

RBE SSC CGL Tier-2 Live Mock December 17, 2025

Q. 1

The numbers of red, blue, and green marbles in a box are in the ratio 5 : 6 : 4. After adding 35 red marbles, 14 blue marbles, and some green marbles, the new ratio becomes 7 : 7 : 5. Find the number of green marbles added.

- a) 9 X
- b) 12 X
- c) 16 ✓
- d) 21 X

$$\begin{aligned} \text{Red marble} &= 5x \\ \text{Blue marble} &= 6x \\ \text{Green marble} &= 4x \end{aligned}$$

$$\frac{5x + 35}{6x + 14} = \frac{7}{7}$$

$$\begin{aligned} \Rightarrow 5x + 35 &= 6x + 14 \\ \Rightarrow x &= 21 \end{aligned}$$

$$\frac{21 \times 6 + 14}{21 \times 4 + K} = \frac{7}{5}$$

(K = no. of green marbles added)

$$\Rightarrow 21 \times 30 + 70 = 21 \times 28 + 7K$$

$$\Rightarrow 21 \times 2 + 70 = 7K$$

$$\Rightarrow K = 3 \times 2 + 10 = 16 \text{ (Ans)}$$

Q. 2

Raj's hatchback starts from A on a circular test track. Meera's sedan starts from B, which is 750 m ahead of A in the direction of motion. Raj's speed is 18 m/s, Meera's is 12 m/s, and the track's circumference is 1.8 km. What fraction of the track's circumference has Raj covered at the instant he first overtakes Meera?

- a) $\frac{3}{4}$ X
- b) $\frac{7}{2}$ X
- c) $\frac{1}{4}$ X
- d) $\frac{5}{4}$ ✓

Explanation:

- Relative speed = $18 - 12 = 6$ m/s.
- Time to close 750 m head start = $750/6 = 125$ s.
- Raj's distance = $18 \times 125 = 2250$ m.
- Fraction of circumference = $2250 / 1800 = 5/4 = 1$ and $1/4$ laps.
- Answer: $5/4$ of the circumference.

Q. 3

If $m + \frac{1}{m-3} = 8$, then $(m-3)^2 + \frac{1}{(m-3)^2} = ?$

- a) 27 X
- b) 23 ✓
- c) 21 X
- d) 25 X

$$m + \frac{1}{m-3} = 8$$

$$\Rightarrow (m-3) + \frac{1}{(m-3)} = 5$$

Explanation:

$$\text{let } (m-3) = t$$

$$t + \frac{1}{t} = 5$$

$$t^2 + \frac{1}{t^2} = 25 - 2$$

$$= 23 \text{ (Ans)}$$

Q. 4

Petrol price increases by 6% from a pre-hike price of Rs. 88 per litre. In the same month, Anita's car mileage drops from 22 km/L to 20 km/L due to city traffic. She must still cover 2,200 km in the month. By how many rupees does her monthly fuel bill increase? (approximately)

- a) Rs. 1,689 X
- b) Rs. 1,461 ✓
- c) Rs. 1,292 X
- d) Rs. 1,987 X

Explanation:

- Old litres = $2,200/22 = 100$ L.
- Old monthly cost = $100 \times 88 = \text{Rs. } 8,800$.
- New price = $88 \times 1.06 = \text{Rs. } 93.28$.
- New litres (lower mileage) = $2,200/20 = 110$ L.
- New monthly cost = $110 \times 93.28 = \text{Rs. } 10,260.8$.
- Increase = $10,260.8 - 8,800 = \text{Rs. } 1,460.8 \approx \text{Rs. } 1,461$ (nearest rupee).

Q. 5

Neha, Pooja, and Siya start a partnership with ₹1,50,000, ₹1,20,000, and ₹90,000 respectively. After 3 months, Siya doubles her capital; after 6 months, Pooja withdraws ₹20,000. The business runs for 12 months. Find the ratio of profits.

- a) 64 : 42 : 57 X
- b) 54 : 48 : 61 X
- c) 32 : 39 : 58 X
- d) 60 : 44 : 63 ✓

| | | |
|------------------|---|--|
| Neha | Pooja | Siya |
| $150K \times 12$ | $120K \times 6$ + $100K \times 6$ | $90K \times 3$ + $180K \times 9$ |

Explanation:

$$\Rightarrow 180 : 132 : 189$$
$$\Rightarrow [60 : 44 : 63]$$

(K represents 1000)

Q. 6

A contractor commits to finish a bridge in 150 days and initially employs 90 workers of equal efficiency. After 90 days, only 45% of the work is done. To meet the deadline without penalty, how many additional workers must be hired for the remaining period, assuming the same efficiency?

- a) 45 X
- b) 65 X
- c) 75 ✓
- d) 85 X

Explanation:

$$\frac{45\% \text{ of work}}{55\% \text{ of work}} = \frac{90 \text{ days} \times 90 \text{ workers}}{60 \text{ days} \times x \text{ workers}}$$

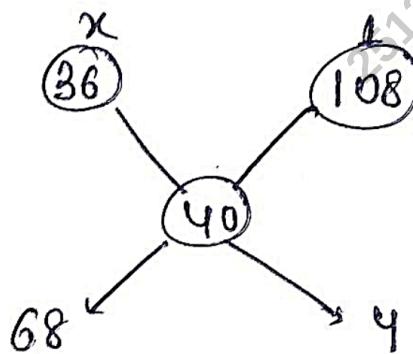
$$\Rightarrow \frac{9}{11} = \frac{90 \times 3}{2x} \Rightarrow x = 165$$

\therefore No. of additional workers required $= 165 - 90 \Rightarrow 75$ (Ans)

Q. 7

A batsman's average for a certain number of innings is 36. After scoring 108 in the next innings, his average becomes 40. How many innings had he played earlier?

- a) 17 ✓
- b) 15 ✗
- c) 11 ✗
- d) 21 ✗



$$\frac{36x + 108}{x+1} = 40 \Rightarrow 36x + 108 = 40(x+1)$$

Explanation:

Basic method :-

No. of Innings he had
played earlier = x

$$\frac{36x + 108}{x+1} = 40$$

$$\Rightarrow 36x + 108 = 40x + 40$$

$$\Rightarrow 4x = 68 \Rightarrow x = 17 \text{ (Ans)}$$

Q. 8

A tank contains a blend of three chemicals A, B, and C in the ratio 4 : 3 : 5. First, 24 litres of the blend are removed and replaced by 16 litres of pure A and 12 litres of pure B. If the resultant quantity of A exceeds the resultant quantity of B by 12 litres, find the initial total quantity of the mixture (in litres).

- a) 60 X
- b) 120 ✓
- c) 96 X
- d) 144 X

Explanation:

$$\begin{array}{ccc}
 A & : & B & : & C \\
 4K & & 3K & & 5K \\
 -8l & \downarrow \frac{(24 \times 4)}{12} & \cancel{(24 \times 3)} - 6l & \downarrow \cancel{(24 \times 5)} - 10l \\
 4K - 8 & & 3K - 6 & & 5K - 10 \\
 \downarrow +16 & & \downarrow +12 & & \downarrow \\
 4K + 8 & & 3K + 6 & & 5K - 10 \\
 \end{array}$$

(12)

$$\Rightarrow (4K + 8) - (3K + 6) = 12$$

$$\Rightarrow K + 2 = 12 \Rightarrow K = 10$$

\therefore Initial solution = $12K$

$$= 12 \times 10$$

$$= 120 \text{ l}$$

Q. 9

A town has males and females in a ratio of 5:3. After 5 years, the male population increases by 12%, and the female population by 20%. What is the new ratio?

- a) 16 : 7 X
- b) 12 : 5 X
- c) 14 : 9 ✓
- d) 9 : 4 X

$$\frac{\text{Male}}{\text{Female}} = \frac{5 \times 112}{3 \times 120}$$

Explanation:

$$\frac{M}{F} = \frac{14}{9} \text{ (Ans)}$$

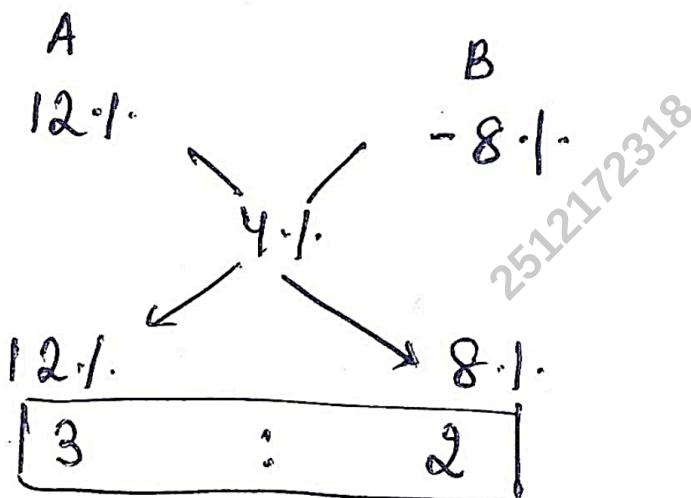
Q. 10

A trader invests a total of ₹6,000 in two schemes. Scheme A yields a 12% profit, while Scheme B incurs an 8% loss. If the trader's overall result is a profit of ₹240, how much was invested in Scheme A?

- a) ₹3,300 X
- b) ₹3,600 ✓
- c) ₹2,400 X
- d) ₹3,900 X

$$\frac{240}{6000} \times 100 = 4\%$$

Explanation:



$$\begin{aligned} 5 &\rightarrow 6000 \\ 1 &\rightarrow 1200 \\ 3 &\rightarrow 3600 \end{aligned}$$

(Ans)

Q. 11

A tap can fill a tank in 18 hours. After one-third of the tank is filled, 5 more identical taps are opened. How long does it take to fill the tank completely?

- a) 7 hours X
- b) 8 hours ✓
- c) 9 hours X
- d) 12 hours X

Tank is completely filled in
18 hrs.

$\frac{1}{3}$ rd of the tank is filled in
 $18 \times \frac{1}{3} = 6$ hrs.

Explanation:

$$18 \times 1 \text{ tap} = 6 \text{ hr} \times 1 \text{ tap} + 2 \text{ hr} + 6 \text{ tap}$$

$$\Rightarrow 18 = 6 + 6x \Rightarrow 12 = 6x$$

$$\Rightarrow x = 2 \text{ hr}$$

$$\therefore \text{Total time} = 6 \text{ hr} + 2 \text{ hr} \Rightarrow 8 \text{ hr (Ans)}$$

Q. 12

A courier bike travels a route at 48 km/h in 1 hour 40 minutes. If congestion increases the journey time by 20 minutes, by what percentage must the average speed decrease to match the longer time?

- a) 12.5% X
- b) 16.67% ✓
- c) 18.34% X
- d) 11.11% X

Explanation:

- Original time $T_1 = 1 \text{ h } 40 \text{ min} = 100 \text{ min} = \frac{5}{3} \text{ h}$.
- Distance $D = 48 \times \frac{5}{3} = 80 \text{ km}$.
- New time $T_2 = 120 \text{ min} = 2 \text{ h}$.
- New speed $v_2 = D/T_2 = 80/2 = 40 \text{ km/h}$.
- Percentage decrease $= [(48 - 40)/48] \times 100 = 16.67\%$.
- Answer: 16.67% decrease.

Q. 13

Find the compound interest on ₹13,000 at 9% p.a. for 1 year 8 months, compounded annually.

- a) 1020.2 X
- b) 2000.2 X
- c) 2020.2 ✓
- d) 3020.2 X

$$\begin{aligned}12 \text{ months} &\rightarrow 9\%. \\8 \text{ months} &\rightarrow \frac{9}{12} \times 8 \\&= 6\%. \end{aligned}$$

9%, 6%

$$\Rightarrow 9\% + 6\% + \frac{9 \times 6}{100}$$

$\Rightarrow 15.54\%$

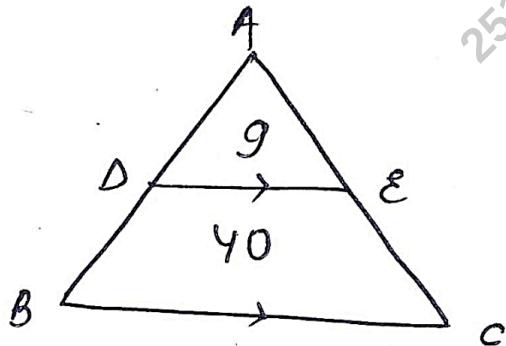
$$\begin{aligned}13,000 \times 15.54\%. \\= 2020.2 \text{ (Ans)} \end{aligned}$$

Explanation:

Q. 14

In $\triangle ABC$, a line segment DE is parallel to BC , with D on AB and E on AC . If the ratio of the area of $\triangle ADE$ to the area of the trapezoid $DECB$ is $9:40$, what is the ratio of AD to DB ?

- a) $3 : 4$ ✓
- b) $2 : 3$ ✗
- c) $5 : 4$ ✗
- d) $7 : 3$ ✗



Explanation:

$$\frac{\text{Area of } \triangle ADE}{\text{Area of } \triangle ABC} = \frac{9}{49}$$

$$\frac{AD}{AB} = \sqrt{\frac{9}{49}} = \frac{3}{7}$$

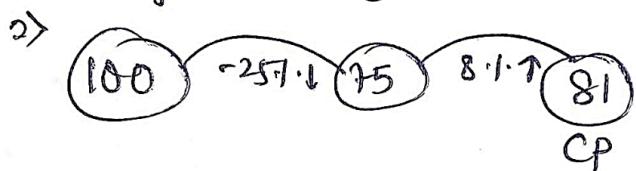
$$\Rightarrow AD : DB = 3 : 4 \text{ (Ans)}$$

Q. 15

A publisher gives a 25% discount on the cover price of a textbook to a campus store, and also charges 8% on the discounted price for packing. The store sells the book at a 30% profit on its total cost and earns ₹1,560 profit on one copy. Find the original cover price.

- a) ₹6,740 X
- b) ₹6,420 ✓
- c) ₹6180 X
- d) ₹6560 X

Let cost of original
Cover price = ₹100



Explanation:

$$30\% \rightarrow 1560$$

$$100\% \rightarrow 5200$$

$$CP = 5200$$

$$81 \rightarrow 5200$$

$$100 \rightarrow \frac{5200}{81} \times 100 \approx 6420$$

| | |
|---|--|
| <p>Q. 16</p> | <p>In triangle PQR, the Euler line is horizontal and passes through the points $(-2, 1)$, $(4, 1)$, and $(10, 1)$. Which of these is the centroid of triangle PQR?</p> <p>a) $(10, 1)$ X</p> <p>b) $(-2, 1)$ X</p> <p>c) $(4, 1)$ X</p> <p>d) None of this ✓</p> |
| <p>Explanation:</p> <p>The given points $((-2, 1), (4, 1), (10, 1))$ are collinear and equally spaced. None of these points divides the segment joining the other two in the ratio $(1:2)$.</p> <p>Therefore, none of the given points can be uniquely identified as the centroid, and the given information is insufficient.</p> | <p>On the Euler line, the centroid (G) divides the line segment joining the circumcenter (O) and the orthocenter (H) in the fixed ratio $(OG : GH = 1 : 2)$. Hence, the centroid must divide the segment between the other two points in this ratio.</p> |

| | |
|---|---|
| <p>Q. 17</p> | <p>Consider the following two statements and Reason (R). Evaluate them and choose the appropriate answer from the given options.</p> <p>Assertion (A): Any whole number larger than one can be written as the result of multiplying prime numbers together.</p> <p>Reason (R): The Fundamental Theorem of Arithmetic guarantees unique prime factorizations for all rational numbers.</p> <p>a) Both A and R are true, and R is the correct explanation of A. X</p> <p>b) Both A and R are true, but R is not the correct explanation of A. X</p> <p>c) A is true, but R is false. ✓</p> <p>d) A is false, but R is true. X</p> |
| <p>Explanation:</p> <p>Assertion (A): "Any whole number larger than one can be written as the result of multiplying prime numbers together." This is true — it's the essence of prime factorization.</p> <p>Reason (R): "The Fundamental Theorem of Arithmetic guarantees unique prime factorizations for all rational numbers." X This is false — the theorem applies to positive integers, not all rational numbers.</p> <p>Correct answer: A is true, but R is false</p> | <p>Assertion (A): "Any whole number larger than one can be written as the result of multiplying prime numbers together." This is true — it's the essence of prime factorization.</p> <p>Reason (R): "The Fundamental Theorem of Arithmetic guarantees unique prime factorizations for all rational numbers." X This is false — the theorem applies to positive integers, not all rational numbers.</p> <p>Correct answer: A is true, but R is false</p> |

Q. 18

What is the value of $21^3 + 13^3 - 34^3 + 92$?

