







RBE SSC CGL Tier-2 Live Mock October 05,2025

Q. 1	<p>A glass jar contains 7 white, 9 black, 5 red and 11 blue marbles. If a single marble is chosen at random from the jar, what is the probability that it is black or red?</p> <p>a) $9/32$ </p> <p>b) $5/32$ </p> <p>c) $7/8$ </p> <p>d) $7/16$ </p>
Explanation:	<p>The correct answer is: d</p> <p>Probability of black ball = $P(\text{black}) = \frac{9}{32}$</p> <p>Probability of red ball = $P(\text{red}) = \frac{5}{32}$</p> <p>Probability of black or red ball = $\frac{9}{32} + \frac{5}{32} = \frac{14}{32} = \frac{7}{16}$</p>

Q. 2

Find the mode for the given distribution (rounded off to two decimal places).

Class Interval	Frequency
5 - 10	7
10 - 15	9
15 - 20	8
20 - 25	6
25 - 30	13
30 - 35	11

a) 27.18 b) 26.22 c) 28.88 d) 24.32 **Explanation:**

The correct answer is: c

$$\text{Mode} = L + \left(\frac{f_1 - f_0}{2f_1 - f_0 - f_2} \right) \times h$$

Modal class = class with highest frequency = 25-30

L = lower limit of modal class = 25

f₁ = frequency of modal class = 13f₀ = frequency of the class before modal class = 6f₂ = frequency of the class after the modal class = 11

h = class size = 5

$$\text{Mode} = 25 + \left(\frac{13-6}{2 \times 13 - 6 - 11} \right) \times 5$$

$$= 25 + \frac{7}{9} \times 5 = 25 + 3.88 = 28.88$$


Q. 3

The product of the two numbers is 2400 and their HCF is 10. The number of such possible pairs is/are:

a) 0 

b) 1 

c) 3 

d) 2 

Explanation:

The correct answer is: d

We know that,

$$N_1 = ah ; N_2 = bh$$

a & b are co-primes. H is the HCF

$N_1 * N_2$ Product of two number

$$a*b*h*h = 2400$$

$$\therefore ab = 24$$

a,b pairs = (1,24); (3,8)

Pairs are (10,240) and (80,30)

Q. 4

ABCDEF is a regular hexagon. Side of the hexagon is 48 cm. What is the area of the triangle ABC?

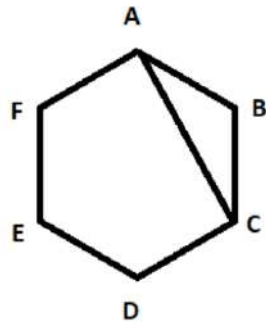
a) $676\sqrt{3}$ ❌

b) $576\sqrt{3}$ ✅

c) 676 ❌

d) 576 ❌

The correct answer is: b



Explanation:

Side of hexagon = 48 cm

Each interior angle of hexagon = $120^\circ = \angle ABC$

Therefore,

$$\text{Area of } \triangle ABC = \frac{1}{2} \times \sin 120^\circ \times AB \times BC$$

$$= \frac{1}{2} \times \frac{\sqrt{3}}{2} \times 48 \times 48 = 576\sqrt{3} \text{ cm}^2$$


Q. 5

If $\frac{22\sqrt{2}}{4\sqrt{2}-\sqrt{3+\sqrt{5}}} = a + \sqrt{5}b$, where $a, b > 0$ then what is the value of $(ab):(a+b)$?

a) 8 : 7 

b) 6 : 7 

c) 7 : 6 

d) 7 : 8 

The correct answer is: d

$$\frac{22\sqrt{2}}{4\sqrt{2}-\sqrt{3+\sqrt{5}}} = a + \sqrt{5}b$$

On multiplying and dividing by 2 in $\sqrt{3+\sqrt{5}}$

$$= \frac{22\sqrt{2}}{4\sqrt{2}-\sqrt{\frac{2(3+\sqrt{5})}{2}}}$$

$$= \frac{22\sqrt{2}}{4\sqrt{2}-\sqrt{\frac{6+2\sqrt{5}}{2}}} \quad [(a+b)^2 = a^2 + b^2 + 2ab]$$

Explanation:

$$= \frac{22\sqrt{2}}{4\sqrt{2}-\frac{\sqrt{5+1}}{\sqrt{2}}} = \frac{22\sqrt{2} \times \sqrt{2}}{8-\sqrt{5}-1}$$

$$= \frac{44}{7-\sqrt{5}} \quad (\text{on rationalising we get})$$

$$= 7 + \sqrt{5}$$

On comparing with $a + \sqrt{5}b$

$$a = 7, b = 1$$

$$\text{Ratio} = 7:8$$

Q. 6

A Can contains a mixture of two liquids A and B in the ratio 8:5. When 19 litres of mixture are drawn off and the Can is filled with B, the ratio of A and B becomes 9:8. How many litres of liquid A was contained by the initially?

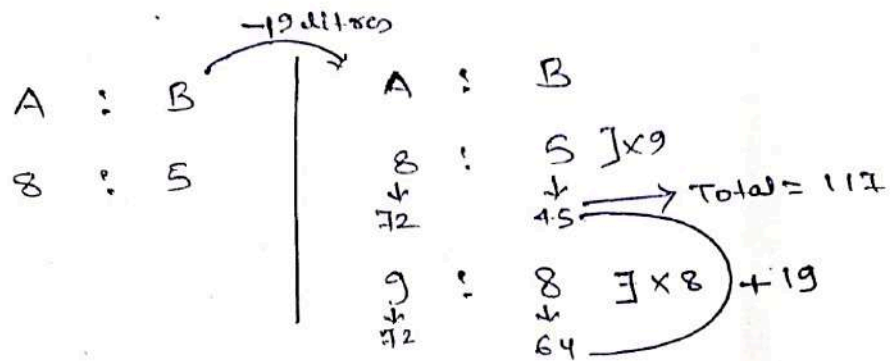
a) $52\frac{3}{13}$ ✗

b) $83\frac{9}{13}$ ✓

c) $83\frac{4}{13}$ ✗

d) $52\frac{5}{13}$ ✗

The correct answer is: b







Explanation:

19 unit — 19 litre.

