painting of showing dress. This is further followed by sentence which talks about paintings of that show indicate that it is unlikely that clans strictly kept to particular tartans until the 19th century.

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Q.56 [11746091]

Match each word in the left hand column with description in the right hand column which best describes its meaning/synonym:

Word	Meaning
(a) Aggrandize	(i) Favourable; Likely to produce a successful result
(b) Foolhardy	(ii) Promote; Exalt; Honour
(c) Obsequious	(iii) Befuddle; Bewilder; Perplex
(d) Nonplus	(iv) Sycophantic; Submissive; Servile
(e) Propitious	(v) Reckless; Rash; Risky; Imprudent

Choose the correct option.

1 ☐ (a) - (i); (b) - (iii); (c) - (ii); (d) - (v); (e) - (iv)

2 ☐ (a) - (iii); (b) - (i); (c) - (ii); (d) - (iv); (e) - (v)


3 ☐ (a) - (ii); (b) - (v); (c) - (iv); (d) - (iii); (e) - (i)

4 ☐ (a) - (iv); (b) - (ii); (c) - (v); (d) - (i); (e) - (iii)

Solution:

Correct Answer : 3

The correct matches are: (a)-(ii); (b)-(v); (c)-(iv); (d)-(iii); (e)-(i). Aggrandize means glorify. So, promote; exalt; honour are its synonyms. Foolhardy means reckless; rash; risky; imprudent. Obsequious means toadying. So, sycophantic; submissive; servile are its synonym. Nonplus means befuddle; bewilder; perplex. Propitious means favourable or likely to produce a successful result.

 Answer key/Solut

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Q.57 [11746091]

A number of sentences are given below which, when properly sequenced, form a COHERENT PARAGRAPH. Choose the most LOGICAL ORDER of sentences from the choices given to construct a COHERENT PARAGRAPH.

- A. You may create a visual memory that you can retrace, but physically you cannot experience it again.
- B. Now is the only time you have.
- C. Nothing is more valuable than the present moment because you can never get it back.
- D. Once your past is gone, it doesn't exist, no matter how many times you recreate it mentally.
- E. The future hasn't even arrived; but again, you keep taking yourself there mentally.
- F. Tomorrow comes disguised as today and some of us don't even notice.

1 ☐ AFCEDB

2 ☐ DEACFB

3 ☐ ABCDEF

4 ☐ BDEFC A

Solution:

Correct Answer : 4

The correct sequence is BDEFC A. Sentence B is the opening sentence as it talks about the present time which is the only time one has. So, one's past is non-existent now and this is given sentence D. So is the future because we have not stepped into it yet. That makes BDE a mandatory sequence.

Sentence E is furthered in sentence F as it talks about tomorrow which is future. 'Today' in sentence F is emphasised in sentence C as 'the present moment'. This is the follow up by sentence A.

 Answer key/Solut

Bookmark

FeedBack

Q.58 [11746091]

Identify the appropriate meaning for the given root word
Root word: xyl (as in xylophone)

1 ☐ Wood

2 ☐ Strings

3 ☐ Many

4 ☐ Input



Solution:

Correct Answer : 1

Your Answer : 2

Wood. Xyl is a Greek word which relates to wood. Phone in xylophone means 'phone' or 'sound'.

 Answer key/Solut

Bookmark

FeedBack

Q.59 [11746091]

Identify the option where usage of question mark is either incorrect or can be avoided.

1 ☐ Did you try the wedges and chips?

2 ☐ Who is Walt Disney?

3 ☐ I asked if she had something in particular against the Belgian national character?

4 ☐ When did Jane leave for the market?



Solution:

Correct Answer : 3

Your Answer : 3

The sentence in option 3 is a reported speech. Thus, a question mark is not required at the end of it. Other sentences are interrogative sentences.

 Answer key/Solut

Bookmark

FeedBack

Q.60 [11746091]

Find the most appropriate word from the given options, which best describes the meaning provided in the question.

Meaning: Cheap or inferior goods

1 ☐ Perspicuous

2 ☐ Perspicacious

3 ☐ Schlock

4 ☐ Cornucopia

Solution:

Correct Answer : 3

Schlock is the answer. It means cheap or inferior goods. It is of Yiddish origin.

 Answer key/Solut

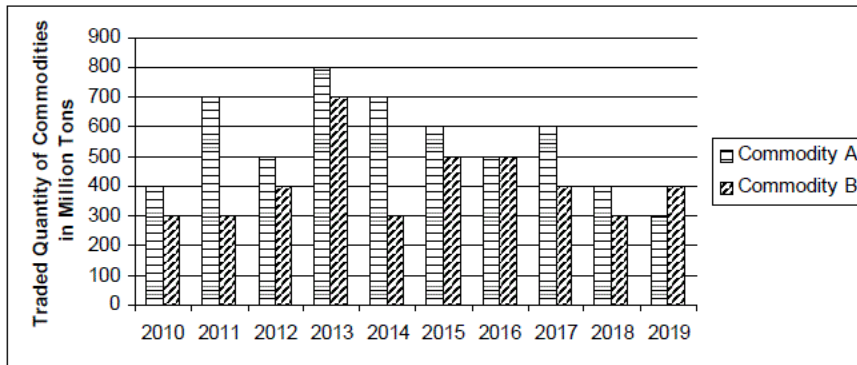
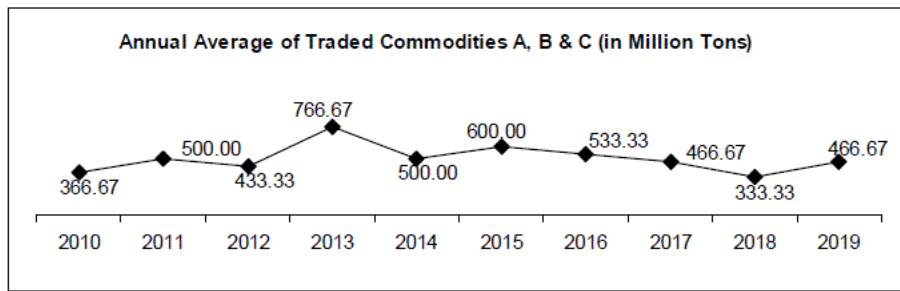
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FeedBack

Sec 3

Directions for questions 61 to 64: Answer the questions with the given information and the graph.

There are two wholesale markets (Rajapur mandi and Sivapur mandi) in a state, where commodities are traded between buyers and sellers. Commodity A and Commodity B are traded in Rajapur mandi whereas Commodity C is traded in Sivapur mandi. First graph given below shows yearly average traded quantity of all commodities in the state. The second graph shows yearly traded quantities of Commodity A and Commodity B in the wholesale market of Rajapur mandi.



Q.61 [11746091]

How many times the annual percentage change in the quantity traded of any commodity in the state is same in two consecutive years?

1 ☐ 0

2 ☐ 1

3 ☐ 2

4 ☐ 3

Solution:

Correct Answer : 1

[Answer key/Solut](#)

	A	Percentage change	B	Percentage change	C	Percentage change	Average
2010	400		300		400.01		366.67
2011	700	300/4	300	0	500	24.99	500
2012	500	200/7	400	100/3	399.99	20.002	433.33
2013	800	300/5	700	300/4	800.01	100.01	766.67
2014	700	100/8	300	400/7	500	37.5	500
2015	600	100/7	500	200/3	700	40	600
2016	500	100/6	500	0	599.99	14.29	533.33
2017	600	100/5	400	100/5	400.01	33.33	466.67
2018	400	100/3	300	100/4	299.99	25	333.33
2019	300	100/4	400	100/3	700.01	133.34	466.67

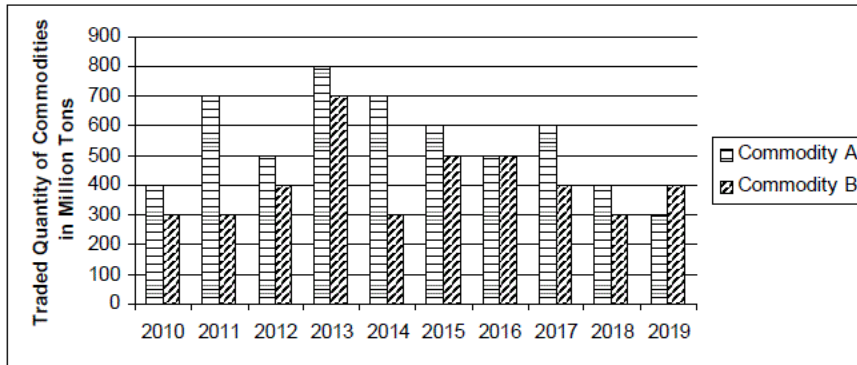
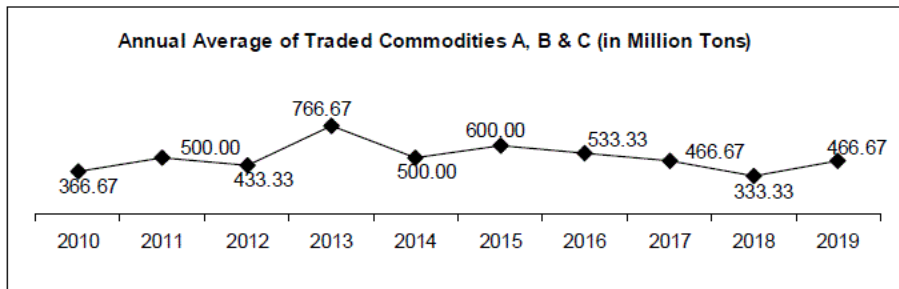
Since the percentage change for any two consecutive years is not same for any product, therefore, the answer is 0.

Bookmark

FeedBack

Directions for questions 61 to 64: Answer the questions with the given information and the graph.

There are two wholesale markets (Rajapur mandi and Sivapur mandi) in a state, where commodities are traded between buyers and sellers. Commodity A and Commodity B are traded in Rajapur mandi whereas Commodity C is traded in Sivapur mandi. First graph given below shows yearly average traded quantity of all commodities in the state. The second graph shows yearly traded quantities of Commodity A and Commodity B in the wholesale market of Rajapur mandi.



Q.62 [11746091]

How many times, the annual average traded quantity in Rajapur mandi has been lower than quantity of Commodity C traded in Sivapur mandi?

1 ☐ 3

2 ☐ 4

3 ☐ 5

4 ☐ 6

Solution:

Correct Answer : 3

[Answer key/Solut](#)

	A	B	Average of A and B	C	Total Average
2010	400	300	350	400.01	366.67
2011	700	300	500	500	500
2012	500	400	450	399.99	433.33
2013	800	700	750	800.01	766.67
2014	700	300	500	500	500
2015	600	500	550	700	600
2016	500	500	500	599.99	533.33
2017	600	400	500	400.01	466.67
2018	400	300	350	299.99	333.33
2019	300	400	350	700.01	466.67

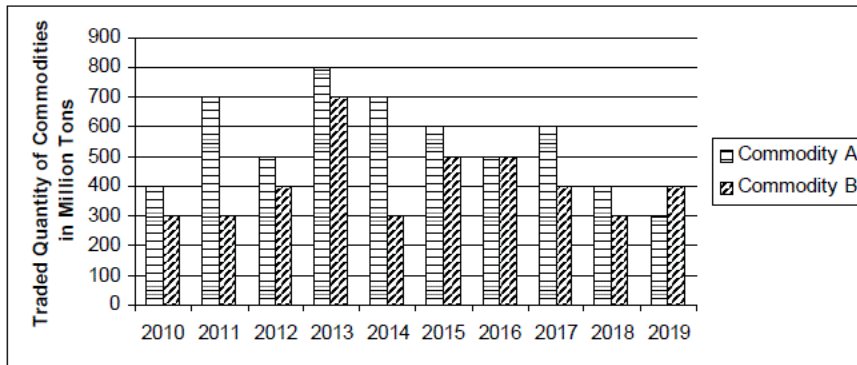
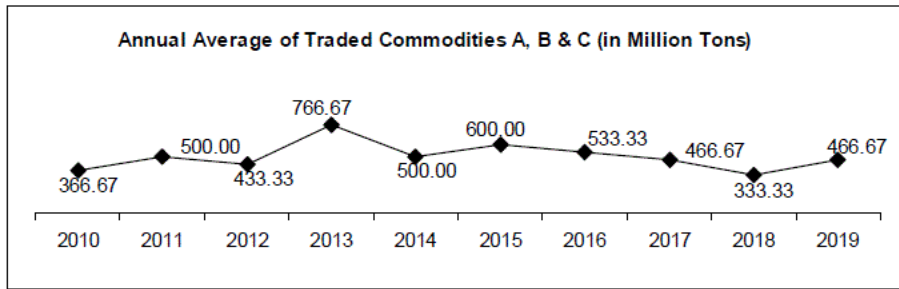
In above table, the average of the commodities for item A and B is less than the commodity C.