- a) -25697 X
- b) -26682 X
- c) -29451 X
- d) -27754 ✓

$$a = 21, b = 13, c = -34$$

$$a + b + c = 0$$

$$\therefore a^3 + b^3 + c^3 = 3abc$$

$$\Rightarrow 3(21)(13)(-34) + 92$$

$$\Rightarrow -27846 + 92$$

$$\Rightarrow -27,754$$

(Solve using unit digit
as unit digit is different
in all the four options)

Explanation:

Q. 19

A square pyramid has lateral surface area equal to three times its base area. If the base side is 4 cm, find the slant height.

- a) 9 cm X
- b) 6 cm ✓
- c) 8 cm X
- d) 10 cm X

lateral surface area
of a pyramid = $\frac{1}{2} \times \text{Base Perimeter} \times \text{Sl. Height}$

Explanation:

$$\Rightarrow \frac{1}{2} \times 4a \times \text{sl} = 3 \times a^2$$

$$\Rightarrow \frac{1}{2} \times 4 \times 4 \times \text{sl} = 3 \times 4 \times 4$$

$$\Rightarrow \text{sl} = 6 \text{ cm} \quad (\text{Ans})$$

Q. 20

$$\frac{1+\cos\theta-\sin^2\theta}{\sin\theta(1+\cos\theta)} \times \frac{\sqrt{\sec^2\theta+\csc^2\theta}}{\tan\theta+\cot\theta}, 0^\circ < \theta < 90^\circ, \text{ is equal to:}$$

- a) $\cot\theta$ ✓
b) $\tan\theta$ ✗
c) $\sin\theta$ ✗
d) $\csc\theta$ ✗

$$\frac{1+\cos\theta-\sin^2\theta}{\sin\theta(1+\cos\theta)} \times \frac{\sqrt{\sec^2\theta+\csc^2\theta}}{\tan\theta+\cot\theta}$$

$$\Rightarrow \frac{\cos^2\theta+\cos\theta}{\sin\theta(1+\cos\theta)} \times \frac{\sqrt{\sec^2\theta+\csc^2\theta}}{\frac{\sin\theta}{\cos\theta}+\frac{\cos\theta}{\sin\theta}}$$

$$\Rightarrow \frac{\cos\theta(1+\cos\theta)}{\sin\theta(1+\cos\theta)} \times \frac{\sqrt{\frac{\sin^2\theta+\cos^2\theta}{\sin^2\theta \cos^2\theta}}}{\frac{\sin^2\theta+\cos^2\theta}{\sin\theta \cos\theta}}$$

$$\Rightarrow \cot\theta \times \frac{1/\sec}{1/\csc} \Rightarrow \cot\theta (\text{Ans})$$

Explanation:

Q. 21

If the cubic equation $x^3 - 4x^2 + 5x - 2 = 0$ has the roots x, y, z , then find the value of $x^3 + y^3 + z^3$.

- a) 4 X
- b) 8 X
- c) 10 ✓
- d) 12 X

$$ax^3 + bx^2 + cx + d = 0$$

Sum of roots:
 $\Rightarrow x + y + z = -b/a$

Sum of product of roots
 (taken two at a time)
 $\Rightarrow xy + yz + zx = c/a$

Product of roots
 $\Rightarrow xyz = -d/a$

$$x^3 - 4x^2 + 5x - 2 = 0$$

$$x + y + z = 4, \quad xy + yz + zx = 5$$

$$xyz = 2$$

$$x^3 + y^3 + z^3 - 3xyz = (x+y+z)[(x+y+z)^2 - 3(xy+yz+zx)]$$

$$\Rightarrow 4[(4)^2 - 3 \times 5] = 4$$

$$\Rightarrow x^3 + y^3 + z^3 = 4 + 3xyz$$

$$= 4 + 3 \times 2 \Rightarrow 10 \text{ (Ans)}$$

Explanation:

Q. 22

A shopkeeper buys 6 pens at the marked price of 5 pens from a wholesaler. He then sells each pen at a discount of 10% on the marked price. What is his overall profit percentage?

- a) 8% ✓
- b) 10% ✗
- c) 12% ✗
- d) 20% ✗

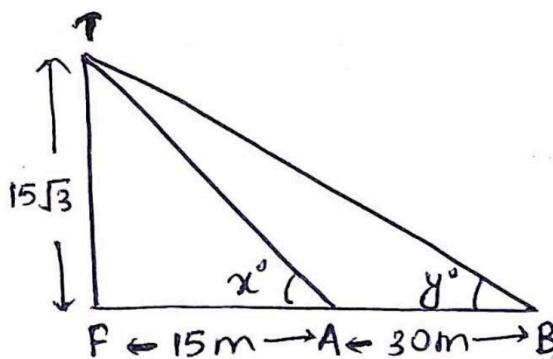
Explanation:

$$\begin{aligned} \text{let, } MP &= 60 \\ CP &= 50 \\ SP &= 60 \times 90\%. = 54 \\ \therefore \text{Profit} &= \frac{54 - 50}{50} \times 100 \\ &\Rightarrow 8 \% \text{ (Ans)} \end{aligned}$$

Q. 23

A vertical pole PQ has its base Q on the ground. From a point A, 15 meters from Q, the angle of elevation of P is x° . From another point B, 45 meters from Q (and in the same line as A), the angle of elevation of P is y° . If the height of the pole is $15\sqrt{3}$ meters, what is the value of $x^\circ + y^\circ$?

- a) 60° X
- b) 75° X
- c) 90° ✓
- d) 108° X



Explanation:

$$\tan x^\circ = \frac{15\sqrt{3}}{15} \Rightarrow \tan x^\circ = \sqrt{3}$$
$$\Rightarrow x^\circ = 60^\circ$$

$$\tan y^\circ = \frac{15\sqrt{3}}{45} \Rightarrow \tan y^\circ = \frac{\sqrt{3}}{3}$$

$$\tan y^\circ = \frac{1}{\sqrt{3}} \Rightarrow y^\circ = 30^\circ$$

$$\therefore x^\circ + y^\circ = 90^\circ \text{ (Ans)}$$

Q. 24

From a sample of 180 data analysts, determine the ratio of those proficient in SQL to those proficient in Excel using the given information:

| Category | Number |
|-----------------------------|--------|
| Proficient in SQL and Excel | 45 |
| Proficient in SQL only | 55 |
| Proficient in Excel only | 60 |
| Proficient in neither | 20 |

- a) 11 : 12 X
- b) 20 : 21 ✓
- c) 3 : 4 X
- d) 11 : 4 X

Explanation:

People who know SQL

$$\begin{aligned} &= \text{Those who know only SQL} + \text{Those who know both} \\ &= 55 + 45 = 100 \end{aligned}$$

People who know Excel

$$\begin{aligned} &= \text{Those who know only Excel} + \text{Those who know both} \\ &= 60 + 45 = 105 \end{aligned}$$

Ratio of SQL : Excel

$$= 100 : 105$$

Simplify by dividing both numbers by 5 $\rightarrow 20 : 21$

Q. 25

In a college, the ratio of boys to girls is 9:7. After 21 girls join and 12 boys leave, the new ratio becomes 15:14. What was the initial total number of students?

- a) 322 X
- b) 414 X
- c) 368 ✓
- d) 494 X

Let initial number of boys = $9x$

Let initial number of girls = $7x$

After changes:

$$\text{Boys} = 9x - 12$$

$$\text{Girls} = 7x + 21$$

$$\text{New ratio} = (9x - 12) : (7x + 21) = 15 : 14$$

Explanation:

$$\Rightarrow \frac{9x - 12}{7x + 21} = \frac{15}{14}$$

$$\Rightarrow 14(9x - 12) = 15(7x + 21)$$

$$\Rightarrow 126x - 168 = 105x + 315$$

$$\Rightarrow 21x = 483 \Rightarrow x = 23$$

$$\text{Initial total} = 16x = 16 \times 23 = 368$$

Q. 26

Find the equation of the line passing through (1, 2) with slope = 3.

- a) $y = 3x + 1$ X
- b) $y = 3x - 1$ ✓
- c) $y = -3x + 1$ X
- d) $y = -3x - 1$ X

Explanation:

$$y = mx + c$$

Substitute $m = 3$, $x = 1$, $y = 2$:

$$\begin{aligned}2 &= 3(1) + c \\2 &= 3 + c \quad \text{So, equation:} \\c &= -1\end{aligned}$$

$$y = 3x - 1$$

Correct Answer: B) $y = 3x - 1$

Q. 27

What is the mean of the range and median of the given data?

8, 15, 22, 10, 13, 18, 25, 20, 12, 30, 16, 14

- a) 19.25 X
- b) 20.75 X
- c) 18.75 ✓
- d) 17.25 X

Explanation:

Arrange in ascending order
8, 10, 12, 13, 14, 15, 16, 18, 20, 22, 25, 30

Find the range
Range = Highest – Lowest = 30 – 8 = 22

Find the median
There are 12 numbers → median = average of 6th and 7th terms
 $= (15 + 16) / 2 = 15.5$

Find the mean of range and median
 $= (22 + 15.5) / 2 = 18.75$

Q. 28

If the mean, median, and mode of a moderately skewed distribution are $(2x + 1)$, $(3x - 2)$, and $(4x - 3)$ respectively, find the value of x .

- a) 3 X
- b) 6 X
- c) 5 ✓
- d) 8 X

For a moderately skewed distribution,

$$\text{Mode} = 3(\text{Median}) - 2(\text{Mean})$$

Explanation:

$$4x - 3 = 3(3x - 2) - 2(2x + 1)$$

$$4x - 3 = 9x - 6 - 4x - 2$$

$$4x - 3 = 5x - 8$$

$$x = 5$$

Q. 29

A bag contains 5 blue and 7 green balls. One ball is drawn and replaced with another ball of the same colour, then a second ball is drawn. What is the probability of getting 2 green balls?

- a) $49/144$ ✓
- b) $144/121$ X
- c) $9/49$ X
- d) $36/49$ X

$$P(\text{Green}) = \frac{7}{5 + 7} = \frac{7}{12}$$

Explanation:

Since the ball is replaced, draws are **independent**.
 $P(2 \text{ Green}) = (7/12) \times (7/12) = 49/144$

Q. 30

What is the value of $\frac{0.1 \times 0.1 \times 0.1 + 0.03 \times 0.03 \times 0.03}{0.3 \times 0.3 \times 0.3 + 0.09 \times 0.09 \times 0.09}$.

- a) 0.027 X
- b) 0.009 X
- c) 0.729 X
- d) 0.037 ✓

Explanation:

$$\frac{0.1 \times 0.1 \times 0.1 + 0.03 \times 0.03 \times 0.03}{0.3 \times 0.3 \times 0.3 + 0.09 \times 0.09 \times 0.09}$$

$$\Rightarrow \frac{1 \times 10^{-3} + 27 \times 10^{-6}}{27 \times 10^{-3} + 729 \times 10^{-6}}$$

$$\Rightarrow \frac{10^{-3}(1 + 27 \times 10^{-3})}{10^{-3}(27 + 729 \times 10^{-3})}$$

$$\Rightarrow \frac{1 + 0.027}{27 + 0.729} \Rightarrow \frac{1.027}{27.729}$$

$$\Rightarrow \frac{1027}{27729} \approx 0.037 \left(\frac{1}{27} = 0.037 \right)$$

Q. 31

Select the set in which the numbers are related in the same way as are the numbers of the following sets. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 – Operations on 13 such as adding to/subtracting from/multiplying with 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(32, 497, 23)

(28, 413, 21)

a) (32, 544, 24) ✓

b) (28, 398, 32) ✗

c) (38, 594, 29) ✗

d) (22, 404, 26) ✗

Explanation:

Pattern: Middle number = (Third number)² – (First number)

- Check given:

$$23^2 - 32 = 529 - 32 = 497 \checkmark$$

$$21^2 - 28 = 441 - 28 = 413 \checkmark$$

- Options:

$$(32, 544, 24): 24^2 - 32 = 576 - 32 = 544 \checkmark \text{ (matches)}$$

Others don't satisfy.

Q. 32

Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of ::?

: AIP :: MRV : %

a) # = ELR, % = QUX ✗

b) # = WFN, % = QUX ✓

c) # = IOT, % = WFN ✗

d) # = QUX, % = ELR ✗

Explanation:

- MRV → QUX: M→Q (+4), R→U (+3), V→X (+2)
- Apply same pattern to # → AIP → # = WFN

Answer: # = WFN , % = QUX

Q. 33

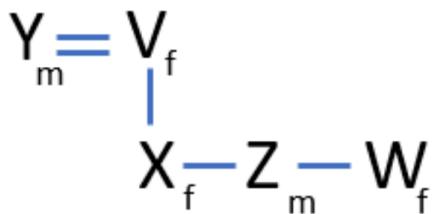
If,

'A @ B' means 'A is the father of B',
'A * B' means 'A is the brother of B',
'A # B' means 'A is the sister of B',
'A \$ B' means 'A is the daughter of B',
'A = B' means 'A is the mother of B',
then how is V related to X in the following expression?

X \$ Y @ Z * W = V

- a) Brother's wife X
- b) Daughter X
- c) Mother ✓
- d) Sister X

Explanation:



V is the mother of X.

Q. 34

Statement:

The meteorological department has reported that a severe storm is likely to hit the city during the next forty-eight hours.

Courses of Action:

- I. The administration should advise all the business and educational establishments to close down for two days.
- II. The administration should not make the information public as it could create panic among the residents of the city.
- III. The administration should activate its disaster management program to tackle any possible emergency situation.

- a) Only I and III follow ✓
- b) Only III follows ✗
- c) Only II and III follow ✗
- d) All follow ✗

Explanation:

The administration should strive to prevent the residents of the city from the ensuing danger. This can be done by persuading residents to stay indoors and putting emergency relief operation mechanism to work. Thus, both I and III follow.

Further, the storm is likely to play havoc with the lives of the general public if it comes as a surprise to them. So, II does not follow.

Q. 35

In a certain code language, 'LAKSHMI' is written as '2412219161318' and 'CAPTAIN' is written as '6132202928'. How will 'SURGEON' be written in that language?

- a) 3821367101528 ✓
- b) 3821367103028 ✗
- c) 3821187101528 ✗
- d) 38213614101528 ✗

Explanation:

Pattern: Alternate letters take $\times 2$, then $\times 1$, then $\times 2$, ... of alphabet positions.

- LAKSHMI \rightarrow L(12) $\times 2 = 24$, A=1, K(11) $\times 2 = 22$, S=19, H(8) $\times 2 = 16$, M=13, I(9) $\times 2 = 18 \rightarrow 2412219161318$
- CAPTAIN \rightarrow C(3) $\times 2 = 6$, A=1, P(16) $\times 2 = 32$, T(20) $\times 2 = 40$, I(9) $\times 2 = 18$, N(14) $\times 2 = 28 \rightarrow 6132202928$

For SURGEON: S(19) $\times 2 = 38$, U=21, R(18) $\times 2 = 36$, G=7, E(5) $\times 2 = 10$, O=15, N(14) $\times 2 = 28 \rightarrow 3821367101528$.

Q. 36

Select the option that represents the letters that, when sequentially placed from left to right in the blanks below, will complete the letter series.
PRKY_LDP_ _YOLD_RKYO_DPRK_ _LD

- a) ORPLKYO
- b) ORKLPOD
- c) ORKPLYO
- d) ORPKYLP

Explanation:

PRKYOLD/PRKYOLD/PRKYOLD/PRKYOLD

Q. 37

Which number should replace the question mark (?) in the following number series?