117 unit — 117 litre.


$$\text{Initial mixture} = 117 + 19 \\ = 136 \text{ litre}$$


$$\begin{aligned} \text{A's initial quantity} &= \frac{8}{13} \times 136 \\ &= \frac{1088}{13} = 83\frac{9}{13} \text{ litres.} \end{aligned}$$


Q. 7	<p>If $2^x + 3^y = 43$ and $2^{(x-3)} + 3^{(y+1)} = 83$, then find the value of x and y?</p> <p>a) $x=3, y=4$ </p> <p>b) $x=4, y=3$ </p> <p>c) $x=4, y=4$ </p> <p>d) $x=3, y=3$ </p>
Explanation:	<p>The correct answer is: b</p> <p>From option b</p> <p>$x = 4, y = 3$</p> <p>$2^4 + 3^3 = 43$, and $2^{4-3} + 3^{3+1} = 2 + 81 = 83$</p>


Q. 8

If $x^3 = 184 + y^3$ and $x = 4 + y$, then the value of $(x+y)$ (given that $x > 0$ and $y > 0$):

a) $-2\sqrt{14}$ 

b) $-2\sqrt{11}$ 

c) $2\sqrt{11}$ 

d) $2\sqrt{14}$ 

The correct answer is: d

$$x^3 = 184 + y^3, \quad x = 4 + y \Rightarrow xy = 4$$

$$\Rightarrow x^3 - y^3 = 184$$

$$\Rightarrow (x-y)(x^2 + y^2 + xy) = 184$$

$$\Rightarrow (x^2 + y^2 + xy) = \frac{184}{4} = 46. \rightarrow (i)$$

Now,

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

$$\Rightarrow x^2 + y^2 - 2xy = 16 \rightarrow (ii)$$

From (i) and (ii) we get.

$$x^2 + y^2 - 2xy = 16.$$

$$x^2 + y^2 + xy = 46$$

$$\hline -3xy = -30$$

$$xy = 10.$$

$$x^2 + y^2 = 46 - xy$$

$$= 36.$$

$$(x+y)^2 = x^2 + y^2 + 2xy.$$





$$(x+y) = \sqrt{36 + 20}$$

$$= 2\sqrt{14}$$

Explanation:

Q. 9

The radius of the base of a cylindrical tank is 9 m. If five times the sum of the areas of its two circular faces is thrice the area of its curved surface, then the capacity (in kilolitres) of the tank is:

a) 1210π b) 1214π c) 1215π d) 1213π **Explanation:**

The correct answer is: c

Radius of the base of cylinder = $r = 9$ m

ATQ,

$$5 \times 2\pi r^2 = 3 \times 2\pi r h$$

$$\frac{r}{h} = \frac{3}{5}$$

Height of cylinder = 15 cm

Now,

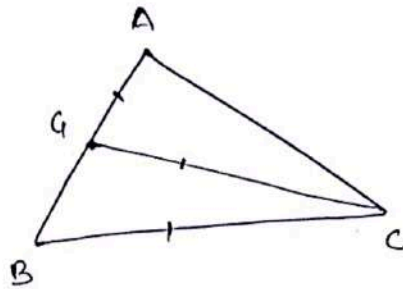
$$\text{Volume of cylinder} = \pi r^2 h = \pi \times 9 \times 9 \times 15 = 1215\pi \text{ m}^3 = 1215\pi \text{ kl}$$

Q. 10

In a triangle ABC, $AB = AC$. G is a point on AB such that $AG = GC = BC$. What is the degree measure of $(\angle AGC + \angle GCB)$?

a) 96 ☒b) 48 ☒c) 144 ☒d) 140 ☒

The correct answer is: c



Explanation:

Let $\angle BAC = x$.

$AG = GC$

$\therefore \angle GAC = \angle GCA = x$

$\therefore \angle AGC = 180 - 2x$

Now, In $\triangle BGC$

$\angle BGC = 2x = \angle GBC$

$\therefore \angle BCG = 180 - 4x$

In $\triangle ABC$

$AB = AC$

$\therefore \angle ABC = \angle ACB$

$2x = 180 - 4x + x$

$5x = 180$

$x = 36$

Now,

$$\begin{aligned} \angle AGC + \angle BCG &= 180 - 2x + 180 - 4x \\ &= 360 - 6x \\ &= 360 - 216 \\ &= 144^\circ \end{aligned}$$

Q. 11

The angle of elevation of the top of a tower from the top of a building whose height is 720 m is 45° and the angle of elevation of the top of same tower from the foot of the same building is 60° . What is the height (in m) of the tower?