[Bookmark](#)

[FeedBack](#)

Directions for questions 61 to 64: Answer the questions with the given information and the graph.

There are two wholesale markets (Rajapur mandi and Sivapur mandi) in a state, where commodities are traded between buyers and sellers. Commodity A and Commodity B are traded in Rajapur mandi whereas Commodity C is traded in Sivapur mandi. First graph given below shows yearly average traded quantity of all commodities in the state. The second graph shows yearly traded quantities of Commodity A and Commodity B in the wholesale market of Rajapur mandi.



Q.63 [11746091]

How many times, the annual traded quantity in Sivapur mandi has been approximately same as quantities traded annually of any item in Rajapur mandi?

1 ☐ 4

2 ☐ 5

3 ☐ 6

4 ☐ 7

Solution:

Correct Answer : 2

[Answer key/Solut](#)

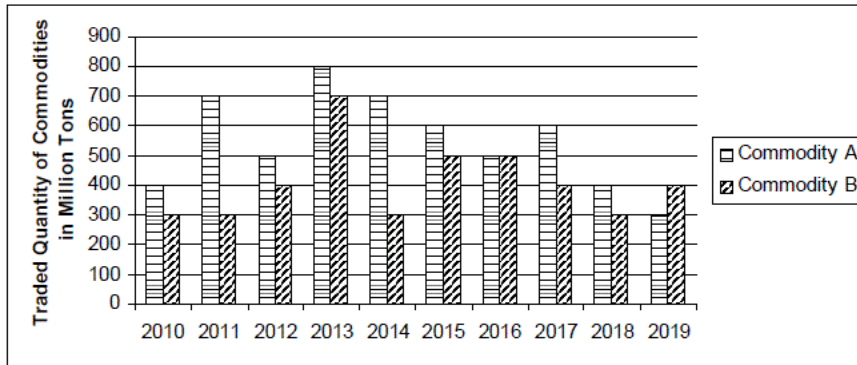
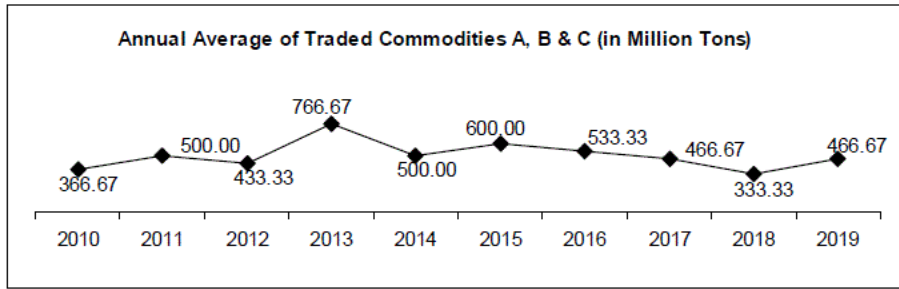
	Rajapur Mandi			Sivapur Mandi	
	A	B	Average of A and B	C	Total Average
2010	400	300	350	400.01	366.67
2011	700	300	500	500	500
2012	500	400	450	399.99	433.33
2013	800	700	750	800.01	766.67
2014	700	300	500	500	500
2015	600	500	550	700	600
2016	500	500	500	599.99	533.33
2017	600	400	500	400.01	466.67
2018	400	300	350	299.99	333.33
2019	300	400	350	700.01	466.67

Bookmark

FeedBack

Directions for questions 61 to 64: Answer the questions with the given information and the graph.

There are two wholesale markets (Rajapur mandi and Sivapur mandi) in a state, where commodities are traded between buyers and sellers. Commodity A and Commodity B are traded in Rajapur mandi whereas Commodity C is traded in Sivapur mandi. First graph given below shows yearly average traded quantity of all commodities in the state. The second graph shows yearly traded quantities of Commodity A and Commodity B in the wholesale market of Rajapur mandi.



Q.64 [11746091]

From the years given below, in which year annual percentage change in Commodity C has been lowest?

- 1 ☐ 2014
- 2 ☐ 2015
- 3 ☐ 2017
- 4 ☐ 2018

Solution:

Correct Answer : 4

[Answer key/Solut](#)

	A	B	C	Percentage change	Average
2010	400	300	400.01		366.67
2011	700	300	500	24.99	500
2012	500	400	399.99	20.002	433.33
2013	800	700	800.01	100.01	766.67
2014	700	300	500	37.5	500
2015	600	500	700	40	600
2016	500	500	599.99	14.29	533.33
2017	600	400	400.01	33.33	466.67
2018	400	300	299.99	25 (Lowest)	333.33
2019	300	400	700.01	133.34	466.67

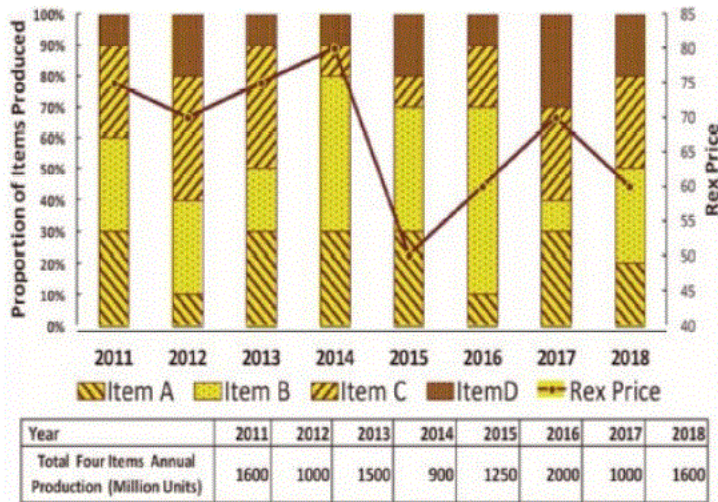
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FeedBack

Directions for questions 65 to 68: Answer the questions with the given information and the graph.

Alpha company uses Rex as main raw material for manufacturing Item A, Item B, Item C and Item D. The graph below shows the proportion of items produced and price trend of Annual Res_Index of an item in a given year is measured as follows:

Res_Index of Item A in Year 2013 = Absolute Value (Production of Item A in 2013- Production of Item A in 2012) / Absolute Value (Rex Price in 2013 - Rex Price in 2012)



Q.65 [11746091]

In which year, Rex Price had highest percentage increase?

1 ☐ 2015

2 ☐ 2016

3 ☐ 2017

4 ☐ 2018

Solution:

Correct Answer : 2

From the given information following table can be drawn:

	item A	Item B	item C	item D	total	Rex price
2011	480	480	480	160	1600	75
2012	100	300	400	200	1000	70
2013	450	300	600	150	1500	75
2014	270	450	90	90	900	80
2015	375	500	125	250	1250	50
2016	200	1200	400	200	2000	60
2017	300	100	300	300	1000	70
2018	320	480	480	320	1600	60

There is an increase in the price of Rex in four years, i.e., 2013, 2014, 2016 and 2017, out of which maximum increase is of 20% in year 2016.

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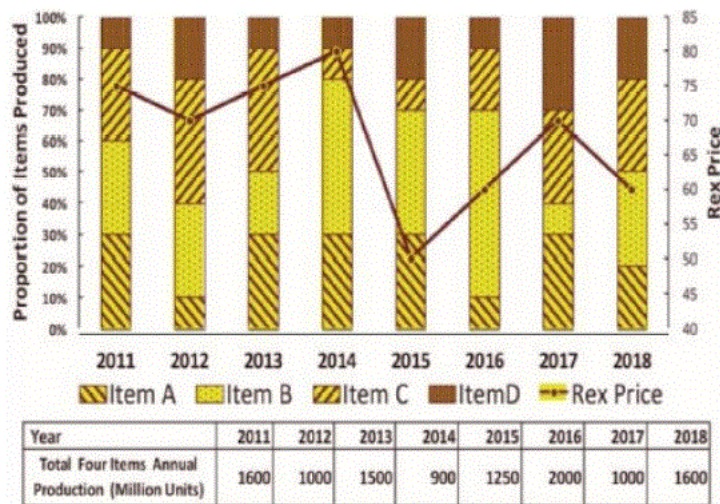
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Answer key/Solut

Directions for questions 65 to 68: Answer the questions with the given information and the graph.

Alpha company uses Rex as main raw material for manufacturing Item A, Item B, Item C and Item D. The graph below shows the proportion of items produced and price trend of Annual Res_Index of an item in a given year is measured as follows:

Res_Index of Item A in Year 2013 = Absolute Value (Production of Item A in 2013- Production of Item A in 2012) / Absolute Value (Rex Price in 2013 - Rex Price in 2012)



Q.66 [11746091]

From the years mentioned below, in which year average Res_Index of all items manufactured was highest?

1 ☐ 2012

2 ☐ 2013

3 ☐ 2016

4 ☐ 2017

Solution:

Correct Answer : 4

[Answer key/Solut](#)

From the given information following table can be drawn:

	item A	Item B	item C	item D	total	Rex price
2011	480	480	480	160	1600	75
2012	100	300	400	200	1000	70
2013	450	300	600	150	1500	75
2014	270	450	90	90	900	80
2015	375	500	125	250	1250	50
2016	200	1200	400	200	2000	60
2017	300	100	300	300	1000	70
2018	320	480	480	320	1600	60

In year 2012,

$$\text{Res_Index of Item A} = \frac{|100 - 480|}{|70 - 75|} = \frac{380}{5} = 76, \text{Res_Index of Item B} = \frac{|300 - 480|}{|70 - 75|} = \frac{180}{5} = 36,$$

$$\text{Res_Index of Item C} = \frac{|400 - 480|}{|70 - 75|} = \frac{80}{5} = 16, \text{Res_Index of Item D} = \frac{|200 - 160|}{|70 - 75|} = \frac{40}{5} = 8$$

$$\text{Average} = \frac{76 + 36 + 16 + 8}{4} = 34$$

In year 2013,

$$\text{Res_Index of Item A} = \frac{|450 - 100|}{|75 - 70|} = \frac{350}{5} = 70, \text{Res_Index of Item B} = \frac{|300 - 300|}{|75 - 70|} = 0,$$

$$\text{Res_Index of Item C} = \frac{|600 - 400|}{|75 - 70|} = \frac{200}{5} = 40, \text{Res_Index of Item D} = \frac{|150 - 200|}{|75 - 70|} = \frac{50}{5} = 10$$

$$\text{Average} = \frac{70 + 0 + 40 + 10}{4} = 30$$

In year 2016,

$$\text{Res_Index of Item A} = \frac{|200 - 375|}{|60 - 50|} = \frac{175}{10} = 17.5, \text{Res_Index of Item B} = \frac{|1200 - 500|}{|60 - 50|} = \frac{700}{10} = 70,$$

$$\text{Res_Index of Item C} = \frac{|400 - 125|}{|60 - 50|} = \frac{275}{10} = 27.5, \text{Res_Index of Item D} = \frac{|200 - 250|}{|60 - 50|} = \frac{50}{10} = 5$$

$$\text{Average} = \frac{17.5 + 70 + 27.5 + 5}{4} = 30$$

In year 2017,

$$\text{Res_Index of Item A} = \frac{|300 - 200|}{|70 - 60|} = \frac{100}{10} = 10, \text{Res_Index of Item B} = \frac{|100 - 1200|}{|70 - 60|} = \frac{1100}{10} = 110,$$

$$\text{Res_Index of Item C} = \frac{|300 - 400|}{|70 - 60|} = \frac{100}{10} = 10, \text{Res_Index of Item D} = \frac{|300 - 200|}{|70 - 60|} = \frac{100}{10} = 10$$

$$\text{Average} = \frac{10 + 110 + 10 + 10}{4} = 35 \text{ (HIGHEST)}$$

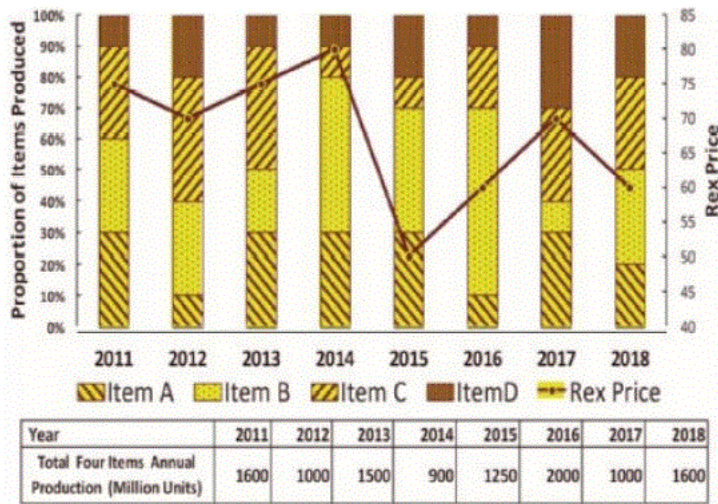
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FeedBack

Directions for questions 65 to 68: Answer the questions with the given information and the graph.