5475, 1100, 225, 50, ?, 8, 6.6

- a) 45
- b) 35
- c) 25
- d) 15

Explanation:

Pattern: Each term = (previous term \div 5) + 5

$$5475 \rightarrow 5475/5 + 5 = 1095 + 5 = 1100$$

$$1100 \rightarrow 1100/5 + 5 = 220 + 5 = 225$$

$$225 \rightarrow 225/5 + 5 = 45 + 5 = 50$$

$$50 \rightarrow 50/5 + 5 = 10 + 5 = 15 \text{ (missing)}$$

$$15 \rightarrow 15/5 + 5 = 3 + 5 = 8$$

$$8 \rightarrow 8/5 + 5 = 1.6 + 5 = 6.6$$

Q. 38

Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.

$$864 : 12 :: 1372 : 14 :: 2048 : ?$$

- a) 14 X
- b) 16 ✓
- c) 18 X
- d) 20 X

Logic:

$$\text{First number} = (\text{second number})^3 \div 2$$

Explanation:

- $12^3 \div 2 = 864$
- $14^3 \div 2 = 1372$
- $2048 = y^3 \div 2 \Rightarrow y^3 = 4096 \Rightarrow y = 16$ ✓

Q. 39

The 18th of November is a Thursday. What day is the last day of January (next year, non-leap)?

- a) Friday X
- b) Tuesday X
- c) Wednesday X
- d) Monday ✓

Explanation:

- Nov has 30 days. From Nov 18 (Thu) \rightarrow Nov 30 is 12 days later \Rightarrow Thu +12 \equiv Tue \Rightarrow Dec 1 = Wed.
- December has 31 days \Rightarrow weekday shifts by +2 \Rightarrow Dec 31 = Fri \Rightarrow Jan 1 = Sat.
- January has 31 days \Rightarrow shift +2 again \Rightarrow Jan 31 = Monday.

Q. 40

Select the option that represents the correct order of the given words as they would appear in an English dictionary.

1. Microphone

2. Microchip

3. Microscope

4. Microbe

5. Microcosm

6. Microfiber

a) 2, 4, 5, 6, 1, 3



b) 4, 2, 6, 5, 1, 3



c) 4, 2, 5, 6, 1, 3.



d) 4, 5, 2, 6, 1, 3



Explanation:

Reason: After "Micro...", order is **be, chip, , cosm, fiber, phone, scope** \Rightarrow 4, 2, 5, 6, 1, 3.

\Rightarrow Microbe (4), Microchip (2), Microcosm (5), Microfiber (6), Microphone (1), Microscope (3).

Q. 41

Each vowel in the word "SCHOLAR" is changed to the next letter in the English alphabetical series and each consonant is changed to the previous letter in the English alphabetical series. In the newly formed word, how many alphabets are there in the English alphabetical series between the alphabet which is 3rd from the left and 1st from the right?

a) 11



b) 9



c) 6



d) 8



Explanation:

- Word: SCHOLAR

Vowels \rightarrow next letter; Consonants \rightarrow previous letter

- S \rightarrow R, C \rightarrow B, H \rightarrow G, O \rightarrow P, L \rightarrow K, A \rightarrow B, R \rightarrow Q

New word: RBGPKBQ

- 3rd from left = G; 1st from right = Q.

- Letters between G and Q: H, I, J, K, L, M, N, O, P = 9.

Q. 42

Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.

GIST: FEHGRQSR :: DUCK: CBT SBAJI :: LOPE: ?

a) KJNMOND**C**

b) KJNMNOD**C**

c) KJNOMNDC**C**

d) KJNMONCD**C**

Explanation:

Pattern: For each letter x in the word, write $x - 1$ and $x - 2$ (previous two letters), keeping the original order.

- GIST \rightarrow G: F,E; I: H,G; S: R,Q; T: S,R \Rightarrow FEHGRQSR
- DUCK \rightarrow D: C,B; U: T,S; C: B,A; K: J,I \Rightarrow CBT SBAJI
- LOPE \rightarrow L: K,J; O: N,M; P: O,N; E: D,C \Rightarrow KJNMOND**C**

Q. 43

Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.

a) PTXB**C**

b) GKOS**C**

c) HKNQ**C**

d) MQUY**C**

Explanation:

Answer: HKNQ

- PTXB: +4 each step (P \rightarrow T, T \rightarrow X, X \rightarrow B)
- GKOS: +4 each step (G \rightarrow K, K \rightarrow O, O \rightarrow S)
- MQUY: +4 each step (M \rightarrow Q, Q \rightarrow U, U \rightarrow Y)
- HKNQ: +3 each step (H \rightarrow K, K \rightarrow N, N \rightarrow Q)

Q. 44

Select the set in which the numbers are related in the same way as the numbers of the following sets.

(Note: Do not split the numbers into their individual digits. Operations must be performed on the whole numbers. For example, for 13 you may add/subtract/multiply etc. with 13 itself. Splitting 13 into 1 and 3 and then doing mathematical operations with 1 and 3 is not allowed.)

$$[(\frac{7}{9}), (\frac{31}{39})], [(\frac{3}{5}), (\frac{15}{23})]$$

a) $[(\frac{9}{11}), (\frac{32}{37})]$

b) $[(\frac{11}{13}), (\frac{47}{55})]$

c) $[(\frac{17}{19}), (\frac{26}{77})]$

d) $[(\frac{9}{13}), (\frac{37}{55})]$

Given two example sets:

- $(7/9) \rightarrow (31/39)$
- $(3/5) \rightarrow (15/23)$

Notice the same transformation is applied to numerator and denominator:

$$(a/b) \rightarrow (4a + 3) / (4b + 3)$$

Check:

- $7 \rightarrow 4 \times 7 + 3 = 28 + 3 = 31$, and $9 \rightarrow 4 \times 9 + 3 = 36 + 3 = 39 \checkmark$
- $3 \rightarrow 4 \times 3 + 3 = 12 + 3 = 15$, and $5 \rightarrow 4 \times 5 + 3 = 20 + 3 = 23 \checkmark$

Therefore, choose the option in which each fraction is obtained by applying the same rule: multiply numerator and denominator by 4 and then add 3 to each.

Answer: (b) $[(\frac{11}{13}), (\frac{47}{55})]$

Reason: Use the rule $(a/b) \rightarrow (4a + 3)/(4b + 3)$.

$$\text{For } 11/13: (4 \times 11 + 3) / (4 \times 13 + 3) = 47/55.$$

Q. 45

Select the set in which the numbers are related in the same way as are the numbers of the following sets. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /Subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

(35, 63, 315)

(7, 28, 28)

a) (39, 63, 345)

x

b) (53, 62, 405)

x

c) (89, 54, 512)

x

d) (49, 49, 343)

4

Rule: Third = (First \times Second) \div 7

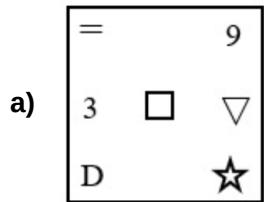
- Given:
 $(35, 63, 315) \rightarrow 35 \times 63 / 7 = 315 \checkmark$
 $(7, 28, 28) \rightarrow 7 \times 28 / 7 = 28 \checkmark$
 - Options check:
 - (a) $39 \times 63 / 7 = 351 \neq 345 \text{ } \times$
 - (b) $53 \times 62 / 7 \neq 405 \text{ } \times$
 - (c) $89 \times 54 / 7 \neq 512 \text{ } \times$
 - (d) $49 \times 49 / 7 = 343 \checkmark$

Explanation:

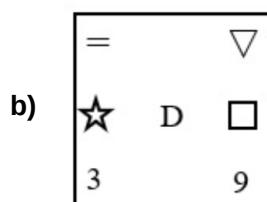
Q. 46

Select the figure that will replace the question mark (?) in the following figure series.

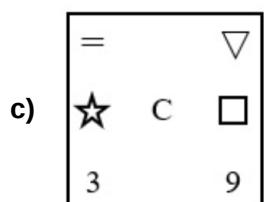
| | | | | | | | |
|-----------|---|---|-----------|-----------|---|---------|-----------|
| ∇ | O | = | ∇ | \square | D | 3 | \square |
| = | 3 | D | \square | O | 9 | 3 | \star |
| \square | 9 | 3 | D | = | 9 | \star | ∇ |



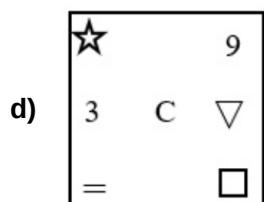
✗



✗



✓



✗

Explanation:



Q. 47

Which two signs and numbers need to be interchanged to make the following equation correct?

$$24 - (9 \div 12) + (84 \times 4) + 28 = 23$$

- a) 9 and 4, \div and \times X
- b) 24 and 28, $-$ and \div X
- c) 24 and 28, \times and \div X
- d) 12 and 4, \div and \times ✓

Explanation:

Answer: 12 and 4, \div and \times (option 3)

Check:

Swap 12 \leftrightarrow 4 and $\div \leftrightarrow \times$ in

$$\begin{aligned}24 - (9 \div 12) + (84 \times 4) + 28 \\ \Rightarrow 24 - (9 \times 4) + (84 \div 12) + 28 \\ = 24 - 36 + 7 + 28 = 23\end{aligned}$$



Q. 48

Choose the statement(s) that are sufficient to answer the question.

How is the girl in the photograph related to Kunal?

- I. Pointing to the photograph, Kunal said, "She is the mother of my father's only granddaughter."
- II. Kunal has no siblings.
- III. Pointing to the photograph, Kunal said, "She is the only daughter-in-law of my mother."

- a) Any two of the three X
- b) Either only III or only I and II ✓
- c) Only II and III X
- d) None of these X

Explanation:

(b): From I, we conclude that the girl is either Kunal's or his brother's wife. But, according to II, Kunal has no siblings.

So, from both I and II, we conclude that the girl is Kunal's wife.

From III, we find that the girl is the only daughter-in-law of Kunal's mother i.e. she is Kunal's wife.

Q. 49

Directions: In each question below is given a statement followed by two conclusions numbered I and II. You have to assume everything in the statement to be true, then consider the two conclusions together and decide which of them logically follows beyond a reasonable doubt from the information given in the statement.

Statement:

Prime age school-going children in urban India have now become avid as well as more regular viewers of television, even in households without a T.V. As a result, there has been an alarming decline in the extent of readership of newspapers.

Conclusions:

- I. Method of increasing the readership of newspapers should be devised.
- II. A team of experts should be sent to other countries to study the impact of T.V. on the readership of newspapers.

- a) Only conclusion I follows
- b) Only conclusion II follows
- c) Both I and II follow
- d) Neither I nor II follows

Explanation:

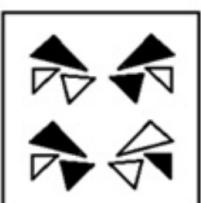
The statement concentrates on the increasing viewership of T.V. and does not stress either on increasing the readership of newspapers or making studies regarding the same. So, neither I nor II follows.

Q. 50

Which of the answer figures is the exact mirror image of the given problem figure when the mirror is held at the right side?



a)



✗

b)



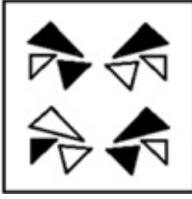
✓

c)



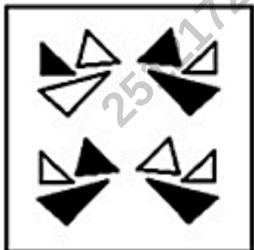
✗

d)



✗

Explanation:



Q. 51

For the statement below, decide which arguments are strong.

Statement:

Should there be a complete ban on genetically modified imported seeds?

Arguments:

- I. Yes. This will boost the demand of domestically developed seeds.
- II. No. This is the only way to increase production substantially.
- III. Yes. Genetically modified products will adversely affect the health of those who consume these products.

- a) Only I and II are strong X
- b) Only II is strong X
- c) Only II and III are strong X
- d) Only I and III are strong ✓

Explanation:

Argument I:

Yes. This will boost the demand of domestically developed seeds.

→ This is a logical and relevant point. Banning imported GM seeds can promote the use and development of Indian seeds, helping domestic agriculture and research.

✓ Therefore, **Argument I is strong.**

Argument II:

No. This is the only way to increase production substantially.

→ This argument is weak because it assumes that imported GM seeds are the *only* way to boost production. There can be many other ways like better irrigation, hybrid seeds, soil management, etc. The statement is too absolute and not fully justified.

✗ So, **Argument II is weak.**

Argument III:

Yes. Genetically modified products will adversely affect health of consumers.

→ This directly addresses safety and health concerns, which is a major reason people oppose GM crops globally. It is relevant and logically supports the idea of banning.

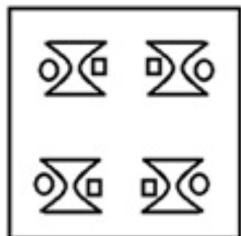
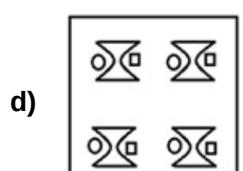
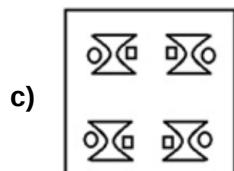
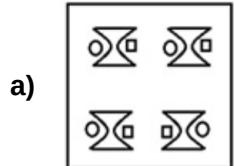
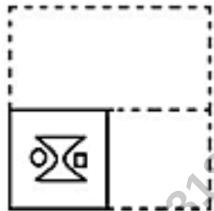
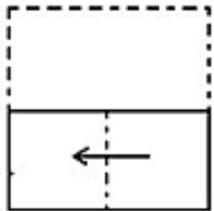
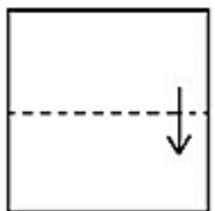
✓ Hence, **Argument III is strong.**

Final Answer:

Strong Arguments → I and III

Q. 52

The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown below. Choose the figure that would most closely resemble the unfolded form of the paper.



Q. 53

Statements:

All keys are locks.

No lock is a door.

All doors are houses.

Conclusions:

I. No key is a door.

II. Some houses are not locks.

a) Only conclusion I follows

✗

b) Only conclusion II follows

✗

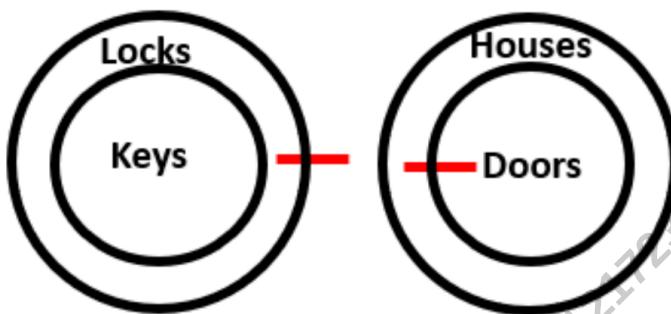
c) Either I or II follows

✗

d) Both I and II follow

✓

Explanation:



Explanation:

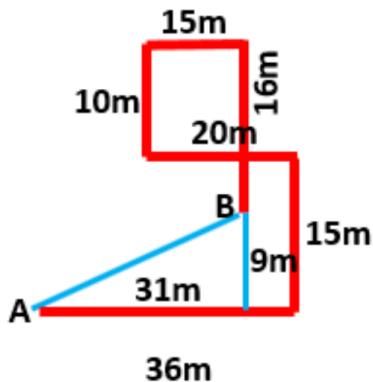
- From the first two statements — *All keys are locks* and *No lock is a door* — it is clear that **no key can be a door**.
- From the third statement — *All doors are houses* — and since **no lock is a door**, we can say that **the houses which have doors are not locks**.
So, **some houses are not locks** is also true.

Q. 54

Sanya starts from A facing east. She walks 36 m, turns left and walks 15 m, turns left and walks 20 m, turns right and walks 10 m, turns right and walks 15 m, then turns right again and walks 16 m to reach B. What is the Approximate shortest distance AB and the direction of B from A?