a) $360(3 - \sqrt{3})$ ✗

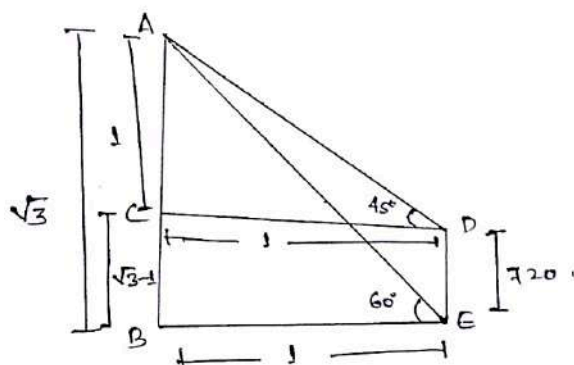
b) $360\sqrt{3} - 3$ ✗

c) $360(\sqrt{3} - 3)$ ✗

d) $360(3 + \sqrt{3})$ ✓

The correct answer is: d









Explanation:



$$\begin{aligned} \sqrt{3} - 1 &\rightarrow 720 & AB - \text{Tower} \\ 1 &\rightarrow \frac{720}{\sqrt{3} - 1} & DE - \text{Building.} \end{aligned}$$

$$\sqrt{3} \rightarrow \frac{720\sqrt{3}}{\sqrt{3} - 1} \times \frac{(\sqrt{3} + 1)}{(\sqrt{3} + 1)} = \frac{720\sqrt{3}(\sqrt{3} + 1)}{2}$$




$$\therefore AB = \text{Height of tower} = 360(3 + \sqrt{3}) \text{ m.}$$

Q. 12	<p>The median of a set of 11 distinct observations is 73.2. If each of the smallest five observation of the set is decreased by 4 and each of the largest five observations of the set is increased by 3, then the median of the new set:</p> <p>a) is 3 times that of the original set. </p> <p>b) is increased by 3. </p> <p>c) remains the same as that of the original set. </p> <p>d) is decreased by 4. </p>
Explanation:	<p>The correct answer is: c</p> <p>Here, the no. of set of observation is odd = $n = 11$</p> <p>So, Median = $\left(\frac{n+1}{2}\right)th\ term = 6th\ term$</p> <p>Therefore, Median remains the same because it does not affect the 6th term.</p>
Q. 13	<p>If $n = 65$, then find the approximate value of $\left(1 - \frac{1}{n}\right) + \left(1 - \frac{2}{n}\right) + \left(1 - \frac{3}{n}\right) + \dots (50th\ term)$.</p> <p>a) 33.15 </p> <p>b) 34.23 </p> <p>c) 31.23 </p> <p>d) 30.38 </p>
Explanation:	<p>The correct answer is: b</p> <p>$S = (1 - 1/n) + (1 - 2/n) + (1 - 3/n) + \dots (50\ terms)$</p> <p>$S = 1/n (n-1) + (n-2) + (n-3) \dots + (n-50)$</p> <p>$S = 1/n (50n - (1 + 2 + 3 + 4 \dots + 50))$</p> <p>$S = 50 - (50 * 51)/2n$</p> <p>$n = 65$</p> <p>$S = 50 - 25 * 51/65 = 30.38$</p>

Q. 14

Simplify the expression:

$$(0.3)^3 + (0.4)^3 + (-0.7)^3 + 4 \times 0.7 \times 0.4 \times 0.3$$

a) 0.980 b) 0.0098 c) 0.98 d) 0.084 

Explanation:

The correct answer is: d

$$= (0.3)^3 + (0.4)^3 + (-0.7)^3 + 4 \times 0.7 \times 0.4 \times 0.3$$

$$= (a)^3 + (b)^3 + (c)^3 = 3abc \text{ if } a + b + c = 0$$

$$= 0.3 + 0.4 + (-0.7) = 0$$


$$= 3 \times -0.7 \times 0.4 \times 0.3 + 4 \times 0.7 \times 0.4 \times 0.3$$

$$= (4 - 3) \times 0.7 \times 0.4 \times 0.3 = 0.084$$

You can solve this question using unit digit as well.

$$= 0.434 - 0.336 = 0.098$$

Q. 15

If the least common multiple of 95 and 285 can be expressed as $19R/2 \times 8 + 57$, then the value of R is:a) 1 b) 2 c) 0 d) 3 

Explanation:





The correct answer is: d

LCM of 95 and 285 is 285

ATQ

$$285 = \frac{19R}{2} \times 8 + 57$$

$$\therefore R = 3$$

Q. 16	<p>Find the greatest number which when divides 1129 and 1879, leaves remainders 22 and 34, respectively.</p> <p>a) 319 </p> <p>b) 81 </p> <p>c) 49 </p> <p>d) 369 </p>
Explanation:	<p>The correct answer is: d</p> <p>By division method</p> <p>From option d</p> <p>$1129 \div 369 \Rightarrow \text{Remainder} = 22$</p> <p>$1879 \div 369 \Rightarrow \text{Remainder} = 34$</p>

Q. 17

The monthly incomes of two friends Mohit and Amit, are in the ratio 7 : 9 respectively and each of them saves ₹68000 every month. If the ratio of their monthly expenditure is 2 : 5, find the monthly income of Amit (in ₹).

a) 1,00,800 ✗

b) 1,08,000 ✓

c) 1,00,000 ✗

d) 1,05,800 ✗

The correct answer is: b

Explanation:

	Mohit	Amit
Income →	7	9
	21	27
Expenditure →	2	5
	4	10
Savings:	17	17

↓

68000

$$1 \rightarrow 4000$$





$$27 \rightarrow 27 \times 4000$$

$$₹1,08,000$$

∴ Monthly income of Amit = ₹ 1,08,000.