Alpha company uses Rex as main raw material for manufacturing Item A, Item B, Item C and Item D. The graph below shows the proportion of items produced and price trend of Annual Res_Index of an item in a given year is measured as follows:

Res_Index of Item A in Year 2013 = Absolute Value (Production of Item A in 2013- Production of Item A in 2012) / Absolute Value (Rex Price in 2013 - Rex Price in 2012)



Q.67 [11746091]

How many times proportion of an Item manufactured has not been changed in the subsequent year?

1 ☐ 9

2 ☐ 8

3 ☐ 7

4 ☐ 6

Solution:

Correct Answer : 3

[Answer key/Solut](#)

From the given information following table can be drawn:

	item A	Item B	item C	item D	total	Rex price
2011	480	480	480	160	1600	75
2012	100	300	400	200	1000	70
2013	450	300	600	150	1500	75
2014	270	450	90	90	900	80
2015	375	500	125	250	1250	50
2016	200	1200	400	200	2000	60
2017	300	100	300	300	1000	70
2018	320	480	480	320	1600	60

From the graph, it can be observed that 7 times the proportion of an item manufactured has not been changed in the subsequent years.

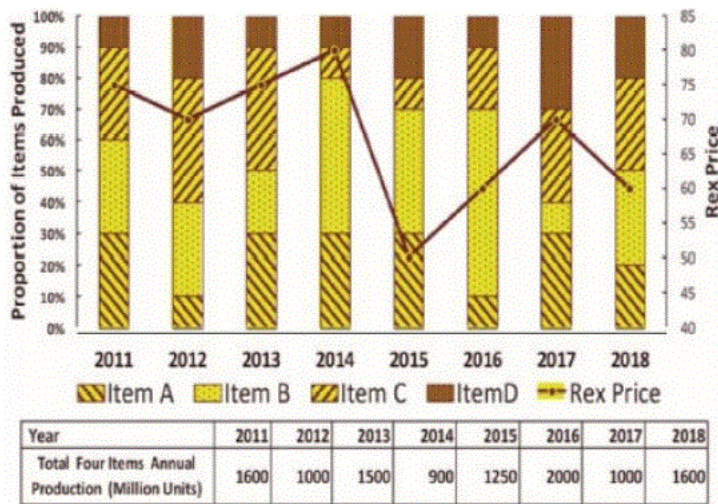
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FeedBack

Directions for questions 65 to 68: Answer the questions with the given information and the graph.

Alpha company uses Rex as main raw material for manufacturing Item A, Item B, Item C and Item D. The graph below shows the proportion of items produced and price trend of Annual Res_Index of an item in a given year is measured as follows:

Res_Index of Item A in Year 2013 = Absolute Value (Production of Item A in 2013- Production of Item A in 2012) / Absolute Value (Rex Price in 2013 - Rex Price in 2012)



Q.68 [11746091]

From the years mentioned below, in which year Res_Index for item D was highest?

1 ☐ 2012

2 ☐ 2013

3 ☐ 2014

4 ☐ 2017

Solution:

Correct Answer : 3

From the given information following table can be drawn:

	item A	Item B	item C	item D	total	Rex price
2011	480	480	480	160	1600	75
2012	100	300	400	200	1000	70
2013	450	300	600	150	1500	75
2014	270	450	90	90	900	80
2015	375	500	125	250	1250	50
2016	200	1200	400	200	2000	60
2017	300	100	300	300	1000	70
2018	320	480	480	320	1600	60

$$\text{Res_Index for item D in year 2012: } \frac{|200 - 160|}{|70 - 75|} = \frac{40}{5} = 8$$

$$\text{Res_Index for item D in year 2013: } \frac{|150 - 200|}{|75 - 70|} = \frac{50}{5} = 10$$

$$\text{Res_Index for item D in year 2014: } \frac{|90 - 150|}{|80 - 75|} = \frac{60}{5} = 12 \text{ (HIGHEST)}$$

$$\text{Res_Index for item D in year 2017: } \frac{|300 - 200|}{|70 - 60|} = \frac{100}{10} = 10$$

[Answer key/Solut](#)

Bookmark

FeedBack

Directions for questions 69 to 72: Answer the questions with the given information and the data.

The table given below gives the Production, Consumption and Export details of 10 products of Timbuktu Island. All that is produced is either consumed or exported. If production of any product is falling short of consumption and exports taken together, then that product is imported. There are no Storage facilities in the island.

Products codes	Production			Consumption			Exports		
	2010	2011	2012	2010	2011	2012	2010	2011	2012
101	350	249	275	480	699	446	88	58	67
102	300	551	796	537	696	773	80	137	199
103	399	801	390	200	571	500	199	250	50
104	600	120	390	375	270	797	250	30	98
105	650	580	450	700	500	300	162	146	220
106	450	400	700	400	500	600	114	110	176
107	750	400	300	610	773	150	190	102	150
108	370	301	420	462	612	863	92	79	219
109	401	199	480	200	517	280	201	48	200
110	449	720	660	876	550	822	104	185	165

Q.69 [11746091]

For how many products there were no imports in any year?

1 ☐ 0

2 ☐ 1

3 ☐ 2

4 ☐ 3

Solution:

Correct Answer : 4

[Answer key/Solut](#)

Product codes	2010				2011				2012			
	P	C	E	Total	P	C	E	Total	P	C	E	total
101	350	480	88	568	249	699	58	757	275	446	67	513
102	300	537	80	617	551	696	137	833	796	773	199	972
103	399	200	199	399	801	571	250	821	390	500	50	550
104	600	375	250	625	120	270	30	300	390	797	98	895
105	650	700	162	862	580	500	146	646	450	300	220	520
106	450	400	114	514	400	500	110	610	700	600	176	776
107	750	610	190	800	400	773	102	875	300	150	150	300
108	370	462	92	554	301	612	79	691	420	863	219	1082
109	401	200	201	401	199	517	48	565	480	280	200	480
110	449	876	104	980	720	550	185	735	660	822	165	987

From the table it can be concluded that for exactly three products 103, 107, and 109 the sum of consumptions and exports is equal to the produced items for at least one year. Hence, 3 is the answer.

Bookmark

FeedBack

Directions for questions 69 to 72: Answer the questions with the given information and the data.

The table given below gives the Production, Consumption and Export details of 10 products of Timbuktu Island. All that is produced is either consumed or exported. If production of any product is falling short of consumption and exports taken together, then that product is imported. There are no Storage facilities in the island.

Products codes	Production			Consumption			Exports		
	2010	2011	2012	2010	2011	2012	2010	2011	2012
101	350	249	275	480	699	446	88	58	67
102	300	551	796	537	696	773	80	137	199
103	399	801	390	200	571	500	199	250	50
104	600	120	390	375	270	797	250	30	98
105	650	580	450	700	500	300	162	146	220
106	450	400	700	400	500	600	114	110	176
107	750	400	300	610	773	150	190	102	150
108	370	301	420	462	612	863	92	79	219
109	401	199	480	200	517	280	201	48	200
110	449	720	660	876	550	822	104	185	165

Q.70 [11746091]

For how many products, imports have shown increasing trend?

1 ☐

2 ☐

3 ☐

4 ☐

Solution:

Correct Answer : 3

[Answer key/Solut](#)

Product codes	2010				2011				2012			
	P	C	E	Total	P	C	E	Total	P	C	E	Total
101	350	480	88	568	249	699	58	757	275	446	67	513
102	300	537	80	617	551	696	137	833	796	773	199	972
103	399	200	199	399	801	571	250	821	390	500	50	550
104	600	375	250	625	120	270	30	300	390	797	98	895
105	650	700	162	862	580	500	146	646	450	300	220	520
106	450	400	114	514	400	500	110	610	700	600	176	776
107	750	610	190	800	400	773	102	875	300	150	150	300
108	370	462	92	554	301	612	79	691	420	863	219	1082
109	401	200	201	401	199	517	48	565	480	280	200	480
110	449	876	104	980	720	550	185	735	660	822	165	987

From the table it can be concluded that for exactly three products 102, 106, and 108 the imports have shown the increasing trend. Hence, 3 is the answer.

Bookmark

FeedBack

Directions for questions 69 to 72: Answer the questions with the given information and the data.

The table given below gives the Production, Consumption and Export details of 10 products of Timbuktu Island. All that is produced is either consumed or exported. If production of any product is falling short of consumption and exports taken together, then that product is imported. There are no Storage facilities in the island.

Products codes	Production			Consumption			Exports		
	2010	2011	2012	2010	2011	2012	2010	2011	2012
101	350	249	275	480	699	446	88	58	67
102	300	551	796	537	696	773	80	137	199
103	399	801	390	200	571	500	199	250	50
104	600	120	390	375	270	797	250	30	98
105	650	580	450	700	500	300	162	146	220
106	450	400	700	400	500	600	114	110	176
107	750	400	300	610	773	150	190	102	150
108	370	301	420	462	612	863	92	79	219
109	401	199	480	200	517	280	201	48	200
110	449	720	660	876	550	822	104	185	165

Q.71 [11746091]

For which of the following product codes, the difference between average production and average consumption is least?

1 ☐ 105

2 ☐ 106

3 ☐ 107

4 ☐ 109

Solution:

Correct Answer : 2

[🔍 Answer key/Solut](#)

For product 105: $\frac{650 + 580 + 450}{3} - \frac{700 + 500 + 300}{3} = 560 - 500 = 60$

For product 106: $\frac{450 + 400 + 700}{3} - \frac{400 + 500 + 600}{3} = 16.67$ (**LEAST**)

For product 107: $\left| \frac{750 + 400 + 300}{3} - \frac{610 + 773 + 150}{3} \right| = 27.67$

For product 109: $\frac{401 + 199 + 480}{3} - \frac{200 + 517 + 280}{3} = 27.67$

Bookmark

FeedBack

Directions for questions 69 to 72: Answer the questions with the given information and the data.

The table given below gives the Production, Consumption and Export details of 10 products of Timbuktu Island. All that is produced is either consumed or exported. If production of any product is falling short of consumption and exports taken together, then that product is imported. There are no Storage facilities in the island.

Products codes	Production			Consumption			Exports		
	2010	2011	2012	2010	2011	2012	2010	2011	2012
101	350	249	275	480	699	446	88	58	67
102	300	551	796	537	696	773	80	137	199
103	399	801	390	200	571	500	199	250	50
104	600	120	390	375	270	797	250	30	98
105	650	580	450	700	500	300	162	146	220
106	450	400	700	400	500	600	114	110	176
107	750	400	300	610	773	150	190	102	150
108	370	301	420	462	612	863	92	79	219
109	401	199	480	200	517	280	201	48	200
110	449	720	660	876	550	822	104	185	165

Q.72 [11746091]

For which of the following product codes, exports as a percentage of production, is highest in any year?