- a) 32 m, North-East ✓
- b) 25 m, North-East ✗
- c) 30 m, North ✗
- d) 28 m, East ✗

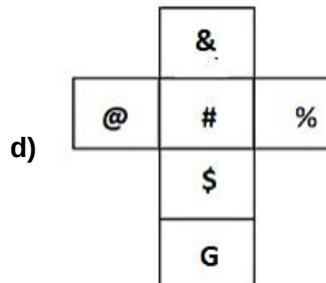
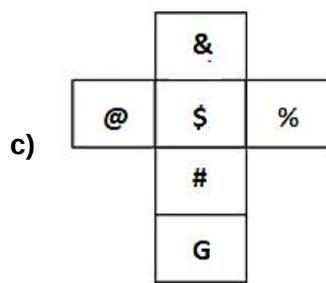
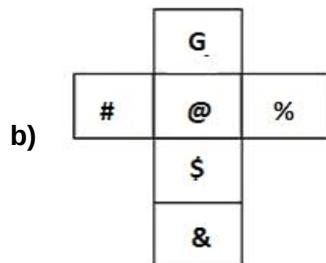
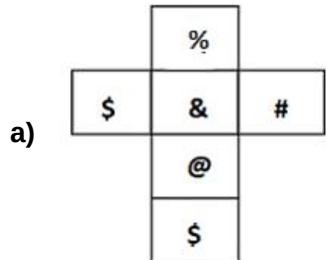
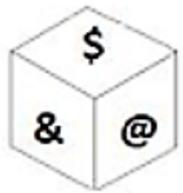
Explanation:



$$\text{Shortest distance } AB = \sqrt{31^2 + 9^2} = \sqrt{1042} \approx 32.28 \text{ m}$$

Q. 55

Two orientations of a dice are shown. This dice can be obtained by folding which of the option figures along the lines?



The faces opposite across the cube are:

Explanation:

- & \leftrightarrow # (opposite)
- @ \leftrightarrow % (opposite)
- \$ \leftrightarrow (the remaining sixth symbol not shown)

Q. 56

Jahnavi is the sister of Taruni. Taruni is married to Dilip. Dilip is the father of Raghu. Manoj is the son of Hema. Taruni is the mother-in-law of Hema. Dilip has only one son and no daughter. Jahnavi is married to Barun. Lekha is the daughter of Barun. How is Jahnavi's sister related to Manoj's paternal grandfather?

- a) Wife ✓
- b) Sister ✗
- c) Daughter ✗
- d) Mother ✗

Explanation:

- Jahnavi's sister = Taruni.
- Taruni is married to Dilip.
- Manoj's mother = Hema, and Taruni is Hema's **mother-in-law** \Rightarrow Hema is married to Raghu (Taruni & Dilip's only son).
- So Manoj's **paternal grandfather** = Dilip.
- Hence Jahnavi's sister (Taruni) is Dilip's **wife**.

Q. 57

If

$A > B = C < D \geq E = F \leq G$,
then which of the following is definitely true?

- (a) $G \geq D$
- (b) $F < D$
- (c) $A > E$
- (d) $B = F$
- a) Only (a) ✗
- b) Only (a) and (b) ✗
- c) Only (b) ✗
- d) None of these ✓

Explanation:

Given: $A > B = C < D \geq E = F \leq G$

Now check each option:

- (a) $G \geq D \rightarrow$ Not sure, because **G** and **D** have no fixed link.
- (b) $F < D \rightarrow$ Not sure, since **D** could be equal to **F**.
- (c) $A > E \rightarrow$ Not sure, because **A** and **E** are not connected.
- (d) $B = F \rightarrow$ Not sure, because **B** ($=C$) and **F** ($=E$) are not connected.

So, we can't say any of them is definitely true.

Q. 58

How many meaningful English words can be formed using the 1st, 4th, 5th, and 11th letters of the word ENVIRONMENTAL?

- a) None
- b) One
- c) Two
- d) More than two

Explanation:

Word = ENVIRONMENTAL (13 letters)
Positions needed: 1st, 4th, 5th, 11th

- 1st = E
- 4th = I
- 5th = R
- 11th = T

Letters = E, I, R, T → meaningful 4-letter words (each letter used once):
TIER, TIRE, RITE → 3 words.

Q. 59

In a college, the Art room, the Library, the Gym, the Labs, the Storerooms, the Staffrooms and the Classrooms are there on seven different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it is numbered 2, and so on till the topmost floor is numbered 7. No other floors are there below the Library, and the Library is immediately below the Gym. Only two floors are there between the Gym and the Classrooms. Both the Labs and the Staffrooms are on even-numbered floors. Only three floors are there between the Storerooms and the Art room. The Storerooms are immediately below the Labs. Which of the following is/are there on floor number 4?

- a) Storerooms
- b) Art room
- c) Labs
- d) Staffrooms

Explanation:

According to the question:

7th → Art room
6th → Staffrooms
5th → Classrooms
4th → Labs
3rd → Storerooms
2nd → Gym
1st → Library

Hence, **Labs** is on **floor number 4**.

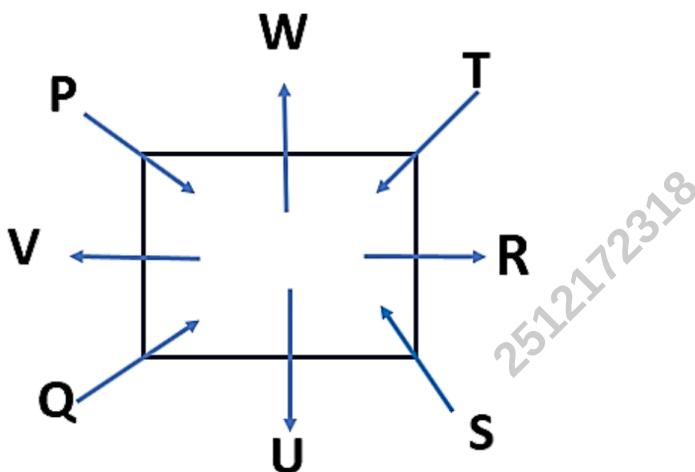
Explanation:

Q. 60

Eight friends P, Q, R, S, T, U, V, and W are sitting around a square table in such a way that four of them are sitting at the four corners of the square, while the remaining four are sitting between the corners (on the sides). Those who are sitting at the corners face towards the centre, while those sitting between the sides face outwards. P, who faces towards the centre, sits third to the right of U. T, who faces towards the centre, is not sitting next to U. Only one person sits between U and V. Q is facing towards the centre. R is not an immediate neighbour of P. Which of the following is facing out?

- a) S
- b) V
- c) Q
- d) P

Explanation:



Q. 61

Read the given passage and answer the following questions carefully:

Stoicism, a school of Hellenistic philosophy, has undergone a curious resurgence in modern culture, particularly among entrepreneurs and "life-hack" enthusiasts. At its core, Stoicism posits that while we cannot control external events, we can control our *perception* of those events. The virtuous life, according to Stoics like Marcus Aurelius, is achieved by cultivating an inner 'citadel' of tranquility, remaining indifferent to an externality—be it wealth, health, or reputation. This 'apatheia', or freedom from disturbing passions, is the ultimate goal. However, the modern adaptation of Stoicism often cherry-picks its tenets, reducing a complex ethical framework into a mere tool for productivity and emotional resilience in the face of corporate pressure. It risks becoming a philosophy of *endurance* rather than one of *virtue*. True Stoicism is not about impassively accepting a toxic work environment; it is about rationally determining what is within our control (our judgments, our actions) and what is not (our boss's temperament, market crashes), and then acting with justice, courage, and temperance. It is an active, not a passive, philosophy. The modern "bro-Stoicism," as it is sometimes pejoratively called, often misses this crucial element of social and ethical responsibility, focusing instead on personal equanimity as an end in itself.

Q- What is the author's main criticism of the modern adaptation of Stoicism?

- a) It oversimplifies the philosophy, turning it into a self-help tool for productivity rather than a complete ethical system. ✓
- b) It is no longer relevant in the modern corporate world. ✗
- c) It incorrectly teaches that people should be indifferent to wealth and health. ✗
- d) It is too focused on the writings of Marcus Aurelius. ✗

✓ Correct Answer: It oversimplifies the philosophy, turning it into a self-help tool for productivity rather than a complete ethical system.

Justification:

- The author clearly states that modern Stoicism "cherry-picks its tenets", reducing it to a **tool for productivity and emotional resilience**, especially in corporate settings.
- This **dilutes** the original Stoic emphasis on **virtue, justice, courage, and temperance**, replacing it with **mere endurance and personal equanimity**.
- The phrase "*risks becoming a philosophy of endurance rather than one of virtue*" directly supports this criticism.

Explanation:

Q. 62

Read the given passage and answer the following questions carefully:

Stoicism, a school of Hellenistic philosophy, has undergone a curious resurgence in modern culture, particularly among entrepreneurs and "life-hack" enthusiasts. At its core, Stoicism posits that while we cannot control external events, we can control our *perception* of those events. The virtuous life, according to Stoics like Marcus Aurelius, is achieved by cultivating an inner 'citadel' of tranquility, remaining indifferent to an externality—be it wealth, health, or reputation. This 'apatheia', or freedom from disturbing passions, is the ultimate goal. However, the modern adaptation of Stoicism often cherry-picks its tenets, reducing a complex ethical framework into a mere tool for productivity and emotional resilience in the face of corporate pressure. It risks becoming a philosophy of *endurance* rather than one of *virtue*. True Stoicism is not about impassively accepting a toxic work environment; it is about rationally determining what is within our control (our judgments, our actions) and what is not (our boss's temperament, market crashes), and then acting with justice, courage, and temperance. It is an active, not a passive, philosophy. The modern "bro-Stoicism," as it is sometimes pejoratively called, often misses this crucial element of social and ethical responsibility, focusing instead on personal equanimity as an end in itself.

Q- The passage contrasts "a philosophy of endurance" with "one of virtue" to:

- a) Suggest that endurance is a more important skill than virtue. X
- b) Show that both endurance and virtue are required for a tranquil life. X
- c) Criticize ancient Stoics for not being resilient enough. X
- d) Highlight that modern Stoicism focuses on just "getting through" problems rather than acting with moral integrity. ✓

✓ Correct Answer: Highlight that modern Stoicism focuses on just "getting through" problems rather than acting with moral integrity.

Explanation:

- The passage states that modern Stoicism "risks becoming a philosophy of endurance rather than one of virtue", implying that it emphasizes surviving adversity rather than acting ethically.
- The author contrasts true Stoicism, which involves justice, courage, and temperance, with "bro-Stoicism", which reduces the philosophy to emotional resilience and productivity hacks.
- The phrase "just getting through problems" aligns with the idea of passive endurance, while "moral integrity" reflects the Stoic commitment to virtue.

Explanation:

Q. 63

Read the given passage and answer the following questions carefully:

Stoicism, a school of Hellenistic philosophy, has undergone a curious resurgence in modern culture, particularly among entrepreneurs and "life-hack" enthusiasts. At its core, Stoicism posits that while we cannot control external events, we can control our *perception* of those events. The virtuous life, according to Stoics like Marcus Aurelius, is achieved by cultivating an inner 'citadel' of tranquility, remaining indifferent to an externality—be it wealth, health, or reputation. This 'apatheia', or freedom from disturbing passions, is the ultimate goal. However, the modern adaptation of Stoicism often cherry-picks its tenets, reducing a complex ethical framework into a mere tool for productivity and emotional resilience in the face of corporate pressure. It risks becoming a philosophy of *endurance* rather than one of *virtue*. True Stoicism is not about impassively accepting a toxic work environment; it is about rationally determining what is within our control (our judgments, our actions) and what is not (our boss's temperament, market crashes), and then acting with justice, courage, and temperance. It is an active, not a passive, philosophy. The modern "bro-Stoicism," as it is sometimes pejoratively called, often misses this crucial element of social and ethical responsibility, focusing instead on personal equanimity as an end in itself.

Q- A person truly practicing "apatheia," as described by the ancient Stoics, would most likely:

- a) Quit their job when faced with a difficult boss. X
- b) Feel no emotions, whether of joy or sadness. X
- c) Remain calm and rational when they receive an unexpected demotion, focusing on their own response. ✓
- d) Work 100-hour weeks to achieve a promotion, ignoring the physical toll. X

✓ Correct Answer: Remain calm and rational when they receive an unexpected demotion, focusing on their own response.

Explanation:

- The passage defines "apatheia" as *freedom from disturbing passions*, not the absence of all emotion.
- Ancient Stoicism emphasizes **controlling one's perception and response**, not external events.
- The correct option reflects **Stoic rationality, emotional discipline, and focus on what is within one's control** — exactly as described in the passage.

Explanation:

Q. 64

Read the given passage and answer the following questions carefully:

Stoicism, a school of Hellenistic philosophy, has undergone a curious resurgence in modern culture, particularly among entrepreneurs and "life-hack" enthusiasts. At its core, Stoicism posits that while we cannot control external events, we can control our *perception* of those events. The virtuous life, according to Stoics like Marcus Aurelius, is achieved by cultivating an inner 'citadel' of tranquility, remaining indifferent to an externality—be it wealth, health, or reputation. This 'apatheia', or freedom from disturbing passions, is the ultimate goal. However, the modern adaptation of Stoicism often cherry-picks its tenets, reducing a complex ethical framework into a mere tool for productivity and emotional resilience in the face of corporate pressure. It risks becoming a philosophy of *endurance* rather than one of *virtue*. True Stoicism is not about impassively accepting a toxic work environment; it is about rationally determining what is within our control (our judgments, our actions) and what is not (our boss's temperament, market crashes), and then acting with justice, courage, and temperance. It is an active, not a passive, philosophy. The modern "bro-Stoicism," as it is sometimes pejoratively called, often misses this crucial element of social and ethical responsibility, focusing instead on personal equanimity as an end in itself.

Q- What is the meaning of the word "pejoratively" as used in the passage?

- a) In a way that is technically accurate. X
- b) In a manner that expresses contempt or disapproval. ✓
- c) In an ancient or outdated sense. X
- d) In a complimentary or praiseworthy way. X

✓ Correct Answer: In a manner that expresses contempt or disapproval.

Explanation:

- The word "pejoratively" is used in the phrase: "*The modern 'bro-Stoicism,' as it is sometimes pejoratively called...*"
- This implies that the term "bro-Stoicism" is used with a **negative connotation**, suggesting **criticism or disapproval** of the modern, diluted version of Stoicism.

Q. 65

Read the given passage and answer the following questions carefully:

The village of Oymyakon, nestled deep in Siberia, is not just a place; it is a testament to human endurance. Known as the "Pole of Cold," it holds the record for the lowest temperature ever recorded in an inhabited area. Here, the banal realities of life are warped by the extreme: ink freezes in pens, batteries die almost instantly, and spectacles fuse to the wearer's face. The ground is a solid, unyielding mass of permafrost, making plumbing an impossibility and burial a multi-day ordeal involving bonfires to thaw the earth.

Yet, life persists, governed by a set of unwritten rules. Locals, or 'Yakutians', have adapted with a blend of ingenuity and stoicism. Their diet is heavily carnivorous, as crops cannot grow. Cars are left running 24/7, lest their engines freeze solid. Children attend school until the temperature drops *below* -55°C. There is a stark, brutal beauty to the landscape—the "ice fog" that hangs in the air, the diamond dust of ice crystals shimmering in the weak sunlight. But this existence is a constant, precarious negotiation with an environment that is profoundly inhospitable. It is not a life of comfort, but one of resilience, a concept that perhaps the rest of us, in our climate-controlled worlds, have forgotten.

Q- What is the central theme of this passage?

- a) The beauty of the Siberian landscape. X
- b) The dangers of climate change in the Arctic. X
- c) The extraordinary adaptation and resilience of people in an extremely harsh environment. ✓
- d) The technological solutions required to live in Oymyakon. X

✓ Correct Answer: The extraordinary adaptation and resilience of people in an extremely harsh environment.

Explanation:

- The passage emphasizes how **life in Oymyakon** is a **testament to human endurance**, highlighting the **extreme cold, daily challenges, and the creative adaptations** of the **Yakutians**.
- Phrases like "*life persists*," "*blend of ingenuity and stoicism*," and "*not a life of comfort, but one of resilience*" directly support this theme.
- The focus is on **how people survive and thrive** in a place that is **profoundly inhospitable**, not on beauty, climate change, or technology.