Q. 18

Let $0^\circ < \theta < 90^\circ$, then $(1 + \cot^2 \theta)(1 + \tan^2 \theta)(\sin \theta - \operatorname{cosec} \theta)(\cos \theta - \sec \theta)$ is equal to:

- a) $\sin \theta + \cos \theta$ 
- b) $\sin \theta \cos \theta$ 
- c) $\operatorname{cosec} \theta \sec \theta$ 
- d) $\operatorname{cosec} \theta + \sec \theta$ 

Explanation:









The correct answer is: c

$$\Rightarrow (1 + \cot^2 \theta)(1 + \tan^2 \theta)(\sin \theta - \operatorname{cosec} \theta)(\cos \theta - \sec \theta)$$

$$\Rightarrow \operatorname{cosec}^2 \theta \times \sec^2 \theta \left(\frac{1 - \sin^2 \theta}{\sin \theta} \right) \left(\frac{1 - \cos^2 \theta}{\cos \theta} \right)$$





$$\Rightarrow \operatorname{cosec}^2 \theta \times \sec^2 \theta \times \frac{\cos^2 \theta}{\sin \theta} \times \frac{\sin^2 \theta}{\cos \theta}$$

$$\Rightarrow \operatorname{cosec} \theta \sec \theta$$

Q. 19	<p>The radius of a solid right circular cone is 36 cm and its height is 105 cm. The total surface area (in cm^2) of the cone is:</p> <p>a) 15635 </p> <p>b) 16632 </p> <p>c) 4296 </p> <p>d) 3996 </p>
Explanation:	<p>The correct answer is: b</p> <p>Radius = $r = 36$ cm, Height = $h = 105$ cm</p> <p>Slant height = $l = \sqrt{36^2 + 105^2} = 111$ cm</p> <p>Total surface area = $\pi r(r + l)$</p> $= \frac{22}{7} \times 36 \times (36 + 111)$ $= 16632 \text{ cm}^2$
Q. 20	<p>A man sells a mobile phone for ₹780 and loses something. If he had sold it for ₹1170, his gain would have been double the former loss. The cost price (in ₹) of the mobile phone is:</p> <p>a) 910 </p> <p>b) 1010 </p> <p>c) 810 </p> <p>d) 970 </p>
Explanation:	<p>The correct answer is: a</p> <p>ATQ,</p> $2(CP - 780) = (1170 - CP)$ $3CP = 2730$ $CP = 910$

Q. 21

If interest be compounded half-yearly, then find the compound interest (in Rs) on ₹16,000 at the rate of 25% per annum for 1 year.

- a) 3250 
- b) 3150 
- c) 4350 
- d) 4250 

The correct answer is: d

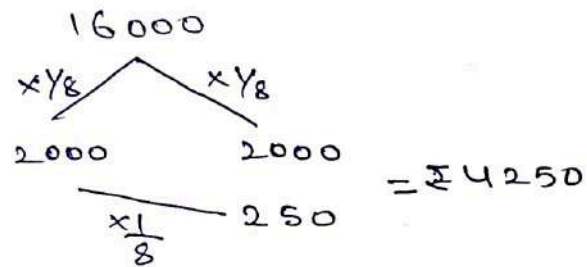
Explanation:

Rate = 25% yearly

= 12.5% half yearly = $\frac{1}{8}$





Principal = ₹ 16,000.

CI =



Q. 22

X invested ₹m for simple interest at 10% rate of interest per annum for 4 years, and Y invested ₹2,000 more than X for compound interest at 20% rate of interest per annum for 2 years. The ratio of the interest obtained by X and Y is 10 : 33, respectively. Find the investment of X.

- a) 2000 
- b) 3200 
- c) 2200 
- d) 1000 

The correct answer is: d

Explanation:

	X	Y
P →	m	(m + 2000)
R →	10%.	20%.
T →	4y	2y
Int →	$\frac{m \times 10 \times 4}{100}$	$(m + 2000) \left[\left(\frac{6}{5} \right)^2 - 1 \right]$

$$\frac{A.T.Q.}{\Rightarrow \frac{\frac{m \times 10 \times 4}{100}}{(m + 2000) \left[\left(\frac{6}{5} \right)^2 - 1 \right]} = \frac{10}{33}}$$

$$\Rightarrow \frac{40m}{100(m + 2000) \left(\frac{11}{25} \right)} = \frac{10}{33}$$

$$\Rightarrow \frac{m}{11(m + 2000)} = \frac{1}{33}$$

$$\Rightarrow 33m = 11m + 22000$$


$$\Rightarrow 22m = 22000$$

$$\Rightarrow m = ₹1000 \text{ (Ans)}$$

Q. 23

Evaluate the following.

$$\sin 25^\circ \sin 65^\circ - \cos 25^\circ \cos 65^\circ$$

a) 1 b) 2 c) 0 d) 40 **Explanation:**

The correct answer is: c

$$\cos(A+B) = \cos A \cos B - \sin A \sin B$$

$$-(\cos A \cos B - \sin A \sin B) = -\cos(A+B)$$





Let $A = 25^\circ$ and $B = 65^\circ$ Then:

$$\sin 25^\circ \sin 65^\circ - \cos 25^\circ \cos 65^\circ = -\cos(25^\circ + 65^\circ)$$

$$= -\cos 90^\circ = \cos 90^\circ = 0$$

Q. 24

The present ages of Sweta and Suman are in the ratio 3:5. After 4.5 years, the sum of their ages will be 49 years. Find the sum of the ages of Sweta and Suman 5 years ago.

- a) 25 
- b) 40 
- c) 45 
- d) 30 

The correct answer is: d

Explanation:

Sweta	:	Suman
$3n$		$5n$
\downarrow		\downarrow
$3n + 4.5$		$5n + 4.5$

ATQ

$$\Rightarrow 8n + 9 = 49$$





$$\therefore n = 5$$

Present Age \rightarrow Sweta = 15 yrs
 \rightarrow Suman = 25 yrs.

Sum of the age 5 years ago = $10 + 20$
 $= 30$ yrs.

Q. 25

If one of the interior angles of a regular polygon is $12/15$ times of one of the interior angles of a regular octagon, then find the number of diagonals of the polygon.