1 ☐ 107

2 ☐ 108

3 ☐ 103

4 ☐ 109

Solution:

Correct Answer : 2

[Answer key/Solut](#)

$$\text{In year 2010: exports as a percentage of production} = \frac{190 \times 100}{750} = 25.33\%$$

$$\text{In year 2011: exports as a percentage of production} = \frac{102 \times 100}{400} = 25.5\%$$

$$\text{In year 2012: exports as a percentage of production} = \frac{150 \times 100}{300} = 50\%$$

For product 108:

$$\text{In year 2010: exports as a percentage of production} = \frac{92 \times 100}{370} = 24.86\%$$

$$\text{In year 2011: exports as a percentage of production} = \frac{79 \times 100}{301} = 26.25\%$$

$$\text{In year 2012: exports as a percentage of production} = \frac{219 \times 100}{420} = 52.14\% \text{ (HIGHEST)}$$

For product 103:

$$\text{In year 2010: exports as a percentage of production} = \frac{199 \times 100}{399} = 49.87\%$$

$$\text{In year 2011: exports as a percentage of production} = \frac{250 \times 100}{801} = 31.21\%$$

$$\text{In year 2012: exports as a percentage of production} = \frac{50 \times 100}{390} = 12.82\%$$

For product 109:

$$\text{In year 2010: exports as a percentage of production} = \frac{201 \times 100}{401} = 50.12\%$$

$$\text{In year 2011: exports as a percentage of production} = \frac{48 \times 100}{199} = 24.12\%$$

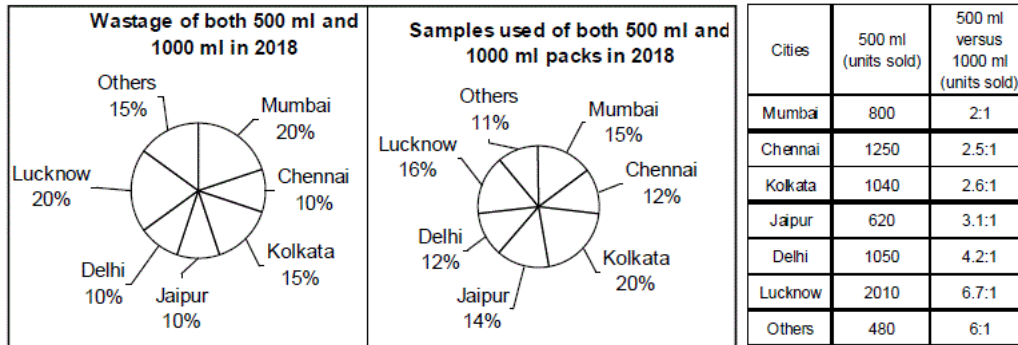
$$\text{In year 2012: exports as a percentage of production} = \frac{200 \times 100}{480} = 41.67\%$$

Bookmark

FeedBack

Directions for questions 73 to 76: Answer the questions with the given information and the data.

ABC Ltd. supplies a health drink in various cities of India. The drink is available in two packs of 500 ml and 1000 ml. Samples are used for promotion of the product whereas the wastage can happen because of breakage, leakage etc. In 2018, the total of sales, samples distributed and wastage of the both pack sizes was 13380. The ratio of wastage to samples of packs of 500 ml and 1000 ml combined together, in all cities is 5:3.



Q.73 [11746091]

What is the number of units of both pack sizes distributed as samples in Jaipur city in 2018?

1 ☐ 198

2 ☐ 210

3 ☐ 223

4 ☐ 232

Solution:

Correct Answer : 2

[Answer key/Solut](#)

Let the number of sales, samples distributed and wastage of both 500ml and 1000 ml be x , $5a$ and $3a$ respectively, since it is given that the ratio of wastage to samples of pack 500 ml and 1000 ml combined together is 5:3.

Now, $x + 5a + 3a = 13380 \Rightarrow x + 8a = 13380$

From the information given in the table, following conclusion can be drawn regarding the total number of sales of both 500 ml and 1000 ml.

Cities	500 ml (units sold)	1000 ml (units sold)
Mumbai	800	400
Chennai	1250	500
Kolkata	1040	400
Jaipur	620	200
Delhi	1050	250
Lucknow	2010	300
Others	480	80
total	7250	2130

$$\Rightarrow (7250 + 2130) + 8a = 13380$$

$$\Rightarrow 9380 + 8a = 13380$$

$$\Rightarrow 8a = 4000$$

$$\Rightarrow a = 500$$

Therefore, number of samples distributed and wastage of both pack sizes is 2500 and 1500 respectively.

Cities	500 ml (units sold)	1000 ml (units sold)	wastage of both 500 ml and 1000 ml	Samples used of both 500 ml and 1000 ml
Mumbai	800	400	500	225
Chennai	1250	500	250	180
Kolkata	1040	400	375	300
Jaipur	620	200	250	210
Delhi	1050	250	250	180
Lucknow	2010	300	500	240
Others	480	80	375	165
total	7250	2130	2500	1500

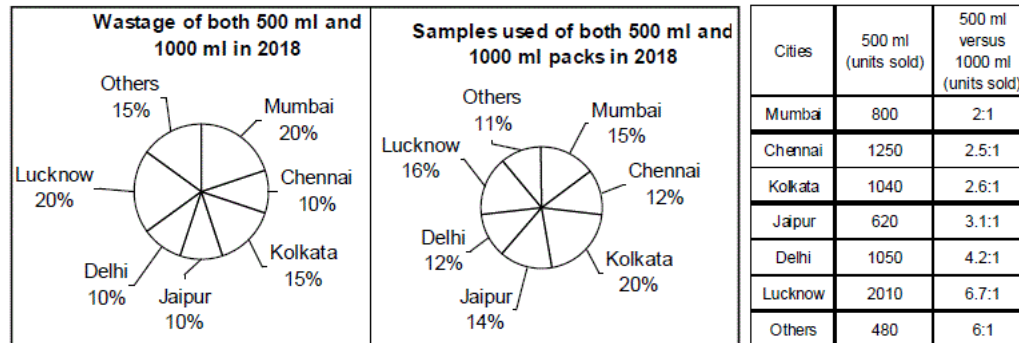
The number of units of both pack sizes distributed as samples in Jaipur city in 2018 is 210.

Bookmark

FeedBack

Directions for questions 73 to 76: Answer the questions with the given information and the data.

ABC Ltd. supplies a health drink in various cities of India. The drink is available in two packs of 500 ml and 1000 ml. Samples are used for promotion of the product whereas the wastage can happen because of breakage, leakage etc. In 2018, the total of sales, samples distributed and wastage of the both pack sizes was 13380. The ratio of wastage to samples of packs of 500 ml and 1000 ml combined together, in all cities is 5:3.



Q.74 [11746091]

What is the number of 1000 ml packs sold in Lucknow city in 2018?

1 ☐ 220

2 ☐ 250

3 ☐ 300



Solution:

Correct Answer : 3

Your Answer : 3

Let the number of sales, samples distributed and wastage of both 500ml and 1000 ml be x , $5a$ and $3a$ respectively, since it is given that the ratio of wastage to samples of pack 500 ml and 1000 ml combined together is 5:3.

Now, $x + 5a + 3a = 13380 \Rightarrow x + 8a = 13380$

From the information given in the table, following conclusion can be drawn regarding the total number of sales of both 500 ml and 1000 ml.

Cities	500 ml (units sold)	1000 ml (units sold)
Mumbai	800	400
Chennai	1250	500
Kolkata	1040	400
Jaipur	620	200
Delhi	1050	250
Lucknow	2010	300
Others	480	80
total	7250	2130

$$\Rightarrow (7250 + 2130) + 8a = 13380$$

$$\Rightarrow 9380 + 8a = 13380$$

$$\Rightarrow 8a = 4000$$

$$\Rightarrow a = 500$$

Therefore, number of samples distributed and wastage of both pack sizes is 2500 and 1500 respectively.

Cities	500 ml (units sold)	1000 ml (units sold)	wastage of both 500 ml and 1000 ml	Samples used of both 500 ml and 1000 ml
Mumbai	800	400	500	225
Chennai	1250	500	250	180
Kolkata	1040	400	375	300
Jaipur	620	200	250	210
Delhi	1050	250	250	180
Lucknow	2010	300	500	240
Others	480	80	375	165
total	7250	2130	2500	1500

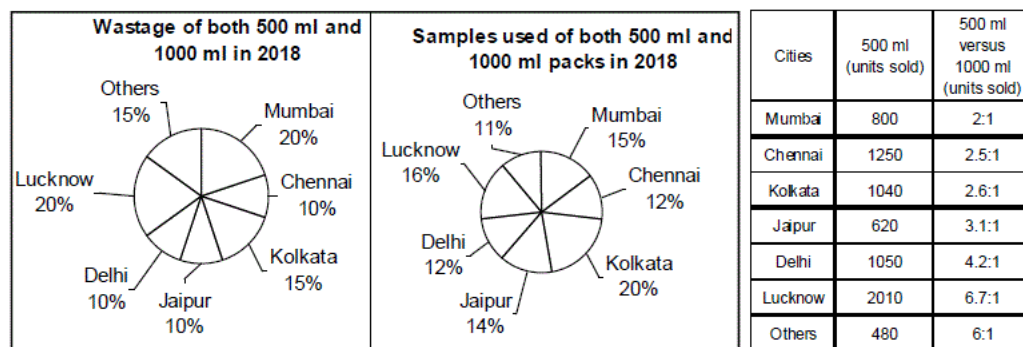
The number of 1000 ml packs sold in Lucknow city in 2018 is 300.

Bookmark

FeedBack

Directions for questions 73 to 76: Answer the questions with the given information and the data.

ABC Ltd. supplies a health drink in various cities of India. The drink is available in two packs of 500 ml and 1000 ml. Samples are used for promotion of the product whereas the wastage can happen because of breakage, leakage etc. In 2018, the total of sales, samples distributed and wastage of the both pack sizes was 13380. The ratio of wastage to samples of packs of 500 ml and 1000 ml combined together, in all cities is 5:3.



Q.75 [11746091]

What is the percentage of units of both pack sizes wasted compared to distributed as samples in Chennai in 2018?

1 ☐ 125%

2 ☐ 139%

3 ☐ 141%

4 ☐ 41%

Solution:

Correct Answer : 2

Let the number of sales, samples distributed and wastage of both 500ml and 1000 ml be x , $5a$ and $3a$ respectively, since it is given that the ratio of wastage to samples of pack 500 ml and 1000 ml combined together is 5:3.

Now, $x + 5a + 3a = 13380 \Rightarrow x + 8a = 13380$

From the information given in the table, following conclusion can be drawn regarding the total number of sales of both 500 ml and 1000 ml.

Cities	500 ml (units sold)	1000 ml (units sold)
Mumbai	800	400
Chennai	1250	500
Kolkata	1040	400
Jaipur	620	200
Delhi	1050	250
Lucknow	2010	300
Others	480	80
total	7250	2130

$$\Rightarrow (7250 + 2130) + 8a = 13380$$

$$\Rightarrow 9380 + 8a = 13380$$

$$\Rightarrow 8a = 4000$$

$$\Rightarrow a = 500$$

Therefore, number of samples distributed and wastage of both pack sizes is 2500 and 1500 respectively.

Cities	500 ml (units sold)	1000 ml (units sold)	wastage of both 500 ml and 1000 ml	Samples used of both 500 ml and 1000 ml
Mumbai	800	400	500	225
Chennai	1250	500	250	180
Kolkata	1040	400	375	300
Jaipur	620	200	250	210
Delhi	1050	250	250	180
Lucknow	2010	300	500	240
Others	480	80	375	165
total	7250	2130	2500	1500

The percentage of units of both pack sizes wasted compared to distributed as sample in Chennai in 2018 is 139%.

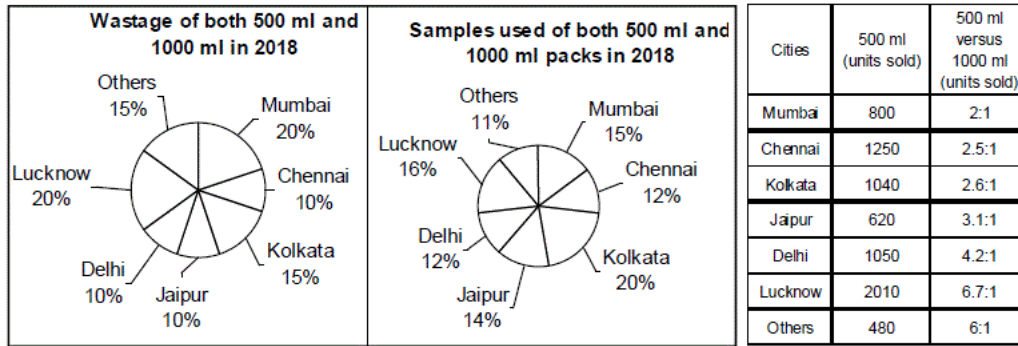
Bookmark

FeedBack

 Answer key/Solut

Directions for questions 73 to 76: Answer the questions with the given information and the data.