Explanation:

Q. 66

Read the given passage and answer the following questions carefully:

The village of Oymyakon, nestled deep in Siberia, is not just a place; it is a testament to human endurance. Known as the "Pole of Cold," it holds the record for the lowest temperature ever recorded in an inhabited area. Here, the banal realities of life are warped by the extreme: ink freezes in pens, batteries die almost instantly, and spectacles fuse to the wearer's face. The ground is a solid, unyielding mass of permafrost, making plumbing an impossibility and burial a multi-day ordeal involving bonfires to thaw the earth.

Yet, life persists, governed by a set of unwritten rules. Locals, or 'Yakutians', have adapted with a blend of ingenuity and stoicism. Their diet is heavily carnivorous, as crops cannot grow. Cars are left running 24/7, lest their engines freeze solid. Children attend school until the temperature drops *below* -55°C. There is a stark, brutal beauty to the landscape—the "ice fog" that hangs in the air, the diamond dust of ice crystals shimmering in the weak sunlight. But this existence is a constant, precarious negotiation with an environment that is profoundly inhospitable. It is not a life of comfort, but one of resilience, a concept that perhaps the rest of us, in our climate-controlled worlds, have forgotten.

Q- What can be inferred about the "banal realities of life" in Oymyakon?

- a) They are exactly the same as everywhere else. X
- b) They do not exist; life is only about survival. X
- c) They are simpler and more peaceful than in the modern world. X
- d) They are rendered complex and challenging by the extreme cold. ✓

✓ Correct Answer: They are rendered complex and challenging by the extreme cold.

Inference Breakdown:

- The phrase in the passage: "*Here, the banal realities of life are warped by the extreme...*" → This directly implies that **ordinary tasks** (writing, using batteries, wearing glasses) become **extraordinarily difficult** due to the **harsh climate**.
- Examples provided:
 - *Ink freezes in pens*
 - *Spectacles fuse to the face*
 - *Burial requires bonfires to thaw the earth*

These show that **mundane activities** are transformed into **complex challenges**.

Explanation:

Q. 67

Read the given passage and answer the following questions carefully:

The village of Oymyakon, nestled deep in Siberia, is not just a place; it is a testament to human endurance. Known as the "Pole of Cold," it holds the record for the lowest temperature ever recorded in an inhabited area. Here, the banal realities of life are warped by the extreme: ink freezes in pens, batteries die almost instantly, and spectacles fuse to the wearer's face. The ground is a solid, unyielding mass of permafrost, making plumbing an impossibility and burial a multi-day ordeal involving bonfires to thaw the earth.

Yet, life persists, governed by a set of unwritten rules. Locals, or 'Yakutians', have adapted with a blend of ingenuity and stoicism. Their diet is heavily carnivorous, as crops cannot grow. Cars are left running 24/7, lest their engines freeze solid. Children attend school until the temperature drops *below* -55°C. There is a stark, brutal beauty to the landscape—the "ice fog" that hangs in the air, the diamond dust of ice crystals shimmering in the weak sunlight. But this existence is a constant, precarious negotiation with an environment that is profoundly inhospitable. It is not a life of comfort, but one of resilience, a concept that perhaps the rest of us, in our climate-controlled worlds, have forgotten.

Q- The passage mentions that burial is a "multi-day ordeal" primarily to:

- a) Emphasize the religious dedication of the Yakutians. X
- b) Illustrate how the permanently frozen ground impacts even the most fundamental human rituals. ✓
- c) Explain the main cause of death in the village. X
- d) Describe the local customs of Oymyakon. X

✓ Correct Answer: Illustrate how the permanently frozen ground impacts even the most fundamental human rituals.

Explanation:

- The phrase "*burial a multi-day ordeal involving bonfires to thaw the earth*" highlights the **extreme difficulty** of performing even **basic human rites** due to the **permafrost**.
- The author uses this example to show how **daily life is distorted** by the environment — not to discuss religion, causes of death, or cultural customs.

Explanation:

Q. 68

Read the given passage and answer the following questions carefully:

The village of Oymyakon, nestled deep in Siberia, is not just a place; it is a testament to human endurance. Known as the "Pole of Cold," it holds the record for the lowest temperature ever recorded in an inhabited area. Here, the banal realities of life are warped by the extreme: ink freezes in pens, batteries die almost instantly, and spectacles fuse to the wearer's face. The ground is a solid, unyielding mass of permafrost, making plumbing an impossibility and burial a multi-day ordeal involving bonfires to thaw the earth.

Yet, life persists, governed by a set of unwritten rules. Locals, or 'Yakutians', have adapted with a blend of ingenuity and stoicism. Their diet is heavily carnivorous, as crops cannot grow. Cars are left running 24/7, lest their engines freeze solid. Children attend school until the temperature drops *below* -55°C. There is a stark, brutal beauty to the landscape—the "ice fog" that hangs in the air, the diamond dust of ice crystals shimmering in the weak sunlight. But this existence is a constant, precarious negotiation with an environment that is profoundly inhospitable. It is not a life of comfort, but one of resilience, a concept that perhaps the rest of us, in our climate-controlled worlds, have forgotten.

Q- When the author says the inhabitants' existence is a "precarious negotiation," they mean:

- a) Life is a constant, delicate balance against the lethal threat of the environment. ✓
- b) The Yakutians frequently barter and trade for survival. ✗
- c) The locals are in constant disagreement with one another. ✗
- d) They are uncertain about their political future. ✗

✓ Correct Answer: Life is a constant, delicate balance against the lethal threat of the environment.

Explanation:

- The phrase "*a constant, precarious negotiation with an environment that is profoundly inhospitable*" refers to the **daily struggle** and **adaptive strategies** Yakutians must employ to survive in extreme cold.
- The word "**precarious**" implies **risk and instability**, while "**negotiation**" metaphorically suggests a **delicate balance** — not literal trade or political uncertainty.

Explanation:

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Q. 69

Read the given passage and answer the following questions carefully:

The advent of cryptocurrency, particularly Bitcoin, represents a paradigm shift in financial technology, challenging the very foundations of centralized banking and monetary control. Unlike fiat currencies, which are backed by governments and central banks, cryptocurrencies derive their value from a decentralized network, cryptographic proof, and community consensus. This decentralization is achieved through blockchain technology, a distributed ledger that records transactions immutably. However, this revolutionary potential is not without significant perils.

The volatility of cryptocurrencies is legendary; assets can gain or lose double-digit percentages of their value within a single day. This makes them a precarious store of value and an unstable medium of exchange. Furthermore, the anonymity afforded by many cryptocurrencies, while lauded by privacy advocates, has also made them a tool of choice for illicit activities, including money laundering and funding terrorism. Regulators worldwide are grappling with this dichotomy: how to foster the innovation of decentralized finance (DeFi) while mitigating its systemic risks. The environmental impact, particularly the "proof-of-work" consensus mechanism's enormous energy consumption, adds another layer of profound concern, creating a trilemma of security, decentralization, and scalability that remains largely unresolved.

Q- What is the central "dichotomy" that regulators are facing, according to the passage?

- a) The conflict between the high energy consumption and the security of the blockchain. X
- b) The difference in value between fiat currencies and cryptocurrencies. X
- c) The challenge of balancing the innovative potential of DeFi with its inherent risks and potential for misuse. ✓
- d) The competition between different cryptocurrencies like Bitcoin and other altcoins. X

✓ **Correct Answer:** The challenge of balancing the innovative potential of DeFi with its inherent risks and potential for misuse.

Explanation:

- The passage explicitly states: "*Regulators worldwide are grappling with this dichotomy: how to foster the innovation of decentralized finance (DeFi) while mitigating its systemic risks.*"
- This clearly defines the **central dichotomy** as the **tension between innovation and risk** — especially misuse like **money laundering, terrorism funding, and volatility**.

Explanation:

Q. 70

Read the given passage and answer the following questions carefully:

The advent of cryptocurrency, particularly Bitcoin, represents a paradigm shift in financial technology, challenging the very foundations of centralized banking and monetary control. Unlike fiat currencies, which are backed by governments and central banks, cryptocurrencies derive their value from a decentralized network, cryptographic proof, and community consensus. This decentralization is achieved through blockchain technology, a distributed ledger that records transactions immutably. However, this revolutionary potential is not without significant perils.

The volatility of cryptocurrencies is legendary; assets can gain or lose double-digit percentages of their value within a single day. This makes them a precarious store of value and an unstable medium of exchange. Furthermore, the anonymity afforded by many cryptocurrencies, while lauded by privacy advocates, has also made them a tool of choice for illicit activities, including money laundering and funding terrorism. Regulators worldwide are grappling with this dichotomy: how to foster the innovation of decentralized finance (DeFi) while mitigating its systemic risks. The environmental impact, particularly the "proof-of-work" consensus mechanism's enormous energy consumption, adds another layer of profound concern, creating a trilemma of security, decentralization, and scalability that remains largely unresolved.

Q- According to the passage, why are cryptocurrencies considered a "precarious store of value"?

- a) Because they are not backed by any government or central bank. X
- b) Because they are primarily used for illicit and illegal activities. X
- c) Because their energy consumption is environmentally unsustainable. X
- d) Because their value is subject to extreme and rapid fluctuations. ✓

✓ Correct Answer: Because their value is subject to extreme and rapid fluctuations.

Explanation:

- The passage states: "*The volatility of cryptocurrencies is legendary; assets can gain or lose double-digit percentages of their value within a single day. This makes them a precarious store of value...*"
- This directly links **volatility** — rapid and unpredictable changes in value — to the idea of being a **precarious store of value**.

Explanation:

Q. 71

Read the given passage and answer the following questions carefully:

The advent of cryptocurrency, particularly Bitcoin, represents a paradigm shift in financial technology, challenging the very foundations of centralized banking and monetary control. Unlike fiat currencies, which are backed by governments and central banks, cryptocurrencies derive their value from a decentralized network, cryptographic proof, and community consensus. This decentralization is achieved through blockchain technology, a distributed ledger that records transactions immutably. However, this revolutionary potential is not without significant perils.

The volatility of cryptocurrencies is legendary; assets can gain or lose double-digit percentages of their value within a single day. This makes them a precarious store of value and an unstable medium of exchange. Furthermore, the anonymity afforded by many cryptocurrencies, while lauded by privacy advocates, has also made them a tool of choice for illicit activities, including money laundering and funding terrorism. Regulators worldwide are grappling with this dichotomy: how to foster the innovation of decentralized finance (DeFi) while mitigating its systemic risks. The environmental impact, particularly the "proof-of-work" consensus mechanism's enormous energy consumption, adds another layer of profound concern, creating a trilemma of security, decentralization, and scalability that remains largely unresolved.

Q- What does the author imply by the "trilemma of security, decentralization, and scalability"?

- a) That a perfect cryptocurrency system cannot be created. X
- b) That security is the most important aspect, even if it means sacrificing scalability. X
- c) That achieving all three of these attributes simultaneously is an extremely difficult, and perhaps an unsolved, problem. ✓
- d) That decentralization is the main cause of the environmental impact. X

✓ Correct Answer: That achieving all three of these attributes simultaneously is an extremely difficult, and perhaps an unsolved, problem.

Explanation:

- The passage refers to the "trilemma of security, decentralization, and scalability" as a challenge that "remains largely unresolved".
- This implies that **balancing all three** — ensuring robust security, maintaining decentralization, and achieving scalable performance — is a **complex and unresolved issue** in cryptocurrency design.

Explanation:

Q. 72

Read the given passage and answer the following questions carefully:

The advent of cryptocurrency, particularly Bitcoin, represents a paradigm shift in financial technology, challenging the very foundations of centralized banking and monetary control. Unlike fiat currencies, which are backed by governments and central banks, cryptocurrencies derive their value from a decentralized network, cryptographic proof, and community consensus. This decentralization is achieved through blockchain technology, a distributed ledger that records transactions immutably. However, this revolutionary potential is not without significant perils.

The volatility of cryptocurrencies is legendary; assets can gain or lose double-digit percentages of their value within a single day. This makes them a precarious store of value and an unstable medium of exchange. Furthermore, the anonymity afforded by many cryptocurrencies, while lauded by privacy advocates, has also made them a tool of choice for illicit activities, including money laundering and funding terrorism. Regulators worldwide are grappling with this dichotomy: how to foster the innovation of decentralized finance (DeFi) while mitigating its systemic risks. The environmental impact, particularly the "proof-of-work" consensus mechanism's enormous energy consumption, adds another layer of profound concern, creating a trilemma of security, decentralization, and scalability that remains largely unresolved.

Q- What is the primary purpose of the author in this passage?

- a) To provide a balanced overview of the revolutionary nature of cryptocurrencies and their significant drawbacks. ✓
- b) To advocate for the complete ban of all decentralized finance. ✗
- c) To explain the technical workings of the "proof-of-work" mechanism. ✗
- d) To persuade the reader to invest in cryptocurrencies. ✗

Explanation:

✓ Correct Answer: To provide a balanced overview of the revolutionary nature of cryptocurrencies and their significant drawbacks.

Explanation:

- The author begins by highlighting the **transformative potential** of cryptocurrency, calling it a "**paradigm shift**" and explaining its **decentralized value system**.
- However, the passage also details **serious concerns**:
 - **Volatility**
 - **Illicit use due to anonymity**
 - **Regulatory challenges**
 - **Environmental impact of proof-of-work**
- This dual focus shows the author's intent to **present both the promise and the perils** of cryptocurrency in a **balanced, analytical tone**.

Q. 73

In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

The concept of 'fake news' is not a 21st-century invention; propaganda and misinformation have been (1) ____ of political warfare for centuries. However, the advent of social media has (2) ____ the speed and scale of its dissemination to an unprecedented degree. In the past, information was (3) ____ by gatekeepers—editors, publishers, and journalists. The digital age has democratized content creation, but in doing so, it has also dismantled the traditional mechanisms of (4) _____. The ecosystem of the internet, driven by engagement metrics and algorithmic biases, often (5) ____ sensationalism and falsehoods over sober, verified facts, creating echo chambers that polarize society.

What will come in blank (1)?

- a) staples ✓
- b) nuances ✗
- c) relics ✗
- d) refinements ✗

✓ Correct Answer: staples

Explanation:

- The sentence: "Propaganda and misinformation have been (1) ____ of political warfare for centuries."
- The word "staples" means **essential or commonly used elements**, which fits perfectly here — propaganda and misinformation are **core tools** in **political warfare**.

Q. 74

In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

The concept of 'fake news' is not a 21st-century invention; propaganda and misinformation have been (1) ____ of political warfare for centuries. However, the advent of social media has (2) ____ the speed and scale of its dissemination to an unprecedented degree. In the past, information was (3) ____ by gatekeepers—editors, publishers, and journalists. The digital age has democratized content creation, but in doing so, it has also dismantled the traditional mechanisms of (4) _____. The ecosystem of the internet, driven by engagement metrics and algorithmic biases, often (5) ____ sensationalism and falsehoods over sober, verified facts, creating echo chambers that polarize society.

What will come in blank (2)?

- a) contracted
- b) accelerated
- c) neutralized
- d) managed

Correct Answer: accelerated

Explanation:

- The sentence: "The advent of social media has (2) ____ the speed and scale of its dissemination to an unprecedented degree."
- The verb "accelerated" means increased the speed of something, which fits perfectly with the context of rapid spread of fake news via social media.

Q. 75

In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

The concept of 'fake news' is not a 21st-century invention; propaganda and misinformation have been (1) ____ of political warfare for centuries. However, the advent of social media has (2) ____ the speed and scale of its dissemination to an unprecedented degree. In the past, information was (3) ____ by gatekeepers—editors, publishers, and journalists. The digital age has democratized content creation, but in doing so, it has also dismantled the traditional mechanisms of (4) _____. The ecosystem of the internet, driven by engagement metrics and algorithmic biases, often (5) ____ sensationalism and falsehoods over sober, verified facts, creating echo chambers that polarize society.

What will come in blank (3)?

- a) amplified
- b) ignored
- c) created
- d) vetted

Correct Answer: vetted

Explanation:

- The sentence: "In the past, information was (3) ____ by gatekeepers—editors, publishers, and journalists."
- The word "vetted" means carefully examined or evaluated, which perfectly fits the role of traditional gatekeepers who filtered and verified information before publication.