- a) 10 
- b) 15 
- c) 5 
- d) 8 

The correct answer is: c

Explanation:

Octagon = 8 sides.

Each exterior angle (Octagon) = $\frac{360}{8} = 45^\circ$





Each interior angle (Octagon) = $180 - 45 = 135^\circ$

Each interior angle (Polygon) = $\frac{12}{15} \times 135 = 108^\circ$

Sides of Polygon $\Rightarrow \frac{(n-2) \times 180}{n} = 108$


$\Rightarrow n = 5.$


No. of diagonal (Polygon) = $\frac{n(n-3)}{2}$
 $= \frac{5 \times 2}{2} = 5.$

Q. 26	<p>Seema walks around a circular field at the rate of 7 rounds per hour, while Priya runs around it at the rate of 5 rounds per hour. They start in the same direction from the same point at 11:44 a.m. They shall first cross each other at:</p> <p>a) 12:44 p.m. </p> <p>b) 12:14 a.m. </p> <p>c) 12:14 p.m. </p> <p>d) 12:44 a.m. </p>
Explanation:	<p>The correct answer is: c</p> <p>$V_s = 7 \text{ R.P.H}$</p> <p>$V_p = 5 \text{ R.P.H}$</p> <p>Relative speed = 2 Round per hours (due to same direction)</p> <p>They meet first time = $11 : 44 + \frac{60}{2}$</p> <p>= 11:44 + 30 min</p> <p>= 12:14 P.M.</p>


Q. 27

If the length of a common external tangent to two circles is 11 and that of a common internal tangent is 7, then the product of the radii of the two circles is:

a) 28 

b) 18 

c) 38 

d) 48 

Explanation:

The correct answer is: b

$$\text{Direct common tangent} = \sqrt{d^2 - (r_1 - r_2)^2}$$

$$\text{Transverse common tangent} = \sqrt{d^2 - (r_1 + r_2)^2}$$

ATQ,

$$11^2 = d^2 - (r_1 - r_2)^2$$

$$d^2 = 11^2 + (r_1 - r_2)^2 \text{ --- (i)}$$

Similarly,

$$7^2 = d^2 - (r_1 + r_2)^2$$

$$d^2 = 7^2 + (r_1 + r_2)^2 \text{ --- (ii)}$$

From (i) and (ii)





$$11^2 + (r_1 - r_2)^2 = 7^2 + (r_1 + r_2)^2$$

$$11^2 - 7^2 = 4 \times r_1 \times r_2$$

$$r_1 \times r_2 = \frac{72}{4} = 18$$

Q. 28

The monthly expenses of a person are 18.18% more than her monthly savings. If her monthly income increases by 33.33% and her monthly expenses increase by 60%, then there is an increase of ₹1,040 in her monthly savings. What is the initial expenditure (in ₹)?

- a) 57600 
- b) 43600 
- c) 68600 
- d) 67600 

The correct answer is: d

Explanation:

Income	Expense	Savings.	$\rightarrow 18.18\% = \frac{2}{11}$
24	13	11	
$+33.33\% \downarrow$	$\downarrow +60\%$	\downarrow	
32	20.8	11.2	

0.2 \rightarrow Rs 1040

1 \rightarrow Rs 5200

13 \rightarrow Rs $5200 \times 13 = \text{Rs } 67600$

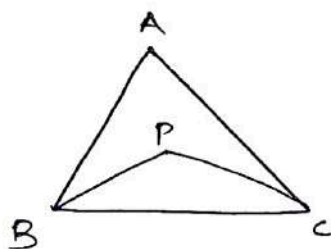
Initial expenditure = Rs 67600.

Q. 29

In $\triangle ABC$, $\angle A = 63^\circ$ and $\angle B = 50^\circ$. If the bisectors of $\angle B$ and $\angle C$ meet at P, then $\angle BPC - \angle PCA$ (in degree)?

a) 121.5 ✗b) 33.5 ✗c) 88.5 ✗d) 88 ✓

The correct answer is: d



$$\angle A = 63^\circ, \angle B = 50^\circ$$

$$\therefore \angle C = 180 - (63 + 50) = 67^\circ$$

Explanation:

BP and CP \rightarrow angle bisectors.

$$\begin{aligned} \angle BPC &= 90 + \frac{\angle A}{2} \\ &= 90 + \frac{63}{2} = 121.5^\circ \end{aligned}$$

$$\angle PCA = \frac{\angle C}{2} = \frac{67}{2} = 33.5^\circ$$

$$\begin{aligned} \text{Now, } \angle BPC - \angle PCA &= 121.5 - 33.5 \\ &= 88^\circ \end{aligned}$$

Q. 30

There are three taps of diameter 2.4 cm, 3.2 cm and 4.1 cm, respectively. The ratio of the water flowing through them is equal to the ratio of the square of their diameters. The biggest tap can fill an empty tank alone in 65.62 min. If all the taps are opened simultaneously, then how long will the tank take (in min) to be filled?

a) $33\frac{31}{50}$ ✓

b) $31\frac{31}{50}$ ✗

c) $33\frac{21}{50}$ ✗

d) $33\frac{41}{50}$ ✗

The correct answer is: a

Explanation:

Tap	→	A	B	C
Diameter	→	2.4	3.2	4.1
Efficiency	→	$(2.4)^2$ 5.76	$(3.2)^2$ 10.24	$(4.1)^2$ 16.81
⇒ Total = 32.81				

Total work = 16.81×65.62 .

$$\begin{aligned}
 \text{Time taken by all 3 pipes} &= \frac{16.81 \times 65.62}{32.81} \\
 &= \frac{16.81 \times 2}{100} \\
 &= \frac{16.81}{50} = 33\frac{31}{50} \text{ min.}
 \end{aligned}$$

Q. 31

Each of seven vegetable sellers, Ram, Nitin, Shyam, Gokul, Mohan, Jogi and Kalyan go to the Town Centre of a particular town, Khandesh, on different days of the same week starting from Monday and ending on Sunday.