ABC Ltd. supplies a health drink in various cities of India. The drink is available in two packs of 500 ml and 1000 ml. Samples are used for promotion of the product whereas the wastage can happen because of breakage, leakage etc. In 2018, the total of sales, samples distributed and wastage of the both pack sizes was 13380. The ratio of wastage to samples of packs of 500 ml and 1000 ml combined together, in all cities is 5:3.



Q.76 [11746091]

Which of the following cities has lowest wastage compared to total units sold in the year 2018?

- 1 ☐ Delhi
- 2 ☐ Jaipur
- 3 ☐ Kolkata
- 4 ☐ Lucknow

Solution:

Correct Answer : 1

[Answer key/Solut](#)

Let the number of sales, samples distributed and wastage of both 500ml and 1000 ml be x , $5a$ and $3a$ respectively, since it is given that the ratio of wastage to samples of pack 500 ml and 1000 ml combined together is 5:3.

Now, $x + 5a + 3a = 13380 \Rightarrow x + 8a = 13380$

From the information given in the table, following conclusion can be drawn regarding the total number of sales of both 500 ml and 1000 ml.

Cities	500 ml (units sold)	1000 ml (units sold)
Mumbai	800	400
Chennai	1250	500
Kolkata	1040	400
Jaipur	620	200
Delhi	1050	250
Lucknow	2010	300
Others	480	80
total	7250	2130

$$\Rightarrow (7250 + 2130) + 8a = 13380$$

$$\Rightarrow 9380 + 8a = 13380$$

$$\Rightarrow 8a = 4000$$

$$\Rightarrow a = 500$$

Therefore, number of samples distributed and wastage of both pack sizes is 2500 and 1500 respectively.

Cities	500 ml (units sold)	1000 ml (units sold)	wastage of both 500 ml and 1000 ml	Samples used of both 500 ml and 1000 ml
Mumbai	800	400	500	225
Chennai	1250	500	250	180
Kolkata	1040	400	375	300
Jaipur	620	200	250	210
Delhi	1050	250	250	180
Lucknow	2010	300	500	240
Others	480	80	375	165
total	7250	2130	2500	1500

Delhi: Wastage compared to total units sold is 19.23% (**LEAST**)

Jaipur: wastage compared to total units sold is 30.48%.

Kolkata: wastage compared to total units sold is 26.041%.

Lucknow: wastage compared to total units sold is 21.645%.

Bookmark

FeedBack

Directions for questions 77 to 80: Answer the questions based on the information provided.

100 families planned wedding on 21st December 2020 at 9 pm, an auspicious day and time in New Delhi and booked a marriage hall online in Chattarpur Farms. Due to a technical glitch the hall was booked simultaneously for 64 families who received a confirmation with a deposit of Rs. 1 Lakh each. The management on identifying the glitch was troubled contacted the families for a refund but the families were not ready to accommodate. The management and the families then mutually agreed to have a toss in order to decide which family will be finally allotted the venue. Certain directions regarding holding the toss are as follows:

- The families were allotted a number from 1 to 64 in alphabetical ascending order of their names.
- It was further decided, Family 1 will have a toss with Family 64 and is considered as Toss 1. Toss 2 will be between Family 2 and Family 63 and Toss 3 between Family 3 and Family 62 and so on.
- The winner of each toss moves to the next round and the winner of Toss 1 will now have a toss with winner of Toss 32, winner of Toss 2 with Toss 31 and so on.
- The remaining rounds of toss are in ascending order i.e. winner of Toss 1 with Toss 2, winner of Toss 3 with Toss 4 and so till there is one winner.
- It was also decided that if the final winner withdraws and hands over the venue to the other finalist, the winner will be given Rs. 1.5 Lakh over and above the refund amount.

Q.77 [11746091]

From the following, which family in descending order can have the toss with Family 12 in finals?

1 ☐ 62

2 ☐ 60

3 ☐ 63

4 ☐ 61

Solution:

Correct Answer : 3

Answer key/Solut

Assume that all the families mentioned in the options won, wherever, possible.

Round 1:-

Toss 2 : F2 \longleftrightarrow F(63)won

Toss 3 : F3 \longleftrightarrow F(62)won

Toss 4 : F4 \longleftrightarrow F(61)won

Toss 5 : F5 \longleftrightarrow F(60)won

Toss 12 : F12 \longleftrightarrow F(53)
(won)

Round 2:-

Toss 2 : F(63) \longleftrightarrow F(31)
(won)

Toss 3 : F(62) \longleftrightarrow F(30)
(won)

Toss 4 : F(61) \longleftrightarrow F(29)
(won)

Toss 5 : F(60) \longleftrightarrow F(28)
(won)

Toss 12 : F(12) \longleftrightarrow F(21)
(won)

Round 3:-

Toss 1 : F1 \longleftrightarrow F(63)won

Toss 2 : F(62) \longleftrightarrow F(61)

Toss 3 : F(60) \longleftrightarrow F(6)
(won)

Toss 6 : F(11) \longleftrightarrow F(12)won

Round 4:-

Toss 1 : F(63) \longleftrightarrow F(62/61)

Toss 2 : F(60) \longleftrightarrow F(7)
(won)

Toss 3 : F(9) \longleftrightarrow F(12)won

Clearly, family 12 can have the finals with family 63 in descending order.

Bookmark

FeedBack

Directions for questions 77 to 80: Answer the questions based on the information provided.

100 families planned wedding on 21st December 2020 at 9 pm, an auspicious day and time in New Delhi and booked a marriage hall online in Chattarpur Farms. Due to a technical glitch the hall was booked simultaneously for 64 families who received a confirmation with a deposit of Rs. 1 Lakh each. The management on identifying the glitch was troubled contacted the families for a refund but the families were not ready to accommodate. The management and the families then mutually agreed to have a toss in order to decide which family will be finally allotted the venue. Certain directions regarding holding the toss are as follows:

1. The families were allotted a number from 1 to 64 in alphabetical ascending order of their names.
2. It was further decided, Family 1 will have a toss with Family 64 and is considered as Toss 1. Toss 2 will be between Family 2 and Family 63 and Toss 3 between Family 3 and Family 62 and so on.
3. The winner of each toss moves to the next round and the winner of Toss 1 will now have a toss with winner of Toss 32, winner of Toss 2 with Toss 31 and so on.
4. The remaining rounds of toss are in ascending order i.e. winner of Toss 1 with Toss 2, winner of Toss 3 with Toss 4 and so till there is one winner.
5. It was also decided that if the final winner withdraws and hands over the venue to the other finalist, the winner will be given Rs. 1.5 Lakh over and above the refund amount.

Q.78 [11746091]

If family 57 is in the finals, then which family in ascending order can propose to withdraw and take an amount of 1.5 Lakh along with the refund.

1 ☐ 35


2 ☐ 47

3 ☐ 39

4 ☐ 58

Solution:

Correct Answer : 2

 Answer key/Solut

Assume that all the families mentioned in the question and the options won the toss in every round if possible.

Round 1:-

Toss 7: Family 7 \longleftrightarrow Family 58
(won)

Toss 8: Family 8 \longleftrightarrow Family 57
(won)

Toss 18: Family 18 \longleftrightarrow Family 47
(won)

Toss 26: Family 26 \longleftrightarrow Family 39
(won)

Toss 30: Family 30 \longleftrightarrow Family 35
(won)

Round 2:-

Toss 3: Family 3 \longleftrightarrow Family 35
(assumed) (won)

Toss 7: Family 58 \longleftrightarrow Family 39 (anybody could have won)

Toss 8: Family 57 \longleftrightarrow Family 25
(won)

Toss 15: Family 57 \longleftrightarrow Family 47
(assumed) (won)

Round 3:-

Toss 2: Family 35 \longleftrightarrow Family 4
(won) (assumed)

Toss 4: Either family 58/39 \longleftrightarrow Family 57
(won)

Toss 8: Family 47 \longleftrightarrow Family 16
(won) (assumed)

Round 4:-

Toss Families

1	1	35(won
2	5	57(won)
3	9	11
4	13	47(won)

Clearly, in next round family 35 will lose the toss to family 57 and therefore, family 57 can have the final with family 47 who can propose to withdraw and take an amount of 1.5 lakh along with the refund.

Bookmark

FeedBack

Directions for questions 77 to 80: Answer the questions based on the information provided.

100 families planned wedding on 21st December 2020 at 9 pm, an auspicious day and time in New Delhi and booked a marriage hall online in Chattarpur Farms. Due to a technical glitch the hall was booked simultaneously for 64 families who received a confirmation with a deposit of Rs. 1 Lakh each. The management on identifying the glitch was troubled and contacted the families for a refund but the families were not ready to accommodate. The management and the families then mutually agreed to have a toss in order to decide which family will be finally allotted the venue. Certain directions regarding holding the toss are as follows:

1. The families were allotted a number from 1 to 64 in alphabetical ascending order of their names.
2. It was further decided, Family 1 will have a toss with Family 64 and is considered as Toss 1. Toss 2 will be between Family 2 and Family 63 and Toss 3 between Family 3 and Family 62 and so on.
3. The winner of each toss moves to the next round and the winner of Toss 1 will now have a toss with winner of Toss 32, winner of Toss 2 with Toss 31 and so on.
4. The remaining rounds of toss are in ascending order i.e. winner of Toss 1 with Toss 2, winner of Toss 3 with Toss 4 and so till there is one winner.
5. It was also decided that if the final winner withdraws and hands over the venue to the other finalist, the winner will be given Rs. 1.5 Lakh over and above the refund amount.

Q.79 [11746091]

If family 51 won the toss, then with which family can they not have a toss in the finals?

1 ☐ 27

2 ☐ 24

3 ☐ 29

4 ☐ 37

Solution:

Correct Answer : 2

Here assume families mentioned in question and options won wherever possible and for other assume the values as per requirement.

Round 1:-

Toss 14 : Family 14 \longleftrightarrow Family 51
(won)

Toss 24 : Family 24 \longleftrightarrow Family 41
(won)

Toss 27 : Family 27 \longleftrightarrow Family 38
(won)

Toss 28 : Family 28 \longleftrightarrow Family 37
(won)

Toss 29 : Family 29 \longleftrightarrow Family 36
(won)

Round 2:-

Toss	Family	
4	4	29 (won)
5	5	37 (won)
6	6	27 (won)
9	9	24 (won)
14	51(won)	19

Round 3:-

Toss	Family	
2	3	29(won)
3	37	27
5	24(won)	10
7	13	51(won)

Round 4:-

Toss	Family	
1	1	29
2	37/27	7
3	24(won)	12
4	51(won)	15

From this it can be concluded that family 24 will not have a toss in the finals with family 51, since it will lose in round 5 in toss 2 against family 51 only.

Bookmark

FeedBack

Directions for questions 77 to 80: Answer the questions based on the information provided.

100 families planned wedding on 21st December 2020 at 9 pm, an auspicious day and time in New Delhi and booked a marriage hall online in Chattarpur Farms. Due to a technical glitch the hall was booked simultaneously for 64 families who received a confirmation with a deposit of Rs. 1 Lakh each. The management on identifying the glitch was troubled contacted the families for a refund but the families were not ready to accommodate. The management and the families then mutually agreed to have a toss in order to decide which family will be finally allotted the venue. Certain directions regarding holding the toss are as follows:

1. The families were allotted a number from 1 to 64 in alphabetical ascending order of their names.
2. It was further decided, Family 1 will have a toss with Family 64 and is considered as Toss 1. Toss 2 will be between Family 2 and Family 63 and Toss 3 between Family 3 and Family 62 and so on.
3. The winner of each toss moves to the next round and the winner of Toss 1 will now have a toss with winner of Toss 32, winner of Toss 2 with Toss 31 and so on.
4. The remaining rounds of toss are in ascending order i.e. winner of Toss 1 with Toss 2, winner of Toss 3 with Toss 4 and so till there is one winner.
5. It was also decided that if the final winner withdraws and hands over the venue to the other finalist, the winner will be given Rs. 1.5 Lakh over and above the refund amount.