Explanation:

Q. 76

In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

The concept of 'fake news' is not a 21st-century invention; propaganda and misinformation have been (1) ____ of political warfare for centuries. However, the advent of social media has (2) ____ the speed and scale of its dissemination to an unprecedented degree. In the past, information was (3) ____ by gatekeepers—editors, publishers, and journalists. The digital age has democratized content creation, but in doing so, it has also dismantled the traditional mechanisms of (4) _____. The ecosystem of the internet, driven by engagement metrics and algorithmic biases, often (5) ____ sensationalism and falsehoods over sober, verified facts, creating echo chambers that polarize society.

What will come in blank (4)?

- a) verification ✓
- b) speculation ✗
- c) globalization ✗
- d) monetization ✗

✓ Correct Answer: verification

Explanation:

- The sentence: "The digital age has democratized content creation, but in doing so, it has also dismantled the traditional mechanisms of (4) _____. "
- The most logical fit is "verification", which refers to the fact-checking and editorial oversight once provided by gatekeepers like editors and journalists.
- The passage contrasts open content creation with the loss of quality control, making verification the most contextually appropriate choice.

Explanation:

Q. 77

In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

The concept of 'fake news' is not a 21st-century invention; propaganda and misinformation have been (1) ____ of political warfare for centuries. However, the advent of social media has (2) ____ the speed and scale of its dissemination to an unprecedented degree. In the past, information was (3) ____ by gatekeepers—editors, publishers, and journalists. The digital age has democratized content creation, but in doing so, it has also dismantled the traditional mechanisms of (4) _____. The ecosystem of the internet, driven by engagement metrics and algorithmic biases, often (5) ____ sensationalism and falsehoods over sober, verified facts, creating echo chambers that polarize society.

What will come in blank (5)?

- a) prevents
- b) prioritizes
- c) scrutinizes
- d) concedes

Correct Answer: prioritizes

Explanation:

- The sentence: "The ecosystem of the internet, driven by engagement metrics and algorithmic biases, often (5) ____ sensationalism and falsehoods over sober, verified facts..."
- The verb "prioritizes" fits perfectly, as it conveys that the internet **favors** or **gives preference to** sensational and misleading content due to its engagement-driven nature.

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| Q. 78 | <p>Select the option that is most nearly opposite in meaning to the given word.</p> <p>TENUOUS</p> <p>a) Slender <input checked="" type="checkbox"/> X</p> <p>b) Delicate <input checked="" type="checkbox"/> X</p> <p>c) Dubious <input checked="" type="checkbox"/> X</p> <p>d) Substantial <input checked="" type="checkbox"/> ✓</p> |
| Explanation: | <p><input checked="" type="checkbox"/> ✓ Correct Answer: Substantial</p> <p><i>Explanation:</i></p> <ul style="list-style-type: none"> • Tenuous means weak, fragile, or lacking strength or substance — often used to describe a weak argument, connection, or grasp. • Its opposite would be something strong, firm, or well-founded — which is exactly what substantial conveys. |
| Q. 79 | <p>Select the option that can be used as a one-word substitute for the given group of words.</p> <p>A person who is skilled in judging art, music, or food.</p> <p>a) Connoisseur <input checked="" type="checkbox"/> ✓</p> <p>b) Hedonist <input checked="" type="checkbox"/> X</p> <p>c) Dilettante <input checked="" type="checkbox"/> X</p> <p>d) Philistine <input checked="" type="checkbox"/> X</p> |
| Explanation: | <p><input checked="" type="checkbox"/> ✓ Correct Answer: Connoisseur</p> <p><i>Explanation:</i></p> <ul style="list-style-type: none"> • A connoisseur is someone with expert knowledge and refined taste, especially in areas like art, music, wine, or food. • The word implies discerning judgment, cultivated appreciation, and deep familiarity with the subject. |

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| Q. 80 | <p>Select the most appropriate meaning of the given idiom. To play fast and loose.</p> <p>a) To deceive someone in a playful manner. <input checked="" type="checkbox"/> X</p> <p>b) To act in a reliable and responsible way. <input checked="" type="checkbox"/> X</p> <p>c) To be very quick and efficient in a game. <input checked="" type="checkbox"/> X</p> <p>d) To be unpredictable and inconsistent. <input checked="" type="checkbox"/> ✓</p> |
| Explanation: | <p><input checked="" type="checkbox"/> Correct Answer: To be unpredictable and inconsistent.</p> <p><i>Explanation:</i></p> <ul style="list-style-type: none"> The idiom "to play fast and loose" refers to someone who behaves in a reckless, unreliable, or inconsistent manner — often changing loyalties or principles to suit their convenience. It implies a lack of commitment or integrity, especially in serious matters. |
| Q. 81 | <p>Select the correctly spelt word.</p> <p>a) Conscientuous <input checked="" type="checkbox"/> X</p> <p>b) Conscientious <input checked="" type="checkbox"/> ✓</p> <p>c) Consciencious <input checked="" type="checkbox"/> X</p> <p>d) Conseintious <input checked="" type="checkbox"/> X</p> |
| Explanation: | <p><input checked="" type="checkbox"/> Correct Answer: Conscientious</p> <p><i>Explanation:</i></p> <ul style="list-style-type: none"> Conscientious means wishing to do one's work or duty well and thoroughly, often associated with carefulness, diligence, and moral integrity. It is the only correctly spelled option among the choices. |

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| Q. 82 | <p>Identify the segment in the sentence which contains a grammatical error.</p> <p>The committee, comprising of / several eminent scholars, / was unable to reach / a consensus on the matter.</p> <p>a) The committee, comprising of ✓</p> <p>b) several eminent scholars ✗</p> <p>c) was unable to reach ✗</p> <p>d) a consensus on the matter. ✗</p> |
| Explanation: | <p>✓ Correct Answer: The committee, comprising of</p> <p>Explanation:</p> <ul style="list-style-type: none"> The verb "comprise" means to consist of or to include, and it is not followed by "of". Correct usage: <ul style="list-style-type: none"> ✓ "The committee, comprising several eminent scholars..." ✗ "The committee, comprising of several eminent scholars..." |
| Q. 83 | <p>Select the most appropriate option to fill in the blank.</p> <p>The new regulations have ____ a great deal of protest from the farming community.</p> <p>a) faded away ✗</p> <p>b) wound up ✗</p> <p>c) toned down ✗</p> <p>d) stirred up ✓</p> <p>✓ Correct Answer: stirred up</p> <p>Explanation:</p> <ul style="list-style-type: none"> The sentence: "The new regulations have ____ a great deal of protest from the farming community." The phrase "stirred up" means to provoke, incite, or arouse strong feelings or reactions — which fits perfectly with protests being triggered by new regulations. |

Q. 84

Select the option that expresses the given sentence in Active Voice.

The complex problem was being meticulously analyzed by the team of experts.

a) The team of experts meticulously analyzed the complex problem. X

b) The team of experts is meticulously analyzing the complex problem. X

c) The team of experts were meticulously analyzing the complex problem. X

d) The team of experts was meticulously analyzing the complex problem. ✓

✓ Correct Answer: The team of experts was meticulously analyzing the complex problem.

Explanation:

- The original sentence is in **Passive Voice** and **Past Continuous Tense**: “*was being meticulously analyzed...*”
- To convert it to **Active Voice**, we retain the same tense and subject-object structure:
 - **Subject (doer):** *The team of experts*
 - **Verb (past continuous):** *was analyzing*
 - **Object (receiver):** *the complex problem*

Explanation:

Q. 85

Select the option that expresses the given sentence in Indirect Speech.

The professor said to the students, "Why have you not completed the assignment?"

a) The professor told the students why they had not completed the assignment.

✗

b) The professor asked the students why they had not completed the assignment.

✓

c) The professor asked the students why they have not completed the assignment.

✗

d) The professor asked the students why had they not completed the assignment.

✗

Correct Answer: The professor asked the students why they had not completed the assignment.

Explanation:

- The original sentence is a **question in present perfect tense**: "*Why have you not completed the assignment?*"
- In **indirect speech**, we:
 - Change the reporting verb "said to" → "asked" (since it's a question).
 - Shift the tense from **present perfect** ("have not completed") to **past perfect** ("had not completed").
 - Maintain the **question word** ("why") but **remove inversion** (no auxiliary before subject).

Explanation:

Q. 86

Select the most appropriate option to fill in the blank.

His long, convoluted explanation only ____ to the confusion rather than clarifying the situation.

- a) subtracted X
- b) added ✓
- c) alluded X
- d) detracted X

✓ Correct Answer: added

Explanation:

- The sentence: "His long, convoluted explanation only ____ to the confusion rather than clarifying the situation."
- The verb "added" fits best, as it conveys that the explanation **increased or intensified** the confusion instead of resolving it.

Explanation:

Q. 87

Select the option that expresses the given sentence in Passive Voice.

Who taught you such advanced ethical principles?

- a) By whom were you taught such advanced ethical principles? ✓
- b) Such advanced ethical principles were taught to you by who? X
- c) By whom was you taught such advanced ethical principles? X
- d) By whom have you been taught such advanced ethical principles? X

✓ Correct Answer: By whom were you taught such advanced ethical principles?

Explanation:

- The original sentence is in **Active Voice** and **Simple Past Tense**: "Who taught you such advanced ethical principles?"
- To convert it to **Passive Voice**, we:
 - Retain the **past tense**: *was/were taught*
 - Use the correct **interrogative structure**: *By whom...*
 - Match the subject-verb agreement: *you* → *were taught*

Explanation:

Q. 88

Select the correctly spelt word.

- a) Convalescence ✓
- b) Convelescence ✗
- c) Convalesence ✗
- d) Convilescence ✗

Explanation:

Correct Answer: Convalescence

Explanation:

- Convalescence refers to the gradual recovery of health and strength after illness or medical treatment.
- It is the only correctly spelled option among the choices.

Q. 89

Select the sentence in which the homonym elude/allude is correctly used.

- a) The criminal managed to allude the police for weeks. ✗
- b) In his speech, he often eluded to his difficult childhood. ✗
- c) The meaning of the poem alludes me, though I know it eludes to classical myths. ✗
- d) The speaker did not mention the scandal directly, but he did allude to it several times. ✓

Explanation:

Correct Answer: The speaker did not mention the scandal directly, but he did allude to it several times.

| | |
|----------|---|
| • Word | • Meaning |
| • Allude | • To refer to something indirectly or casually. |
| • Elude | • To escape from or avoid something, typically in a skillful or clever way. |

Q. 90

Select the option that expresses the given sentence in Passive Voice.

One must adhere to the rules strictly.

a) The rules must be adhered strictly. X

b) The rules must have been adhered to strictly. X

c) Strict adherence to the rules are a must. X

d) The rules must be adhered to strictly. ✓

✓ Correct Answer: The rules must be adhered to strictly.

Explanation:

- The original sentence is in **Active Voice** using a **modal verb** ("must"): "*One must adhere to the rules strictly.*"
- In Passive Voice, the structure becomes: [Object] + **must be** + past participle + (preposition, if needed) + adverb
- Since "adhere" is an intransitive verb that takes the preposition "to", the correct passive construction is: "**The rules must be adhered to strictly.**"

Q. 91

Rearrange the following sentences to form a coherent paragraph.

P- This specialization is the foundation of economic progress, as it allows a society to produce a far greater quantity and variety of goods and services than it otherwise could.

Q- In a modern economy, individuals are not self-sufficient; they do not produce all the goods and services they consume.

R- Instead, they specialize in producing certain things and then trade with others to obtain the rest.

S- However, this complex web of interdependence, facilitated by markets and money, is also a source of vulnerability.

T- A doctor specializes in medicine, a farmer in agriculture, and a teacher in education.

a) QRTSP X

b) QRTPS ✓

c) PQTRS X

d) RSPQT X

✓ Correct Answer: QRTPS

Rearranged Paragraph with Logical Flow:

1. Q – Introduces the context: *In a modern economy, individuals are not self-sufficient...*
2. R – Explains the consequence: *Instead, they specialize and trade...*
3. T – Gives examples of specialization: *Doctor, farmer, teacher...*
4. P – Highlights the benefit: *This specialization is the foundation of economic progress...*
5. S – Adds a cautionary note: *This interdependence is also a source of vulnerability...*

Explanation:

Q. 92

Select the sentence in which the homonym (censor/censure) is correctly used.

- a) The committee decided to censor the senator for his unethical remarks, but the media refused to censure the story. X
- b) The film was heavily censured by the board, which received public censor for its decision. X
- c) The parliamentary committee will censure the minister for his actions, and the press was asked to censor the sensitive details. ✓
- d) He will censure the documents before they are released, fearing public censor. X

Explanation:

| Word | Meaning |
|---------|--|
| Censor | To suppress or remove content considered objectionable or sensitive. |
| Censure | To formally express disapproval, especially in an official or authoritative context. |

Q. 93

One who talks while sleeping is called a?

- a) Somnambulist X
- b) Insomniac X
- c) Somniloquist ✓
- d) Monologist X

✓ Correct Answer: Somniloquist

Explanation:

- A Somniloquist is a person who **talks while asleep** — the act is called **somniloquy**.
- It's a type of **parasomnia**, often harmless and involuntary.

Explanation:

Vocabulary List:

1. **Somnambulist** – A sleepwalker
2. **Insomniac** – One who suffers from insomnia
3. **Monologist** – One who delivers long speeches or monologues

Q. 94

Rearrange the following sentences to form a coherent paragraph.

P- The immediate catalyst for the protest was the new policy, but the underlying discontent had been simmering for years.

Q- Economic stagnation and a perceived erosion of civil liberties had created a tinderbox.

R- When the government announced the 'Digital Identity Act', it was seen as the final straw, an unacceptable overreach of state surveillance.

S- Decades of simmering frustration, therefore, finally found their voice in the mass demonstrations that paralyzed the capital.

T- The new act was merely the spark that lit the fuse.

a) PQRTS X

b) PRQST X

c) QRPTS ✓

d) SQRPT X

✓ Correct Answer: QRPTS

Rearranged Paragraph with Logical Flow:

1. Q – Sets the background: economic stagnation and loss of civil liberties created a volatile situation.
2. R – Introduces the trigger: the announcement of the 'Digital Identity Act'.
3. P – Clarifies that while the act was the immediate cause, deeper issues had been building.
4. T – Uses metaphor to emphasize the act as the spark.
5. S – Concludes with the outcome: mass protests erupting.

This sequence builds from root causes → trigger → clarification → metaphor → consequence, forming a coherent and compelling narrative.

Explanation:

Q. 95

Select the option that improves the underlined part of the sentence. If no improvement is needed, select 'No improvement'.

The committee would have issued a statement if they had been informed of the security lapse in time.

- a) would be issuing a statement X
- b) will have issued a statement X
- c) would have issue a statement X
- d) No improvement ✓

✓ Correct Answer: No improvement

Explanation:

- The sentence uses a **Type III conditional**, which refers to a hypothetical situation in the **past**.
- Structure: If + past perfect, would have + past participle
- ✓ Correct usage: "If they had been informed...", "...would have issued a statement"

Explanation:

Q. 96

Fill in the blanks with the most appropriate pair of words (Homonyms).

The lawyer tried to _____ a confession from the witness, but the judge ruled that any statement given under duress would not be _____.

- a) illicit, elicit X
- b) elicit, illicit ✓
- c) eminent, imminent X
- d) imminent, eminent X

✓ Correct Answer: elicit, illicit

Explanation:

- **Elicit** (verb): To draw out or bring forth (a response, confession, reaction). → "*The lawyer tried to elicit a confession...*"
- **Illicit** (adjective): Not legally permitted; forbidden by law or custom. → "...any statement given under duress would not be **illicit**." Here, "**illicit**" refers to the **unlawful nature** of the confession.