Jogi goes to sell vegetables on Wednesday

Only two persons sell vegetables between Jogi and Gokul.

Ram goes to sell vegetables on one of the days before Gokul but immediately after Nitin.

Kalyan goes to sell vegetables on one of the days after Mohan but on one of the days before Nitin.

Who goes to sell vegetables on Sunday?

a) Gokul 

b) Kalyan 

c) Shyam 





d) Nitin 





The correct answer is: c

Explanation:

Monday → Mohan
Tuesday → Kalyan
Wednesday → Jogi
Thursday → Nitin
Friday → Ram
Saturday → Gokul
Sunday → Shyam

Shyam goes to sell vegetable on Sunday.

<p>Q. 32</p>	<p>Consider the argument and decide which of the given assumptions is/are implicit.</p> <p>Argument:</p> <p>Due to potholes in the city a large number of people are unable to reach the airport on time.</p> <p>Assumptions:</p> <ol style="list-style-type: none"> 1. Reaching the airport on time is not necessary. 2. There is no other route to the airport. <p>a) Both 1 and 2 are implicit. </p> <p>b) Only assumption I is implicit </p> <p>c) Only assumption II is implicit </p> <p>d) Neither 1 nor 2 is implicit </p>
<p>Explanation:</p>	<p>The correct answer is: Only assumption II is implicit</p> <ol style="list-style-type: none"> 1. "Reaching the airport on time is not necessary." <ul style="list-style-type: none"> ◦ This contradicts the argument, which implies that reaching on time is important (otherwise, why mention the problem?). ◦ Not Implicit. 2. "There is no other route to the airport." <ul style="list-style-type: none"> ◦ The argument suggests that potholes are causing delays, meaning people are forced to take the affected route. ◦ If there were a smooth alternative, people would likely take it, so the argument assumes no better route exists. ◦ Explicit.

Q. 33	<p>A statement is given followed by two conclusions. Find which conclusion(s) is/are true based on the given statement.</p> <p>Statement:</p> $G > A > N = E = S > H$ <p>Conclusions:</p> <p>I. $S > A$ II. $H < G$</p> <p>a) Only II  b) Neither I nor II  c) Only I  d) Both I and II </p>
Explanation:	<p>The correct answer is: a</p> <p>Explanation:</p> <p>I. $S > A$</p> <ul style="list-style-type: none"> From the given order, A is greater than N and S is equal to N ($S = N$). Therefore, $A > S$, which means this conclusion is not true. <p>II. $H < G$</p> <ul style="list-style-type: none"> According to the given hierarchy, G is greater than A, and A eventually leads to $S > H$. Thus, $H < G$ is logically true.

Q. 34

Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.

ZYX, TSR, NML, ?

a) HGF ✓

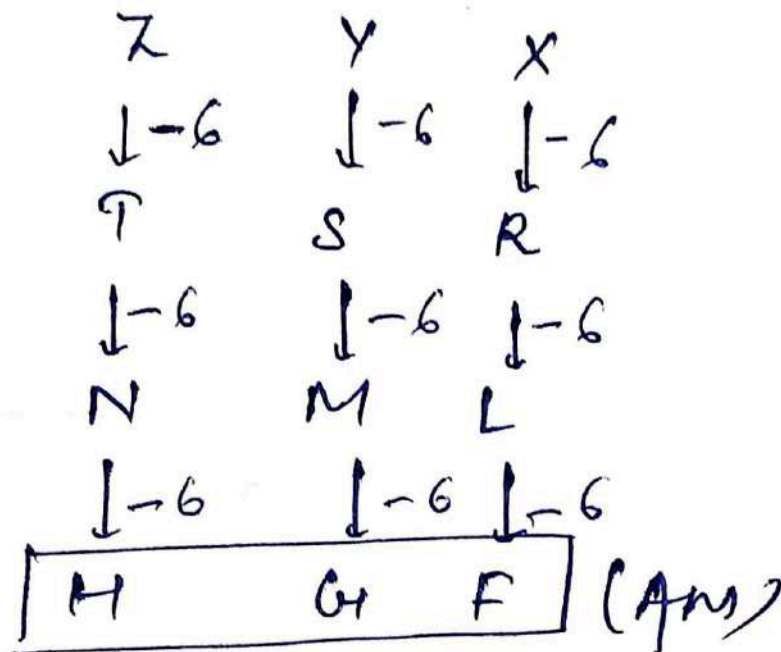
b) HIJ ✗

c) IHG ✗

d) HJF ✗

The correct answer is: a

Explanation:



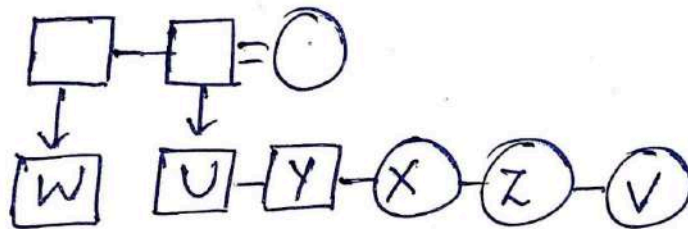
Q. 35

There are six children in a family, namely U, V, W, X, Y, and Z. U and Y are brothers. Z and X are the sisters of Y. W is the only son of U's uncle. V and X are the daughters of the brother of W's father. How is X related to U?

- a) Mother ☒
- b) Niece ☒
- c) Wife ☒
- d) Sister ☒

The correct answer is: d

Explanation:



'X' is the Sister of 'U'.