Q.80 [11746091]

If a toss was between family 9 and family 13, then one toss can be between

1 ☐ 25 and 44

2 ☐ 32 and 5

3 ☐ 23 and 46

4 ○ 21 and 8

Solution:

Correct Answer : 2

[Answer key/Solut](#)

Assume that families mentioned in questions and options won wherever possible and for other families assume the winning family as per requirement.

Round - 3		
Toss	Family	
1	1	64
2	2	63
3	3	62
4	4	61
5	5	60
6	6	59
7	7	58
8	8	57
9	9	56
10	10	55
11	11	54
12	12	53
13	13	52
14	14	51
15	15	50
16	16	49
17	17	48
18	18	47
19	19	46
20	20	45
21	21	44
22	22	43
23	23	42
24	24	41
25	25	40
26	26	39
27	27	38
28	28	37
29	29	36
30	30	35
31	31	34
32	32	33

Round - 3		
Toss	Family	
1	1	32
2	2	31
3	3	30
4	4	29
5	5	28
6	6	27
7	7	26
8	8	25
9	9	24
10	10	23
11	11	22
12	12	21/44
13	13	45
14	14	46
15	15	18
16	16	17

Round - 3		
Toss	Family	
1	32	2
2	3	4
3	5	6
4	7	8 or 25
5	9	23
6	11	21/44
7	13	46
8	15	16

Since family 9 and 13 had a toss with each other, therefore, family 32 and 5 must have had a toss between them in round 5.

Bookmark

FeedBack

Directions for questions 81 and 82: Answer the questions based on the information provided.

In a department of a hospital, Amir, Sahil, Vaibhav and Gaurav are doctors and each of them has a duty from 9 am of Day 1 to 9 am of Day 2 for 24 hours in the same order one after the other. After each duty, the doctor gets an off for 3 days, including the day he is relieved from duty. For example, if Amir has a duty on Monday, his next duty will now fall on Friday and this rotation goes on.

Q.81 [11746091]

If on 14th February 2020, Sahil was on duty, then who did the maximum number of duties in that month?

1 ○ Amir


2 ○ Sahil

3 ○ Vaibhav

4 ○ Gaurav

Solution:

Correct Answer : 1

 Answer key/Solut

The order of duty is Amir, Sahil, Vaibhav and Gaurav respectively. If on 14th February 2020, Sahil was on duty then on 13th of February Amir was on duty and Vaibhav must have duty on 15th of February and since each one of them have next duty after 3 days therefore, the dates on which they had duties in February can be concluded as:

Amir: 1, 5, 9, 13, 17, 21, 25, and 29 (**8 days**)

Sahil: 2, 6, 10, 14, 18, 22, and 26 (7 days)

Vaibhav: 3, 7, 11, 15, 19, 23 and 27 (7 days)

Gaurav: 4, 8, 12, 16, 20, 24, and 28 (7 days)

Hence, Amir did maximum number of duties in the month of February.

Bookmark

FeedBack

Directions for questions 81 and 82: Answer the questions based on the information provided.

In a department of a hospital, Amir, Sahil, Vaibhav and Gaurav are doctors and each of them has a duty from 9 am of Day 1 to 9 am of Day 2 for 24 hours in the same order one after the other. After each duty, the doctor gets an off for 3 days, including the day he is relieved from duty. For example, if Amir has a duty on Monday, his next duty will now fall on Friday and this rotation goes on.

Q.82 [11746091]

If on 10th July 2020, Gaurav was on duty, who will be on duty on 26th September 2020?

1 ☐ Amir


2 ☐ Sahil

3 ☐ Vaibhav

4 ☐ Gaurav

Solution:

Correct Answer : 2

 Answer key/Solut

Since on 10th July 2020, Gaurav was on duty then Amir, Sahil and Vaibhav had duties on 11th of July, 12th of July and 13th of July respectively.

For Amir, 26th of September is 77th day after his duty on 11th of July, which is not a number of form 4k, therefore Amir will not have a duty on 26th of September.

Similarly, for Vaibhav and Gaurav, 26th of September is 75th and 78th day after their duty on 13th and 10th of July, which is not a number of form 4k.

But for Sahil, 26th of September is 76th day after his duty on 12th of July, which is a number of form 4k, therefore Sahil will have a duty on 26th of September.

Bookmark

FeedBack

Directions for questions 83 to 86: Answer the questions based on the information provided.

In an ICU with a capacity of 8 patients, due to COVID-19, beds were arranged in a circular pattern. Thus, now at a time 8 patients can be accommodated. As a basic measure, patients are administered with an IV fluid replacement which as per medical guidelines is 25-30 ml/kg per day. A senior doctor explained to a new intern the amount of IV fluid replacement each patient but the intern mixes up the doses. From the information given below, help the intern to administer right doses to each patient.

1. On a given day, 4 married couples were admitted to the ICU namely, A, B, C, D, E, F, G and H.

2. A, D, E and F are males and the rest are females. Males are married to females. Each patient was prescribed a replacement from among 25, 28 and 30 ml/kg not necessarily in same order.

3. Any 2 couples do not have the same dose and are neither adjacent nor opposite to each other.

4. A, who was prescribed 30 ml/kg was opposite C while E who was prescribed 28 ml/kg was opposite G and E's spouse was prescribed 25 ml/kg.

5. H is married to F, while D who was not prescribed 25 ml/kg is not married to G.

6. B who was prescribed 30 ml/kg was to the immediate left of C and also to the immediate right of the spouse of C.

7. None of the 4 males receive IV replacement lower than 28 ml/kg while there is one male patient between B and their spouse.

8. A's spouse receives a replacement of 28 ml/kg same as that of F's spouse, who are next to each other.

Q.83 [11746091]

Who among the following is adjacent to A?

1 ☐ D

2 ☐ G

3 ☐ B

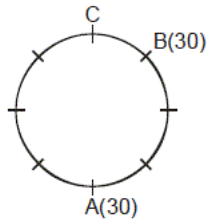
4 ☐ E

Solution:

Correct Answer : 1

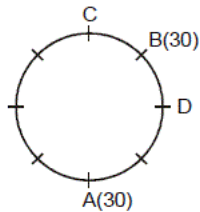
[Answer key/Solut](#)

From statement 4 and 6, we get

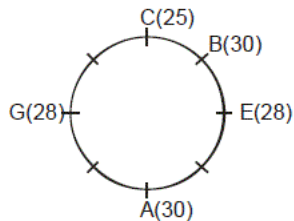


Also, A is not the spouse of C since C's spouse is sitting to the left of B. Hence, either D or E is the spouse of C since H is married to F is given.

Case I



Case II



Since E and G have same dose therefore, they are not spouse of each other.

For case I:- The couples are-

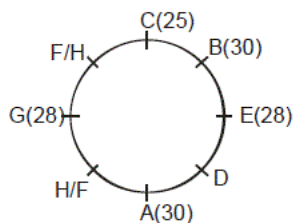
Males A B E F
Females G C B H

But since the spouse of E was prescribed 25 ml/kg and B was prescribed 30 ml/kg hence this case is discarded.

For case II:- The couples are:-

Males A(30) D E(28) F
Females G(28) B(30) C(25) H(28)

Also by statement 7 and 8, we get the final arrangement as:



D is sitting to the immediate side of A.

[Bookmark](#)

[FeedBack](#)

Directions for questions 83 to 86: Answer the questions based on the information provided.

In an ICU with a capacity of 8 patients, due to COVID-19, beds were arranged in a circular pattern. Thus, now at a time 8 patients can be accommodated. As a basic measure, patients are administered with an IV fluid replacement which as per medical guidelines is 25-30 ml/kg per day. A senior doctor explained to a new intern the amount of IV fluid replacement for each patient but the intern mixes up the doses. From the information given below, help the intern to administer right doses to each patient.

1. On a given day, 4 married couples were admitted to the ICU namely, A, B, C, D, E, F, G and H.
2. A, D, E and F are males and the rest are females. Males are married to females. Each patient was prescribed a replacement from among 25, 28 and 30 ml/kg not necessarily in same order.
3. Any 2 couples do not have the same dose and are neither adjacent nor opposite to each other.
4. A, who was prescribed 30 ml/kg was opposite C while E who was prescribed 28 ml/kg was opposite G and E's spouse was prescribed 25 ml/kg.
5. H is married to F, while D who was not prescribed 25 ml/kg is not married to G.
6. B who was prescribed 30 ml/kg was to the immediate left of C and also to the immediate right of the spouse of C.
7. None of the 4 males receive IV replacement lower than 28 ml/kg while there is one male patient between B and their spouse.
8. A's spouse receives a replacement of 28 ml/kg same as that of F's spouse, who are next to each other.

Q.84 [11746091]

The transfusion amount is same for which of the following?

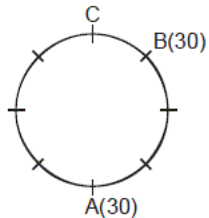
- 1 ☐ A weighing 80 kg and C weighing 70 kg
- 2 ☐ B weighing 50 kg and C weighing 60 kg
- 3 ☐ C weighing 80 kg and B weighing 60 kg
- 4 ☐ A weighing 50 kg and B weighing 40 kg

Solution:

Correct Answer : 2

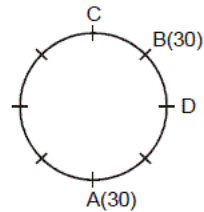
 Answer key/Solut

From statement 4 and 6, we get

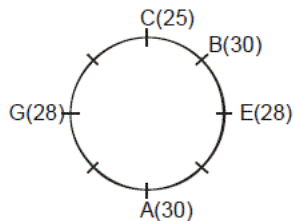


Also, A is not the spouse of C since C's spouse is sitting to the left of B. Hence, either D or E is the spouse of C since H is married to F is given.

Case I



Case II



Since E and G have same dose therefore, they are not spouse of each other.

For case I:- The couples are-

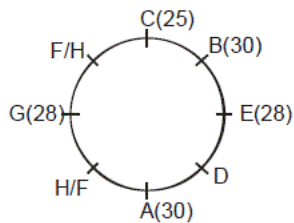
Males	A	B	E	F
Females	G	C	B	H

But since the spouse of E was prescribed 25 ml/kg and B was prescribed 30 ml/kg hence this case is discarded.

For case II:- The couples are:-

Males	A(30)	D	E(28)	F
Females	G(28)	B(30)	C(25)	H(28)

Also by statement 7 and 8, we get the final arrangement as:



The transfusion amount is same for B weighing 50 kg and C weighing 60 kg.

Bookmark

FeedBack

Directions for questions 83 to 86: Answer the questions based on the information provided.

In an ICU with a capacity of 8 patients, due to COVID-19, beds were arranged in a circular pattern. Thus, now at a time 8 patients can be accommodated. As a basic measure, patients are administered with an IV fluid replacement which as per medical guidelines is 25-30 ml/kg per day. A senior doctor explained to a new intern the amount of IV fluid replacement for each patient but the intern mixes up the doses. From the information given below, help the intern to administer right doses to each patient.

1. On a given day, 4 married couples were admitted to the ICU namely, A, B, C, D, E, F, G and H.
2. A, D, E and F are males and the rest are females. Males are married to females. Each patient was prescribed a replacement from among 25, 28 and 30 ml/kg not necessarily in the same order.
3. Any 2 couples do not have the same dose and are neither adjacent nor opposite to each other.
4. A, who was prescribed 30 ml/kg was opposite C while E who was prescribed 28 ml/kg was opposite G and E's spouse was prescribed 25 ml/kg.
5. H is married to F, while D who was not prescribed 25 ml/kg is not married to G.
6. B who was prescribed 30 ml/kg was to the immediate left of C and also to the immediate right of the spouse of C.
7. None of the 4 males receive IV replacement lower than 28 ml/kg while there is one male patient between B and their spouse.
8. A's spouse receives a replacement of 28 ml/kg same as that of F's spouse, who are next to each other.