Explanation:

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| Q. 97 | <p>Change the speech (Direct/Indirect).</p> <p>The old man exclaimed, "What a treacherous path this is! I almost fell."</p> <p>a) The old man exclaimed that the path was very treacherous and that he had almost fallen. ✓</p> <p>b) The old man asked what a treacherous path that was and said he almost fell. ✗</p> <p>c) The old man exclaimed that what a treacherous path that was and I almost fell. ✗</p> <p>d) The old man said that the path is treacherous and he had almost fallen. ✗</p> |
| Explanation: | <p>✓ Correct Answer: The old man exclaimed that the path was very treacherous and that he had almost fallen.</p> <p>Explanation:</p> <p>This is a direct-to-indirect speech transformation involving:</p> <ul style="list-style-type: none"> • Exclamatory sentence → converted using “exclaimed that...” • Interjection (“What a...”) → rephrased as “very...” • Tense shift: <ul style="list-style-type: none"> ◦ “This is” → “the path was” ◦ “I almost fell” → “he had almost fallen” |
| Q. 98 | <p>Change the voice (Active/Passive).</p> <p>By whom was this intricate and beautiful tapestry woven?</p> <p>a) Who was weaving this intricate and beautiful tapestry? ✗</p> <p>b) Who wove this intricate and beautiful tapestry? ✓</p> <p>c) Who has woven this intricate and beautiful tapestry? ✗</p> <p>d) Who weaves this intricate and beautiful tapestry? ✗</p> |
| Explanation: | <p>✓ Correct Answer: Who wove this intricate and beautiful tapestry?</p> <p>Voice Transformation:</p> <ul style="list-style-type: none"> • Given Sentence (Passive Voice): <i>By whom was this intricate and beautiful tapestry woven?</i> • Active Voice Equivalent: <i>Who wove this intricate and beautiful tapestry?</i> |

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| <p>Q. 99</p> <p>Change the speech (Direct/Indirect).</p> <p>The analyst asked his client if he would be willing to diversify his portfolio to mitigate risk.</p> <p>a) The analyst said to his client, "Were you willing to diversify your portfolio to mitigate risk?" X</p> <p>b) The analyst said to his client, "You should be willing to diversify your portfolio to mitigate risk." X</p> <p>c) The analyst asked his client, "Will you be willing to diversify your portfolio to mitigate risk?" ✓</p> <p>d) The analyst said to his client, "Diversify your portfolio to mitigate risk!" X</p> |
| <p>Explanation:</p> <p>Direct Speech Answer:</p> <p>The analyst said to his client, "Will you be willing to diversify your portfolio to mitigate risk?" ✓</p> |

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| <p>Q. 100</p> <p>Find the part of the given sentence that has an error in it. If there is no error, choose 'No error'.</p> <p>Had the archaeological team / knew about the fragility of the manuscript, / they would have used a different excavation technique. / No error</p> <p>a) Had the archaeological team X</p> <p>b) knew about the fragility of the manuscript, ✓</p> <p>c) they would have used a different excavation technique. X</p> <p>d) No error X</p> |
| <p>✓ Correct Answer: "knew about the fragility of the manuscript,"</p> <p>Explanation:</p> <ul style="list-style-type: none"> • The sentence begins with "Had the archaeological team...", which is an inverted conditional structure (Type III conditional). • In such cases, the correct form is: "Had + subject + past participle", not simple past. |

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| Q. 101 | <p>A state or country run by the worst, least qualified, or most unscrupulous citizens is called?</p> <p>a) Kakistocracy ✓</p> <p>b) Gerontocracy ✗</p> <p>c) Ochlocracy ✗</p> <p>d) Bureaucracy ✗</p> |
| Explanation: | <p> Correct Answer: Kakistocracy</p> <p>Explanation:</p> <ul style="list-style-type: none"> • Kakistocracy comes from the Greek <i>kakistos</i> (worst) + <i>kratos</i> (rule), meaning government by the worst, least qualified, or most unscrupulous citizens. • It's often used critically to describe regimes plagued by corruption, incompetence, or moral bankruptcy. |
| Q. 102 | <p>Select the most appropriate meaning of the given idiom. To sail close to the wind.</p> <p>a) To be in a very dangerous situation. ✗</p> <p>b) To be in a very comfortable and advantageous position. ✗</p> <p>c) To act in a way that is just within the limits of what is legal or acceptable. ✓</p> <p>d) To finish a task with the bare minimum of effort. ✗</p> |
| Explanation: | <p> Correct Answer: To act in a way that is just within the limits of what is legal or acceptable.</p> <p> Explanation:</p> <ul style="list-style-type: none"> • The idiom "to sail close to the wind" originates from nautical terminology, where a ship sails near the direction of the wind — a risky maneuver. • Figuratively, it means behaving in a way that is risky, borderline unethical, or just within legal limits. • Often used to describe actions that test boundaries without technically breaking rules. |

Q. 103

Select the option that is most opposite in meaning to the given word.

CHIMERICAL

a) Realistic ✓

b) Fantastic ✗

c) Whimsical ✗

d) Deplorable ✗

Explanation:

✓ Correct Answer: Realistic

Explanation:

- Chimerical means **highly imaginative, wildly fanciful, or unrealistic** — often used to describe ideas or plans that are **impossible or illusory**.
- Therefore, the **antonym** is **Realistic**, which refers to something **practical, grounded, and achievable**.

Q. 104

Select the option that is closest in meaning to the given word.

EXECRABLE

a) Laudable ✗

b) Abominable ✓

c) Desirable ✗

d) Manageable ✗

Explanation:

✓ Correct Answer: Abominable

Explanation:

- Execrable means **extremely bad, detestable, or utterly unpleasant** — often used to describe something morally offensive or of very poor quality.
- **Abominable** is the closest synonym, meaning **horrible, repugnant, or loathsome** — matching both tone and intensity.

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| Q. 105 | <p>Select the most appropriate meaning of the given idiom.</p> <p>A Hobson's choice</p> <p>a) A situation with multiple profitable options. X</p> <p>b) An apparently free choice when there is no real alternative. ✓</p> <p>c) A difficult decision between two equally bad options. X</p> <p>d) To choose the easiest path in a situation. X</p> |
| Explanation: | <p>✓ Correct Answer: An apparently free choice when there is no real alternative.</p> <p><i>Explanation:</i></p> <ul style="list-style-type: none"> • "A Hobson's choice" refers to a situation where only one option is actually available, even though it may appear that a choice is being offered. • Origin: Named after Thomas Hobson, a stable owner who offered customers the choice of either taking the horse nearest the door or none at all — hence, no real choice. |

Q. 106

The border between India and Bhutan adjoins _____ Indian States.

1. Arunachal Pradesh

2. Assam

3. West Bengal

4. Meghalaya

5. Sikkim

a) Only 1, 2 and 4



b) Only 1, 2, 3 and 5



c) All of these



d) Only 2, 3 and 4



The four Indian states that share a border with Bhutan are:

- Sikkim
- West Bengal
- Assam
- Arunachal Pradesh

The total length of the India-Bhutan border is approximately **699 km**.

Meghalaya does **not** share a border with Bhutan. It is located to the south of Assam and shares its border with Bangladesh to the south and west.

Explanation:



| | |
|---------------------|---|
| Q. 107 | <p>As per Census 2011, what is the percentage of India's population to the world population?</p> <p>a) 16-18% ✓</p> <p>b) 10-12% ✗</p> <p>c) 12-14% ✗</p> <p>d) 11-15% ✗</p> |
| Explanation: | <p>Based on the 2011 Census, India's population constituted approximately 17.5% of the world's population. Therefore, the correct range is 16-18%.</p> <p>Detailed Explanation</p> <p>The 2011 Census of India reported a total population of 1.21 billion. At that time, the world's population was estimated to be around 6.9 billion.</p> <p>The percentage is calculated as:</p> $\text{India's Population} / \text{World Population} \times 100\%$ $1.21 \text{ billion} / 6.9 \text{ billion} \times 100\% = \approx 17.5\%$ <p>This highlights India's significant demographic size on a global scale.</p> |
| Q. 108 | <p>Which of the following is the correct description of the place called "Naubat Khana" during the Mughal Period?</p> <p>a) Private Treasury of royal women ✗</p> <p>b) Office of the security-in-charge of the palace ✗</p> <p>c) House for private discussions ✗</p> <p>d) Drum House ✓</p> <p>Explanation:</p> <p>The correct description of a Naubat Khana during the Mughal period is a Drum House.</p> <ul style="list-style-type: none"> • Naubat Khana, also known as Naqqar Khana, literally translates to "drum-house." • These structures were a distinct feature of Mughal architecture, often located at the entrance of palaces and forts, like the Red Fort in Delhi. • Musicians would play drums, trumpets, and other instruments here at scheduled times to announce the emperor's arrival, mark significant events, or signal the beginning and end of the day.= |

Q. 109

Which of the following statements is NOT true about the two-sector model?

1. There is no foreign sector.
 2. The economy is considered to be closed.
 3. Firms are the only producing sector in the economy.
 4. The government sector plays an important role.
- a) Only statement 2
- b) Only statement 1, 2 and 4
- c) Only statement 1, 2 and 3
- d) Only statement 4

The statement that is NOT true about the two-sector model is: **The government sector plays an important role.**

Explanation of the Two-Sector Model

The two-sector model is a basic macroeconomic model used to illustrate the circular flow of income between two key sectors: **households** and **firms**. It operates on several key assumptions:

- **No Government:** It assumes a complete absence of the government sector. This means there are no taxes, government spending, or subsidies in the model.
- **No Foreign Sector:** The model assumes a **closed economy**, meaning there is no foreign trade (imports or exports).
- **No Savings:** It assumes that households spend their entire income on the goods and services produced by firms, and firms, in turn, pay all their revenue to households as factor payments (wages, rent, etc.). There are no savings or investments.

Therefore, the statement that the government sector plays an important role is incorrect because the two-sector model explicitly **ignores** the government's role to simplify the analysis of economic flows.

Q. 110

Which of the following is NOT 'The Great Lakes' of North America?

A. Superior

B. Huron

C. Victoria

D. Erie

a) A, C, and D only

b) A and B only

c) C Only

d) C and D only

Correct Answer: C Only

Explanation:

The Great Lakes of North America include:

- Lake Superior
- Lake Huron
- Lake Michigan
- Lake Erie
- Lake Ontario

Explanation:

Let's evaluate the options:

- A. Superior – Part of the Great Lakes
 - B. Huron – Part of the Great Lakes
 - C. Victoria – Not part of the Great Lakes
 - Lake Victoria is located in Africa, bordered by Tanzania, Uganda, and Kenya.
 - D. Erie – Part of the Great Lakes
- ♦ Conclusion: Only Lake Victoria (C) is not one of the Great Lakes of North America.

Q. 111

In which of the following ways of heat transfer no medium is required?

1. Radiation and Conduction both

2. Conduction

3. Convection

4. Radiation

a) Only 4 ✓

b) Only 1 ✗

c) Only 1 and 2 ✗

d) Only 1 and 4 ✗

The correct answer is **Radiation**.

Radiation is a method of heat transfer that does not require a medium.

The Three Modes of Heat Transfer

- **Conduction:** This is the transfer of heat through direct contact between molecules. It primarily occurs in **solids** where particles are closely packed. The heat is passed from one vibrating molecule to the next, similar to a chain reaction. Conduction requires a physical medium to occur. For example, when you touch a hot stove burner, heat is transferred to your hand by conduction.
- **Convection:** This is the transfer of heat through the movement of a fluid (a liquid or a gas). When a fluid is heated, the warmer, less-dense molecules rise, while the cooler, denser molecules sink. This creates a circulating current that transfers heat throughout the fluid. Convection, therefore, requires a fluid medium. An example is the boiling of water in a pot.
- **Radiation:** This is the transfer of heat through **electromagnetic waves**. These waves can travel through a vacuum or empty space, meaning they do not need a medium to transfer energy. This is how the sun's heat reaches Earth, traveling through the vacuum of space. The energy is absorbed by an object and converted into heat.

Explanation:

Q. 112

Which of the following statement is correct about Global Terrorism Index 2025?

1. India's rank is 14th in this index.
 2. Burkina Faso ranked first followed by Pakistan, Syria and Mali.
 3. This index is issued by Institute for economics and peace.
- a) Only 1 & 2
- b) All of these
- c) Only 2 & 3
- d) Only 1 & 3

Statements 1, 2, and 3 are correct.

Key Details

- The **Global Terrorism Index (GTI) 2025** is an annual report by the **Institute for Economics & Peace (IEP)**.
- **Burkina Faso** is ranked first, followed by **Pakistan, Syria, and Mali**.
- **India** is ranked **14th**.

Extra Information:

- The GTI ranks **163 countries** based on the impact of terrorism, covering **99.7% of the world's population**.
- The index uses a composite score based on four main indicators:
 1. The number of **terrorist incidents** in a year.
 2. The number of **fatalities** caused by terrorism.
 3. The number of **injuries** caused by terrorism.
 4. The level of **property damage**.
- The report highlights that **Islamic State (IS)** remains the deadliest terrorist organization globally.

The **Sahel region** of Africa continues to be the epicenter of global terrorism, accounting for over half of all terrorism deaths.

Explanation:

Q. 113

Consider the following statements:

1. India is a net exporter of iron ores.
 2. The Khetri Copper Belt in Rajasthan is a significant copper-producing region in India.
 3. The majority of India's petroleum production comes from the offshore fields in the Bay of Bengal.
 4. The Zawar mines in Rajasthan are famous for their zinc and lead reserves.
- Which of the statements above is/are CORRECT?
- a) 1, 2 and 4 only ✓
 - b) 1, 2 and 3 only ✗
 - c) 2, 3 and 4 only ✗
 - d) All of these ✗

Statements 1, 2, and 4 are correct.

Statement 1: India is a net exporter of iron ores.

- **Correct.** While India's exports have decreased due to rising domestic demand for steel, it remains a **net exporter of iron ore**.

Statement 2: The Khetri Copper Belt in Rajasthan is a significant copper-producing region in India.

- **Correct.** The **Khetri Copper Belt** is one of India's most important copper-producing regions, located in Rajasthan.

Explanation:

Statement 3: The majority of India's petroleum production comes from the offshore fields in the Bay of Bengal.

- **Incorrect.** The majority of India's offshore petroleum production comes from the **Arabian Sea**, primarily the **Mumbai High oilfield**, which is located off the coast of Mumbai.

Statement 4: The Zawar mines in Rajasthan are famous for their zinc and lead reserves.

- **Correct.** The **Zawar mines** in Rajasthan are historically and currently famous for their significant deposits of **zinc and lead**.

Q. 114

Which of the following statements about the Union Public Service Commission (UPSC) are CORRECT?

1. The Indian Parliament holds the authority to frame rules concerning the service conditions of the UPSC's Chairman, its members, and staff.
 2. Under the Government of India Act of 1935, a Public Service Commission was proposed for the central government (Federation) and separate Provincial Commissions for individual provinces or groups of provinces.
 3. As per Clause (1) of Article 378 of the Indian Constitution, the Federal Public Service Commission was renamed the Union Public Service Commission in 1950.
- a) 1 and 2 only
- b) 2 only
- c) All of these
- d) 2 and 3 only

The correct answer is: **Statements 2 and 3 only**

Here's the detailed explanation:

- **Statement 1 – Incorrect**

The **President of India**, not the Parliament, determines the conditions of service for the Chairman and members of the UPSC under **Article 318** of the Constitution. Parliament does not have the direct power to regulate these service conditions.

- **Statement 2 – Correct**

The **Government of India Act, 1935** indeed provided for the establishment of a **Federal Public Service Commission** for the central government and **Provincial Public Service Commissions** for individual provinces or groups of provinces.

- **Statement 3 – Correct**

According to **Clause (1) of Article 378** of the Indian Constitution, the **Federal Public Service Commission** was renamed the **Union Public Service Commission (UPSC)** after the Constitution came into effect in 1950.

Explanation:

Q. 115

Match the animals in column A with the phylum they belong to in column B.

Column A

- i. Jelly fish
- ii. Cray fish
- iii. Whale fish
- iv. Devil fish

Column B

- a. Mollusca
- b. Mammal
- c. Arthropoda
- d. Coelenterate

a) i-d, ii-a, iii-b, iv-c



b) i-d, ii-c, iii-a, iv-b



c) i-d, ii-c, iii-b, iv-a



d) i-a, ii-d, iii-b, iv-c



Correct Answer: A. i-d, ii-c, iii-b, iv-a

Explanation:

- i. **Jelly fish** → **Coelenterate (d)**:

Jellyfish belong to the phylum **Cnidaria**, also known as Coelenterata. They are aquatic and have radial symmetry.