Q. 36

A statement is given followed by two inferences I and II. You have to consider the statement to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given inferences if any follow from the given statement.

Statement: "TV and Mobiles addiction in children has a very bad impact on their overall development."

Inferences:

I. Too much exposure to smart screens can affect the brain development of kids.

II. TV helps in engaging the kids and teach them new skills.

a) Only inference I follows



b) Only inference II follows



c) Both the inferences follow



d) Neither I nor II follows.



Explanation:

Inferences:

I. Too much exposure to smart screens can affect the brain development of kids.

- This directly aligns with the statement as "a very bad impact on their overall development" could encompass brain development issues. So, this inference **follows**.

II. TV helps in engaging the kids and teaching them new skills.





- While this could be true in a different context, it **contradicts the given statement**, which emphasizes the negative effects of TV and mobile addiction. Hence, this inference does **not follow**.

Answer:

Only inference I follows. The statement explicitly points towards the adverse effects, and nothing in it supports the idea of TV being beneficial for teaching kids new skills.

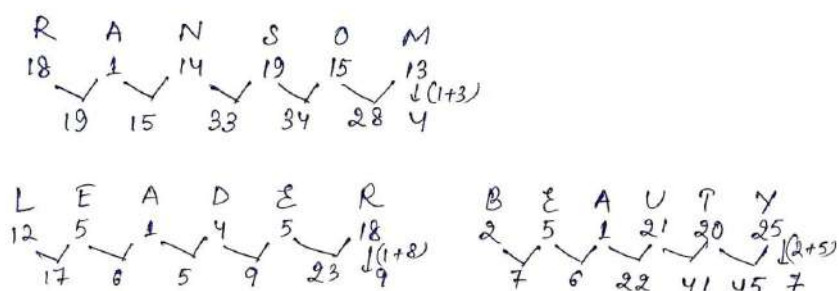
Q. 37

RANSOM is related to 19153334284 in a certain way based on the English alphabetical order. In the same way, LEADER is related to 17659239. To which of the following is BEAUTY related, following the same logic?

- a) 752143447 
- b) 772342467 
- c) 762241457 
- d) 782140447 





The correct answer is: c

Explanation:



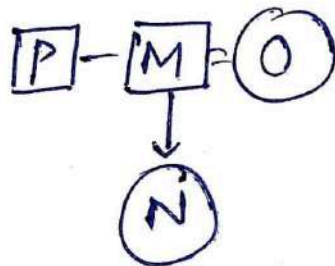
Q. 38

$X + Y$ means 'X is the father of Y',
 $X - Y$ means 'X is the wife of Y',
 $X \times Y$ means 'X is the brother of Y',
 $X \div Y$ means 'X is the daughter of Y'.
If $P \times M + N \div O$, then which of the following is true?

- a) M is the son of O 
b) M is the brother of O 
c) M is the father of O 
d) M is the husband of O 

The correct answer is: d

Explanation:



from option(d)
M is the husband of O.

Q. 39


Seven students Jiya, Tanya, Veena, Rakhi, Mukul, Gauri, and Priyanka are sitting on a straight bench facing towards the North. Rakhi is sitting at the middle position. Veena is second to the left of Rakhi and Gauri is third to the right of Veena. Mukul and Jiya are not sitting at any of the ends. Jiya is sitting second to the right of Priyanka. Who is sitting to the immediate left of Jiya?

- a) Tanya 
- b) Veena 
- c) Rakhi 
- d) Mukul 

The correct answer is: b

Explanation:

Priyanka Veena Jiya Rakhi Gauri Mukul Tanya




Veena is sitting to the immediate left of Jiya.


Q. 40


Select the number from among the given options that can replace the question mark (?) in the following series.

4, 8, 9, 27, 16, ?, 25

a) 24 

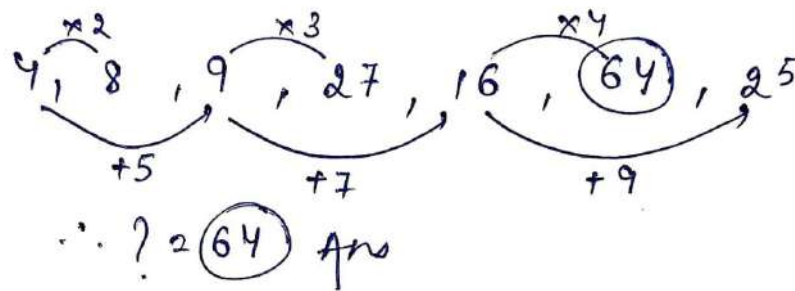
b) 48 

c) 36 

d) 64 

The correct answer is: d


Explanation:





Q. 41


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

14 : 84 :: 18 : ?

a) 162 

b) 144 

c) 181 

d) 126 

The correct answer is: b

Explanation:

$$\textcircled{I} \quad 14 : 84 :: 18 : ?$$

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

$$\Rightarrow 14 \times (7-1) = 84$$

$$\textcircled{II} \quad \frac{18}{2} = 9$$

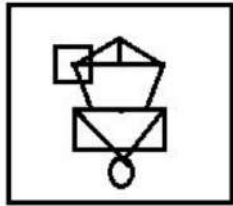
$$\Rightarrow 18 \times (9-1) = 144$$

Q. 42

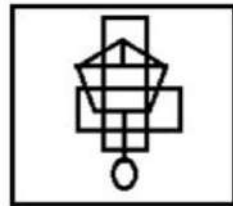
Select the option in which the given figure is embedded (rotation is NOT allowed).