Q.85 [11746091]

The spouse of which person has an IV infusion of 25 ml/kg?

1 ☐ E

2 ☐ D

3 ☐ B

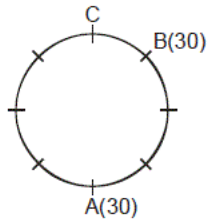
4 ☐ H

Solution:

Correct Answer : 1

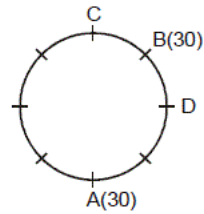
 Answer key/Solution

From statement 4 and 6, we get

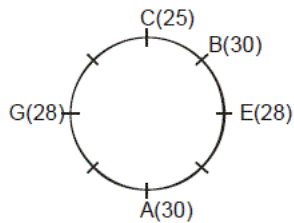


Also, A is not the spouse of C since C's spouse is sitting to the left of B. Hence, either D or E is the spouse of C since H is married to F is given.

Case I



Case II



Since E and G have same dose therefore, they are not spouse of each other.

For case I:- The couples are-

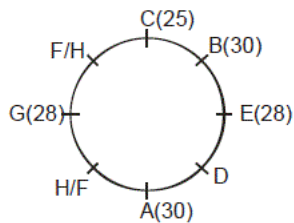
Males	A	B	E	F
Females	G	C	B	H

But since the spouse of E was prescribed 25 ml/kg and B was prescribed 30 ml/kg hence this case is discarded.

For case II:- The couples are:-

Males	A(30)	D	E(28)	F
Females	G(28)	B(30)	C(25)	H(28)

Also by statement 7 and 8, we get the final arrangement as:



The spouse of E that is, C has an IV infusion of 25 ml/kg.

Bookmark

FeedBack

Directions for questions 83 to 86: Answer the questions based on the information provided.

In an ICU with a capacity of 8 patients, due to COVID-19, beds were arranged in a circular pattern. Thus, now at a time 8 patients can be accommodated. As a basic measure, patients are administered with an IV fluid replacement which as per medical guidelines is 25-30 ml/kg per day. A senior doctor explained to a new intern the amount of IV fluid replacement for each patient but the intern mixes up the doses. From the information given below, help the intern to administer right doses to each patient.

1. On a given day, 4 married couples were admitted to the ICU namely, A, B, C, D, E, F, G and H.
2. A, D, E and F are males and the rest are females. Males are married to females. Each patient was prescribed a replacement from among 25, 28 and 30 ml/kg not necessarily in same order.
3. Any 2 couples do not have the same dose and are neither adjacent nor opposite to each other.
4. A, who was prescribed 30 ml/kg was opposite C while E who was prescribed 28 ml/kg was opposite G and E's spouse was prescribed 25 ml/kg.
5. H is married to F, while D who was not prescribed 25 ml/kg is not married to G.
6. B who was prescribed 30 ml/kg was to the immediate left of C and also to the immediate right of the spouse of C.
7. None of the 4 males receive IV replacement lower than 28 ml/kg while there is one male patient between B and their spouse.
8. A's spouse receives a replacement of 28 ml/kg same as that of F's spouse, who are next to each other.

Q.86 [11746091]

What is the transfusion amount for the spouse of D who weighs 80 kg?

1 ☐ 3600 ml


2 ☐ 2400 ml

3 ☐ 2500 ml

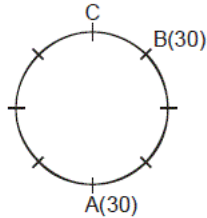
4 ☐ 2700 ml

Solution:

Correct Answer : 2

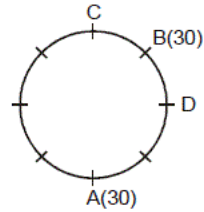
 **Answer key/Solut**

From statement 4 and 6, we get

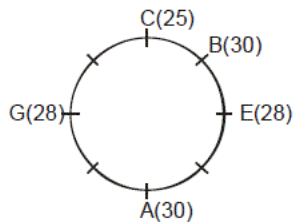


Also, A is not the spouse of C since C's spouse is sitting to the left of B. Hence, either D or E is the spouse of C since H is married to F is given.

Case I



Case II



Since E and G have same dose therefore, they are not spouse of each other.

For case I:- The couples are-

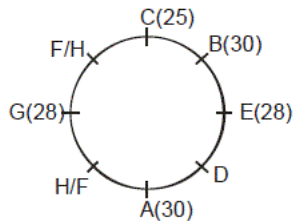
Males	A	B	E	F
Females	G	C	B	H

But since the spouse of E was prescribed 25 ml/kg and B was prescribed 30 ml/kg hence this case is discarded.

For case II:- The couples are:-

Males	A(30)	D	E(28)	F
Females	G(28)	B(30)	C(25)	H(28)

Also by statement 7 and 8, we get the final arrangement as:



The transfusion amount for the spouse of D who weighs 80 kg is 2400 ml.

Bookmark

FeedBack

Q.87 [11746091]

Five vegetables are placed in a row in a grocery store. Carrot is at the extreme left and adjacent to Cucumber. Tomato and Cucumber are not placed together. Onion and Capsicum are placed together but Onion is not next to Tomato. Which of the vegetables are at the extreme ends?

1 ☐ Carrot and Tomato

2 ☐ Carrot and Onion

3 ☐ Cucumber and Capsicum

4 ☐ Capsicum and Tomato



Solution:

Correct Answer : 1

Your Answer : 1

Five vegetables are placed in a row from left to right.

Carrot Cucumber Onion Capsicum Tomato

Hence, Carrot and Tomato are at extreme ends.

Bookmark

FeedBack

🔍 Answer key/Solut

Q.88 [11746091]

If 'Ola bae mare' means Girl is pretty, 'sou ola may' means Raj is handsome, 'Sab rib may' means All are handsome, 'To joy bae' means Mom was pretty. Then which word stands Girl?

1 ☐ Mare

2 ☐ Ola

3 ☐ Bae

4 ☐ Joy



Solution:

Correct Answer : 1

Your Answer : 1

'Ola bae mare' means 'Girl is pretty'. ... (i)

'sou ola may' means 'Raj is handsome'. ... (ii)

'Sab rib may' means 'All are handsome'. ... (iii)

'To joy bae' means 'Mom was pretty'. ... (iv)

From (i) and (ii), 'Ola' stands for 'is'.

From (i) and (iv), 'bae' stands for 'pretty'.

Therefore, from (i) 'mare' stands for 'Girl'.

Hence, option (1) is the correct answer.

Bookmark

FeedBack

🔍 Answer key/Solut

Q.89 [11746091]

In an organization with 70 employees, 30 are females and 30 employees are married. 24 employees hold a graduation degree. 19 married employees are graduates of which 7 a males. 12 males are graduates while 15 males are married. How many unmarried graduate females are employed in the organization?

1 ☐ 3

2 ☐ 5

3 ☐ 0

4 ☐ 1



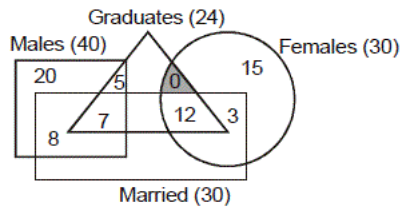
Solution:

Correct Answer : 3

Your Answer : 3

[Answer key/Solut](#)

The given information can be shown by a Venn diagram.



From the Venn diagram, the number of unmarried graduate females = 0.

Hence, option (3) is the correct answer.

Bookmark

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Q.90 [11746091]

Abeer has 14 novels. Abeer's friend Sanjay takes 3 of them and gives 2 novels to Abeer. Abeer donates 7 novels but buys 4. Joy takes 4 novels from Abeer and gives him 5. Abeer takes one novel from Sanjay and gives to Joy in exchange for 3 more. Abeer gives those 3 novels to Sanjay and he gives Abeer a novel and a magazine. Rahul takes the magazine which Sanjay gave to Abeer and gives Abeer a textbook. Abeer gives the text book to Joy in exchange for a novel. Rahul takes the novel from Sanjay, gives it to Joy for a magazine and gives Abeer the magazine for a novel. How many textbooks does Abeer have?

1 ☐ 0

2 ☐ 1

3 ☐ 2

4 ☐ 3

Solution:

Correct Answer : 1

[Answer key/Solut](#)

According to question, Rahul takes the magazine which Sanjay gave to Abeer and gives Abeer a textbook. Abeer gives the textbook to Joy in exchange for a novel.

Therefore, Abeer does not have any magazine. Hence, option (1) is the correct answer.

Bookmark

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Sec 4

Q.91 [11746091]

The Global Multidimensional Poverty Index (MPI) is released by

1 ☐ World Economic Forum

2 ☐ World Bank

3 ☐ Oxford Poverty and Human Development Initiative

4 ☐ Innovations for Poverty Action

×

Solution:

Correct Answer : 3

Your Answer : 2

[Answer key/Solut](#)

NITI Aayog as the nodal agency has been assigned the responsibility of leveraging the monitoring mechanism of the Global Multidimensional Poverty Index (MPI) to drive reforms. Global MPI is an international measure of multidimensional poverty covering 107 developing countries and was first developed in 2010 by Oxford Poverty and Human Development Initiative (OPHI) and United Nations Development Programme (UNDP) for UNDP's Human Development Reports. The Global MPI is released the High-Level Political Forum (HLPF) on Sustainable Development of the United Nations in July, every year. India is 62nd among 107 countries with an MPI score of 0.123 and 27.91% headcount ratio, based on the NFHS 4 (2015/ 16) data.

Bookmark

FeedBack

Q.92 [11746091]

Match the movie with the personality on whose life it is based.

Movie	Personality
(a) A Beautiful Mind	(i) Margaret Thatcher
(b) The Prime Minister	(ii) John Nash
(c) First Man	(iii) Benjamin Disraeli
(d) The Iron Lady	(iv) Neil A. Armstrong

1 ☐ (a)-(iv), (b)-(ii), (c)-(i), (d)-(iii)

2 ☐ (a)-(ii), (b)-(iii), (c)-(iv), (d)-(i)

3 ☐ (a)-(iv), (b)-(i), (c)-(iii), (d)-(ii)

4 ☐ (a)-(i), (b)-(iii), (c)-(ii), (d)-(iv)

✕

Solution:

Correct Answer : 2

Your Answer : 3

The second option matched correctly among the given options. A Beautiful Mind is a 2001 American biographical drama film based on the life of the American mathematician John Nash, a Nobel Laureate in Economics and Abel Prize winner. The Prime Minister is a British 1941 British historical drama film directed by Thor Dickinson and starring John Gielgud, Diana Wynyard, Fay Compton and Stephen Murray. It details the life and times of Benjamin Disraeli, who became Prime Minister of the United Kingdom. First Man is a 2018 American biographical drama film directed by Damien Chazelle and written by Josh Singer. Based on the 2005 book First Man: The Life of Neil A. Armstrong by James R. Hansen, the film stars Ryan Gosling as Neil Armstrong and follows the years leading up to the Apollo 11 mission to the Moon in 1969. The Iron Lady is a 2011 British biographical drama film based on the life and career of Margaret Thatcher, a British politician who was the first woman and longest-serving Prime Minister of the United Kingdom of the 20th century.

Bookmark

FeedBack

🔍 Answer key/Solution

Q.93 [11746091]

Kho Kho, a popular sport played in India, has been part of which of the following Games?

1 ☐ Asian Games

2 ☐ South Asian Games

3 ☐ Olympics

4 ☐ Commonwealth Games

✓

Solution:

Correct Answer : 2

Your Answer : 2

Kho Kho was included in the South Asian Games for the first time in 2016 with India managing consistent performances in the event since. Kho Kho Federation of India on Friday announced a 15-member men's and women's team for the 13th South Asian Games, scheduled to begin from December 1 in Kathmandu, Nepal.

Bookmark

FeedBack

🔍 Answer key/Solution

Q.94 [11746091]

"Beyond the Last Blue Mountain" is the autobiography of which businessman ?