- ii. **Cray fish** → **Arthropoda (c)**:

Crayfish are crustaceans and belong to the phylum **Arthropoda**, characterized by jointed limbs and exoskeletons.

- iii. **Whale fish** → **Mammal (b)**:

Whales are warm-blooded, give birth to live young, and nurse them — all traits of **mammals**.

- iv. **Devil fish** → **Mollusca (a)**:

Devil fish refers to **octopus**, which belongs to the phylum **Mollusca**, known for soft bodies and often tentacles.

Explanation:

Q. 116

According to the given statements identify the correct person.

1. He was an ardent supporter of the Brahmo Samaj.
2. Ran the journal 'New India' and was called 'Father of Revolutionary Thoughts' in India.
3. Visited England on a Unitarian scholarship but returned with new vigor for nationalist work.
4. Part of the Lal-Bal-Pal extremist trio from Bengal.

- a) Lala Lajpat Rai X
- b) Bipin Chandra Pal ✓
- c) Bal Gangadhar Tilak X
- d) Chittaranjan Das X

The correct person is **Bipin Chandra Pal**.

Here's why each statement points to him:

- 1. Ardent supporter of the Brahmo Samaj:** Bipin Chandra Pal was deeply involved with the **Brahmo Samaj** movement, especially under the influence of Keshab Chandra Sen and Sivanath Sastri.
- 2. Ran the journal 'New India' and was called 'Father of Revolutionary Thoughts' in India:** He founded the weekly journal '**New India**' in 1901. He is widely considered the "**Father of Revolutionary Thoughts**" for his radical ideas and strong advocacy for Swaraj.
- 3. Visited England on a Unitarian scholarship but returned with new vigor for nationalist work:** He traveled to England in 1898 on a scholarship to study theology but returned two years later, more committed than ever to the Indian freedom struggle.
- 4. Part of the Lal-Bal-Pal extremist trio from Bengal:** He was indeed the 'Pal' in the famous 'Lal-Bal-Pal' trio of extremists, alongside **Lala Lajpat Rai** and **Bal Gangadhar Tilak**, who were key figures in the early 20th-century nationalist movement.

Explanation:

Q. 117

Events of Khelo India Youth Games 2025 were NOT conducted in which of the following cities of Bihar?

- a) Samstipur ✓
- b) Gaya ✗
- c) Bhagalpur ✗
- d) Rajgir ✗

Explanation:

The Khelo India Youth Games 2025 were not conducted in **Samastipur**.

Key Details of Khelo India Youth Games 2025

- **Host State:** Bihar (first time)
- **Cities:** The events were held in five cities of Bihar: **Patna, Rajgir, Gaya, Bhagalpur, and Begusarai**.
- **Events in Delhi:** Sports like **shooting, gymnastics, and track cycling** were held in **New Delhi** due to the lack of suitable infrastructure in Bihar.
- **Mascot:** The official mascot was **Gajasimha**, a mythical creature that is a combination of an elephant and a lion. The design was inspired by the Pala dynasty's heritage found in the temples of Nalanda and Bodh Gaya.
- **Winner:** **Maharashtra** topped the medal tally with a total of **158 medals** (58 Gold, 47 Silver, and 53 Bronze). This was their third consecutive victory.
- **Runner-up:** **Haryana** secured the second position with **117 medals** (39 Gold, 27 Silver, and 51 Bronze).

Games: The games featured **27 sports** disciplines, including indigenous games like **Gatka, Kalaripayattu, Thang-ta, and Yogasana**. **Sepak Takraw** was also included for the first time.

Q. 118

Which of the following was NOT a reform or initiative of Alauddin Khilji?

1. Control on market prices of essential goods
 2. Abolition of hereditary jagirs
 3. Reorganization of the postal department
 4. Recruitment of a permanent standing army
- a) 1 and 4 only X
- b) 2 and 3 only X
- c) 3 only ✓
- d) 2 only X

Explanation:

The initiative that was NOT a reform or initiative of Alauddin Khilji is the **reorganization of the postal department**. This is because while he did have an efficient intelligence system, the comprehensive reorganization of the postal system is more famously associated with **Sher Shah Suri**.

Here is a brief overview of the other reforms listed:

- **Control on market prices of essential goods:** Alauddin Khilji is well-known for his strict **market control policies**. He fixed the prices of various goods, including grains, cloth, horses, and even slaves. This was primarily done to ensure his large standing army could live on their low salaries.
- **Abolition of hereditary jagirs:** Alauddin Khilji took measures to centralize the administration and increase state revenue. He confiscated land grants and **abolished hereditary jagirs** and pensions to weaken the power of the nobles and fill the state treasury.
- **Recruitment of a permanent standing army:** Alauddin Khilji was the **first Sultan of Delhi** to maintain a large, **permanent standing army** paid for in cash from the central treasury. He introduced the system of '**Dagh**' (branding of horses) and '**Huliya**' (descriptive roll of soldiers) to prevent corruption and ensure the efficiency of his military.

Q. 119

Who was the first Defence Minister of India?

- a) Sardar Vallabhbhai Patel X
- b) Baldev Singh ✓
- c) Krishna Menon X
- d) Rajagopalachari X

Explanation:

Baldev Singh served as India's first Defence Minister from 15 August 1947 to 13 May 1952, under Prime Minister Jawaharlal Nehru.

- He played a crucial role during the early years of India's independence, including the **1947–48 war with Pakistan** over Jammu & Kashmir.

Q. 120

According to Article 75 of Indian Constitution, the ministers are collectively responsible to the Parliament in general and to the _____ in particular.

- a) Lok Sabha ✓
- b) Rajya Sabha ✗
- c) President ✗
- d) Prime Minister ✗

Explanation:

According to Article 75 of the Indian Constitution, the Council of Ministers is collectively responsible to the **Lok Sabha**. This is a foundational principle of the parliamentary system of government in India.

Collective Responsibility Principle:

The concept of collective responsibility, as enshrined in **Article 75(3)**, means that the entire Council of Ministers is accountable to the **Lok Sabha**, also known as the House of the People. This principle has two main implications:

- **Joint Responsibility:** All ministers are jointly responsible for the decisions and policies of the government, even if they had a dissenting opinion during private cabinet discussions. They must publicly support the government's stance. If a no-confidence motion is passed against the Council of Ministers in the Lok Sabha, the entire ministry, including ministers from the Rajya Sabha, must resign.
- **Confidence of the Lok Sabha:** The government remains in power only as long as it enjoys the confidence of the majority of the members in the Lok Sabha.

Other Options:

- The **President** appoints ministers, but they are not responsible to the President.
- The **Prime Minister** leads the Council, but collective responsibility is not directed toward the PM.
- The **Rajya Sabha** is the upper house, but the Council is not collectively responsible to it.

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| Q. 121 | <p>Who achieved fame for the Pandanallur school of Bharatanatyam?</p> <p>a) Rukmini Devi Arundale X</p> <p>b) Yamini Krishnamurthy X</p> <p>c) T. Balasaraswati X</p> <p>d) Meenakshi Pillai ✓</p> |
| <p>Explanation:</p> | <p>Correct Answer: Meenakshi Pillai</p> <ul style="list-style-type: none"> The Pandanallur school of Bharatanatyam is one of the most respected styles of this classical dance form, known for its emphasis on geometric precision, linear movements, and expressive abhinaya. Meenakshi Pillai is credited with achieving fame for this style, carrying forward the legacy of Meenakshisundaram Pillai, the prominent founder of the Pandanallur tradition. The other options, while legendary dancers, are associated with different styles: <ul style="list-style-type: none"> Rukmini Devi Arundale – Kalakshetra style Yamini Krishnamurthy – Known for Kuchipudi and Bharatanatyam T. Balasaraswati – Devadasi tradition and expressive abhinaya |
| <p>Explanation:</p> | <p>Q. 122 Which among the following nations is hosting the 13th edition of 2025 ICC Women's ODI World Cup 2025?</p> <p>a) India & Sri Lanka ✓</p> <p>b) India & Bangladesh X</p> <p>c) Bangladesh & Sri Lanka X</p> <p>d) Pakistan & Afghanistan X</p> <p>The 13th edition of the 2025 ICC Women's ODI World Cup is being jointly hosted by two nations in a hybrid model.</p> <p>The host nations are:</p> <ul style="list-style-type: none"> India Sri Lanka <p>Key Details:</p> <ul style="list-style-type: none"> This is a jointly hosted tournament. The majority of the matches are being played in India (at venues like Navi Mumbai, Guwahati, Visakhapatnam, and Indore). Matches are also being held in Sri Lanka (in Colombo). |

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| Q. 123 | <p>49th Parallel is the boundary line between which two countries?</p> <p>a) Russia and China <input checked="" type="checkbox"/> X</p> <p>b) USA and Canada <input checked="" type="checkbox"/> ✓</p> <p>c) France and Germany <input checked="" type="checkbox"/> X</p> <p>d) North Korea and South Korea <input checked="" type="checkbox"/> X</p> |
| Explanation: | <p>The 49th Parallel is a latitude line that serves as a major portion of the international boundary between the United States and Canada, especially between the U.S. states of Washington, North Dakota, and Minnesota and the Canadian provinces of British Columbia, Alberta, Saskatchewan, and Manitoba. This boundary was formalized in the Treaty of Oregon (1846) between the U.S. and Britain.</p> |
| Q. 124 | <p>Who is credited with postulating three laws of planetary motion?</p> <p>a) Issac Newton <input checked="" type="checkbox"/> X</p> <p>b) Henry Cavendish <input checked="" type="checkbox"/> X</p> <p>c) Galileo Galilei <input checked="" type="checkbox"/> X</p> <p>d) Johannes Kepler <input checked="" type="checkbox"/> ✓</p> |
| Explanation: | <p>The German astronomer and mathematician Johannes Kepler is credited with postulating the three laws of planetary motion. He formulated these laws in the early 17th century based on the precise astronomical observations of his mentor, Tycho Brahe.</p> <p>Kepler's Three Laws of Planetary Motion</p> <ol style="list-style-type: none"> 1. The Law of Orbits: Every planet's orbit around the Sun is an ellipse, with the Sun located at one of the two foci. This was a revolutionary idea at the time, as it challenged the long-held belief that planetary orbits were perfect circles. 2. The Law of Equal Areas: An imaginary line connecting a planet to the Sun sweeps out equal areas in equal intervals of time. This means that a planet moves faster when it is closer to the Sun and slower when it is farther away. 3. The Law of Periods (or Harmonies): The square of a planet's orbital period is directly proportional to the cube of the semimajor axis of its orbit. This law provides a mathematical relationship that compares the orbital characteristics of different planets. |

Q. 125

In the given expression of GDP according to the expenditure method, which represent the aggregate imports expenditure incurred by the economy?

$$C + I + G + X - M$$

a) M



b) X



c) G



d) I



Explanation:

In the expenditure method of calculating **Gross Domestic Product (GDP)**, the formula is:

$$GDP = C + I + G + X - M, \text{ where:}$$

- **C** = Private Final Consumption Expenditure
- **I** = Investment (Gross Capital Formation)
- **G** = Government Final Consumption Expenditure
- **X** = Exports of Goods and Services
- **M** = Imports of Goods and Services

The '**M**' term is **subtracted** because imports are not produced domestically and hence must be excluded from the GDP calculation. It represents the **aggregate import expenditure** incurred by the economy.

Q. 126

Which of the following is an example of sublimation?

I. Dry Ice

II. Camphor

III. Ice

a) I and III only



b) I and II only



c) All of these



d) Only II and III



Correct Answer: I and II only — Dry Ice and Camphor

- ♦ **Sublimation** is the process by which a substance transitions directly from the **solid state to the gaseous state** without passing through the liquid phase.

Let's evaluate each option:

- I. Dry Ice (Solid CO₂) — **Correct**
 - Dry ice sublimates directly into carbon dioxide gas at atmospheric pressure.
 - It's widely used in refrigeration and stage effects due to this property.
- II. Camphor — **Correct**
 - Camphor slowly vaporizes at room temperature, skipping the liquid phase.
 - This makes it a classic example of sublimation in household and lab settings.
- III. Ice — **Incorrect**
 - Ice melts into water before evaporating.
 - It does not bypass the liquid phase under normal conditions, so it's **not** an example of sublimation.

♦ **Conclusion:**

Only Dry Ice and Camphor undergo sublimation. Ice does not.

Explanation:

Q. 127

The amount of work done in moving a charge of 4C across two points having a potential difference of 6V is _____.

- a) 24 J ✓
- b) 2 J ✗
- c) 10 J ✗
- d) 16 J ✗

The amount of work done is 24 Joules.

To calculate the work done in moving a charge, you can use the formula:

$$\text{Work Done (W)} = \text{Charge (Q)} \times \text{Potential Difference (V)}$$

Given:

Explanation:

- Charge (Q) = 4C
- Potential Difference (V) = 6V

Calculation:

$$W=4C \times 6V$$

$$W=24J$$

Q. 128

How many crore rupees have been provisioned for 'Deep Ocean Mission' in the Union Budget 2025-26?

- a) 300 crores
- b) 400 crores
- c) 500 crores
- d) 600 crores

Explanation:

- The amount provisioned for the **Deep Ocean Mission** (specifically for the **Samudrayaan project** under the mission) in the Union Budget 2025-26 is **600 crores**.
- Key Details:**
- **Allocation:** The Union Budget 2025-26 allocated **₹600 crore** to the **Samudrayaan project**, which is a flagship component of the Deep Ocean Mission (DOM).
 - **Mission Goal:** The primary objective is to develop a self-propelled, **manned submersible**, called **MATSYA 6000**, to carry three people to a depth of **6,000 meters** to explore deep-sea resources and conduct research.
 - **Nodal Ministry:** The mission is steered by the **Ministry of Earth Sciences (MoES)**.

Wider Context: The overall budget for the Ministry of Earth Sciences (MoES) was allocated approximately **₹3,650 crore** in the Union Budget 2025-26.

Q. 129

Valency of an element depends on which of the following?

- I. Number of losing electron
 - II. Number of gaining electron
 - III. Number of sharing electron
- a) Only II and III X
- b) Only I and III X
- c) All of these ✓
- d) Only I and II X

Correct Answer: All three — I, II, and III

Here's the detailed explanation:

- ◆ Valency refers to the combining capacity of an element — essentially, how many electrons an atom can lose, gain, or share to achieve a stable electronic configuration, typically that of a noble gas.

Let's break down each option:

Explanation:

- I. Number of losing electron – Correct
 - Metals like sodium (Na) and magnesium (Mg) lose electrons to form positive ions.
 - Example: Sodium loses 1 electron → Valency = 1
- II. Number of gaining electron – Correct
 - Non-metals like chlorine (Cl) and oxygen (O) gain electrons to form negative ions.
 - Example: Chlorine gains 1 electron → Valency = 1
- III. Number of sharing electron – Correct
 - Covalent compounds involve sharing of electrons.
 - Example: Carbon shares 4 electrons in methane (CH_4) → Valency = 4

Q. 130

1. A demand draft (DD) is a negotiable instrument issued by a bank directing another bank or its branch to pay a certain sum of money to a specified person.
2. Unlike a cheque, a demand draft cannot bounce due to insufficient funds since it is prepaid.
3. A demand draft can be issued only to account holders of the bank.

Which of the statements given above is/are correct?

- a) Only 1 and 3 X
- b) All of these X
- c) Only 1 and 2 ✓
- d) Only 2 and 3 X

Explanation:

- Statement 1 – Correct:

A Demand Draft (DD) is indeed a **negotiable instrument** issued by a bank instructing another bank or its branch to pay a specified amount to a named person. It is commonly used for secure, non-cash transactions.

- Statement 2 – Correct:

Unlike cheques, DDs are **prepaid instruments**, meaning the bank collects the amount from the drawer before issuing the draft. Hence, they **cannot bounce** due to insufficient funds.

- Statement 3 – Incorrect:

A demand draft **can be issued to non-account holders** as well. Anyone can request a DD by paying the required amount in cash or through other means, subject to RBI and bank norms.