1 ☐ Kishore Biyani

2 ☐ JRD Tata

3 ☐ Ratan Tata

4 ☐ Dhirubhai Ambani

Solution:

Correct Answer : 2

 Answer key/Solut

Beyond the Last Blue Mountain is an extensive and extraordinary biography of India's greatest and most valued industrialist. Written with J.R.D. Tata's mutual aid, this superb biography tells the splendid life story of J.R.D. - from his birth to 1993, the year in which he passed away in Switzerland. The biography is divided into four parts: Part I covers the early years - from J.R.D's birth in France in the year 1904 to his attainment of the chairmanship of the Tata's, India's big industrial company, at the age young age of thirty-four.

Bookmark

FeedBack

Q.95 [11746091]

Name of which of the following car brand means "Shark" ?

1 ☐ Alturas

2 ☐ Marazzo

3 ☐ Seltos

4 ☐ Tigor

Solution:

Correct Answer : 2

 Answer key/Solut

Pawan Goeka officially confirmed the name and says that it is derived from the Spanish word 'Marazzo' which means a shark and the vehicle gets its designed inspired from a shark. Mahindra Marazzo (U321) has been designed by the Mahindra Design Studio and the company-owned Italian design house, Pininfarina.

Bookmark

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Q.96 [11746091]

The needle on a compass constantly sways between true north and magnetic north. The angle between true north and magnetic north is known as ;

1 ☐ Inclination

2 ☐ Declination

3 ☐ Fluctuation

4 ☐ Demarcation

Solution:

Correct Answer : 2

 Answer key/Solut

Magnetic declination, or magnetic variation, is the angle on the horizontal plane between magnetic north (the direction the north end of a magnetized compass needle points, corresponding to the direction of the Earth's magnetic field lines) and true north (the direction along a meridian towards the geographic North Pole). This angle varies depending on position on the Earth's surface and changes over time.

Bookmark

FeedBack

Q.97 [11746091]

Choose the correct option about Tubarial gland:

- A. Discovered at Netherland Cancer Institute
- B. They are fourth pair of Salivary Glands
- C. Will benefit patients with Liver and Pancreatic cancer
- D. Its length is 3.5 mm

1 ☐ A, B, and C are correct.


2 ☐ B, C, and D are correct.

3 ☐ Only B and C are correct.

4 ☐ Only A and B are correct.

Solution:

Correct Answer : 4

 Answer key/Solut

The tubarial salivary glands, also known as the tubarial glands, are a pair of salivary glands found in humans between the nasal cavity and throat. The glands were discovered by a group of Dutch scientists at the Netherlands Cancer Institute in September 2020 using PET/CT scans. Most of the significance of the tubarial glands stems from their significance in radiotherapy. It is believed that avoiding the irradiation of the glands will prevent many of the side effects of radiotherapy, such as Xerostomia.

Bookmark

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Q.98 [11746091]

Priyanka Radhakrishna, is the first-ever Indian origin minister in which country?

1 ☐ New Zealand


2 ☐ Australia

3 ☐ United Kingdom

4 ☐ Fiji

Solution:

Correct Answer : 1

 Answer key/Solut

Indian-origin politician Priyanka Radhakrishnan created history by becoming the first Indian-Kiwi woman to become a minister in New Zealand. Radhakrishnan was one of five new ministers inducted into freshly reelected Labour Prime Minister Jacinda Ardern who also unveiled a revamped cabinet that she has described as “incredibly diverse”.

Bookmark

FeedBack

Q.99 [11746091]

Match List I with List II.

List I (Company)	List II (Person)
A. Dr. Reddy's Lab	I. Vinita Gupta
B. Cipla	II. Yusuf Hamied
C. Sun Pharma	III. Erez Israeli
D. Lupin	IV. Dilip Sanghvi

Choose the correct answer from the options given below:

1 ☐ A - III, B - I, C - IV, D - II

2 ☐ A - III, B - IV, C - I, D - II

3 ☐ A - III, B - II, C - I, D - IV

4 ☐ A - III, B - II, C - IV, D - I

Solution:

Correct Answer : 4

 Answer key/Solut

The fourth option matched correctly among the given options. Dilip Sanghvi is an Indian billionaire businessman and one of the country's richest people. He founded Sun Pharmaceuticals. Erez Israeli is the current CEO of Dr. Reddy's Laboratories. Yusuf Khwaja Hamied is a Polishborn- Indian scientist, billionaire businessman, the chairman of Cipla, a generic pharmaceuticals company founded by his father Khwaja Abdul Hamied in 1935. Vinita D. Gupta (born 1968) is an Indian businesswoman, the chief executive officer (CEO) of Lupin Limited since September 2013 and the chairperson of Lupin Inc (LI), and its US subsidiary, Lupin Pharmaceuticals Inc (LPI).

Bookmark

FeedBack

Q.100 [11746091]

World Economic Forum was founded by

1 ☐ Klaus Schwab

2 ☐ Milton Friedman

3 ☐ John Maynard Keynes

4 ☐ Friedrich Von Hayek

Solution:

Correct Answer : 1

Klaus Schwab is a German engineer and economist best known as the founder and executive chairman of the World Economic Forum.

 Answer key/Solut

Bookmark

FeedBack

Q.101 [11746091]

Logistic Performance Index is published by which organisation ?

1 ☐ World Economic Forum

2 ☐ Asian Development Bank

3 ☐ World Trade Organisation

4 ☐ World Bank

Solution:

Correct Answer : 4

The Logistics Performance Index is reported by the World Bank in every two years. The LPI is based on a worldwide survey of stakeholders on the ground providing feedback on the logistics “friendliness” of the countries in which they operate and those with which they trade.

 Answer key/Solut

Bookmark

FeedBack

Q.102 [11746091]

Match List I with List II.

List I (Sports Person)	List II (Sport)
A. Sebastian Vettel	I. Shooter
B. Brady Ellison	II. Cyclist
C. Tadej Pogacar	III. Archery
D. Divyansh Singh Pawar	IV. Car Racing

Choose the correct answer from the options given below

1 ☐ A - III, B - I, C - II, D - IV

2 ☐ A - IV, B - III, C - II, D - I


3 ☐ A - IV, B - II, C - I, D - III

4 ☐ A - III, B - II, C - IV, D - I

Solution:

Correct Answer : 2

Sebastian Vettel is a German racing driver who competes in Formula One for Aston Martin, having previously driven for BMW Sauber, Toro Rosso, Red Bull and Ferrari. Brady ‘The Arizona Cowboy’ Ellison is an American archer who competes in recurve archery. Tadej Pogacar is a Slovenian cyclist, who currently rides for UCI WorldTeam UAE Team Emirates. Divyansh Singh Panwar is an Indian sport shooter.

 Answer key/Solut

Bookmark

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Q.103 [11746091]

Ngultrum is the currency of-

1 ☐ Kingdom of Thailand

2 ☐ Republic of Nepal

3 ☐ Republic of Bhutan

4 ☐ Kingdom of Cambodia

Solution:

Correct Answer : 3

The ngultrum is the currency of the Kingdom of Bhutan. It is subdivided into 100 chhertum. The Royal Monetary Authority of Bhutan is the minting authority of the ngultrum banknotes and coins. The ngultrum is currently pegged to the Indian rupee at parity.

 Answer key/Solut

Bookmark

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Q.104 [11746091]

Which of the following country is not a member of ASEAN?

1 ☐ Thailand

2 ☐ Bangladesh

3 ☐ Vietnam

4 ☐ Myanmar

Solution:

Correct Answer : 2

India has participated in the 17th ASEAN-India Virtual Summit on the invitation of Vietnam, the current Chair of Association of Southeast Asian Nations (ASEAN). The summit focused on measures to recover from the economic turmoil triggered by the Covid-19 pandemic and ways to further broad-base strategic ties. ASEAN was founded in Bangkok, Thailand on 8 August 1967 when the five founding members – Indonesia, Malaysia, Philippines, Singapore and Thailand – signed the ASEAN Declaration. Since then, ASEAN has expanded and enlarged its membership with the inclusion of Brunei Darussalam, Cambodia, Lao PDR, Myar and Viet Nam. Bangladesh is not a member country in ASEAN.

 Answer key/Solut

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Q.105 [11746091]

Match the country with its Leader.

Country	Leader
(a) Australia	(i) Muhyiddin Yassin
(b) Malaysia	(ii) Pravind Jugnauth
(c) Srilanka	(iii) Mahendra Rajapaksa
(d) Mauritius	(iv) Scott Morrison

1 ☐ (a)-(iv), (b)-(i), (c)-(iii), (d)-(ii)

2 ☐ (a)-(ii), (b)-(i), (c)-(iv), (d)-(iii)

3 ☐ (a)-(iv), (b)-(iii), (c)-(ii), (d)-(i)

4 ☐ (a)-(i), (b)-(ii), (c)-(iii), (d)-(iv)

Solution:

Correct Answer : 1

Muhyiddin bin Haji Muhammad Yassin is a Malaysian politician who has served as the 8th Prime Minister of Malaysia since March 2020. Pravind Kumar Jugnauth is a Mauritian politician who is the Prime Minister of Mauritius. Percy Mahinda Rajapaksa, commonly known as Mahinda Rajapaksa, is the Prime Minister of Sri Lanka and Minister of Finance since 2019. Scott John Morrison is an Australian politician who is the 30th and current Prime Minister of Australia.

 Answer key/Solut

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Q.106 [11746091]

Which social media platform has received approval from the National Payments Corporation of India (NPCI), to enter UPI market?

1 ☐ Telegram

2 ☐ WhatsApp

3 ☐ WeChat

4 ☐ Facebook Messenger



Solution:

Correct Answer : 2

Your Answer : 2

WhatsApp Pay is an in-chat payment feature that allows users to make transactions via WhatsApp to their contact list. It is UPI-based payments service that allows you to both send and receive money. It was developed by the National Payments Corporation of India (NPCI). WhatsApp Pay was launched in February 2018 in India as part of a trial run. Payments through WhatsApp were introduced to a million users under a partnership with ICICI Bank. On February 7, 2020, the messaging app received NPCI's approval to roll out its digital payment service in a phased manner. In the first phase, WhatsApp will offer payment services to 10 million users in the country.

Answer key/Solution

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Q.107 [11746091]

Which nation has formally exited the Paris Climate Agreement?

1 ☐ India

2 ☐ Australia

3 ☐ United States of America

4 ☐ Russia

Solution:

Correct Answer : 3

After a three-year delay, the US has become the first nation in the world to formally withdraw from the Paris climate agreement. President Trump announced the move in June 2017, but UN regulations meant that his decision only takes effect today, the day after the US election. The US could re-join it in future, should a president choose to do so. The Paris deal was drafted in 2015 to strengthen the global response to the threat of climate change. It aims to keep the global temperature rise this century well below 2C above pre-industrial levels and to pursue efforts to limit the temperature increase even further to 1.5C.

Answer key/Solution

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Q.108 [11746091]

Which country has the largest labour force in the world?

1 ☐ India

2 ☐ China

3 ☐ USA

4 ☐ Brazil



Solution:

Correct Answer : 2

Your Answer : 1

The countries with the largest labor forces in the world are China, India, and the United States, with 806,300,000 laborers, 501,800,000 laborers, and 157,100,000 laborers, respectively. There are some key factors that allow these nations to field such substantial numbers of available workers.

Answer key/Solution

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Q.109 [11746091]

Birdie and Eagle are two terms related to which of the following sports ?

1 ☐ Polo

2 ☐ Golf

3 ☐ Chess

4 ☐ Billiards

Solution:

Correct Answer : 2

Birdie and Eagle are two terms related to Golf. Birdie: A hole played one stroke better than the expected standard (one under par). Eagle: A hole completed in two strokes under par.

 [Answer key/Solut](#)

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Q.110 [11746091]

The following Quad navies participated in the second phase of Malabar exercise that took place in the Arabian Sea in November, 2020:

1 ☐ India, US, Japan and Australia

2 ☐ Russia, India, France, Japan


3 ☐ US, Australia, China, Korea

4 ☐ Finland, Russia, Iran, US

Solution:

Correct Answer : 1

India, US, Japan and Australia have participated in the second phase of the Malabar naval exercise in the Northern Arabian Sea from November 17 to November 20. It is the first time in over a dozen years that the four countries are participating in such a large naval exercise — the first phase was conducted earlier this month off the Visakhapatnam coast. The four countries also form the Quadrilateral Security Dialogue, or the Quad, and their coming together for a major wargame sends a strong message to China at a time when India and China are involved in a military standoff in eastern Ladakh.

 [Answer key/Solut](#)

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