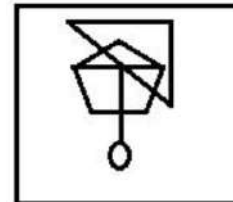
a)



b)



c)

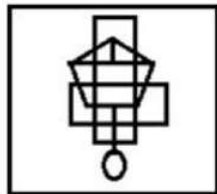


d)



The correct answer is: b

Explanation:



Q. 43

In the question, one statement is given followed by two conclusions I and II. You have to consider the statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the conclusions, if any, follow from the given statements.

Statement: "Flat 15% off on each item on every Wednesday. Offer applicable on SBI bank Debit cards only."

Conclusions:

I. Each and every product is available at 15% discount on Wednesday only.

II. Customers having credit card of SBI bank can also avail this offer.

a) Only conclusion I follows



b) Only conclusion II follow



c) Both the conclusions follow



d) None of the conclusions follow

**Explanation:**

The correct answer is: Only conclusion I follows

I. Each and every product is available at 15% discount on Wednesday only.

- The statement specifies that the discount applies to "each item" but only on Wednesdays. This conclusion aligns with the statement and thus follows.




II. Customers having credit card of SBI bank can also avail this offer.

- The statement explicitly mentions "Debit cards only," clearly excluding credit cards. Therefore, this conclusion **does not follow**.

Q. 44

If + means \times , - means \div , \times means $-$, \div means $+$, then what will be the value of the following expression?

$$120 - 15 \div 5 + 20 \times 3 + 10 = ?$$

a) 89 b) 78 c) 73 d) 67 **Explanation:**

The correct answer is: b

$$120 - 15 \div 5 + 20 \times 3 + 10 = ?$$

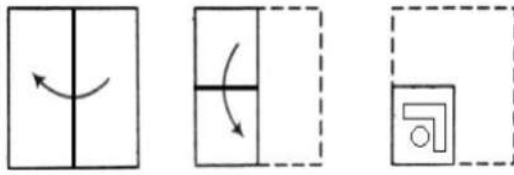
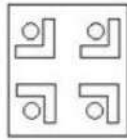
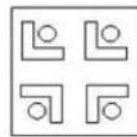
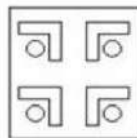
If + means \times , - means \div , \times means $-$, \div means $+$, then

$$\Rightarrow 120 \div 15 + 5 \times 20 - 3 \times 10$$

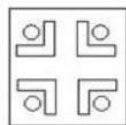
$$\Rightarrow 8 + 100 - 30 = 78$$

Q. 45

The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?

**a)****b)****c)****d)****Explanation:**

The correct answer is: d



Q. 46

A question is given, followed by two statements labelled I and II. Identify which of the statements is/are sufficient to answer the question.

Question:

Seven persons (A, B, C, D, E, F, G) are sitting in a line facing north. Who is sitting second to the right of D?

Statement I: A is sitting at the extreme left. D is third to the right of A. There are two people between B and C. E is adjacent to F. G is not at any extreme end.

Statement II: G is second to the right of B. D is adjacent to G. A is sitting between E and F. C is at the extreme right end.

The data in statements I alone is sufficient to answer the question,
a) while the data in statement II alone is not sufficient to answer the question.



The data in statements II alone is sufficient to answer the question,
b) while the data in statement I alone is not sufficient to answer the question.



c) Neither statement I nor statement II is sufficient to answer the questions.



d) The data in both the statements I and II together is necessary to answer the question.



The correct answer is: Neither statement I nor statement II is sufficient to answer the questions.

Statement I:

A B/C G D C/B E/F F/E
 ↑ ↑ ↑ ↑ ↑ ↑ ↑

E or F can be second to the right of D.

Statement II:-

Explanation:

a) B D G E/F A E/F C
 ↑ ↑ ↑ ↑ ↑ ↑ ↑

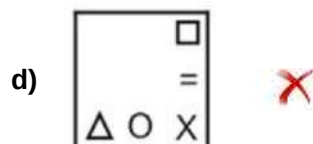
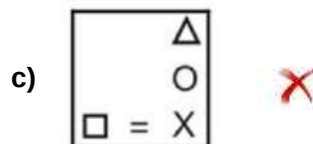
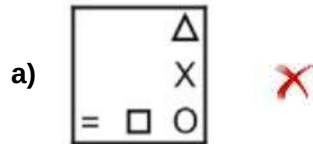
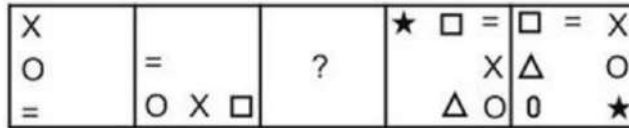
b) E/F A E/F B D G C
 ↑ ↑ ↑ ↑ ↑ ↑ ↑

E, F or C can be second to the right of D.

∴ Neither I or II is sufficient to answer the question.

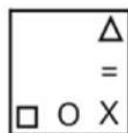
Q. 47

Select the figure from among the given options that can replace the question mark (?) in the following series.



The correct answer is: b

Explanation:




Q. 48

Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the one that is different.

a) OAUI 

b) AEIO 

c) EIOU 

d) IOUA 

Explanation:

Explanation:

The clusters consist of vowels, and three of them are arranged in **increasing alphabetical order**, while one is not.

1. **OAUI**

- The order of vowels here is **not in alphabetical order** (O → A → U → I). Hence, this cluster is the odd one out.

2. **AEIO**

- The vowels are arranged in **alphabetical order** (A → E → I → O). This cluster follows the pattern.

3. **EIOU**

- The vowels are arranged in **alphabetical order** (E → I → O → U). This cluster follows the pattern.

4. **IOUA**

- The vowels are arranged in **alphabetical order** (I → O → U → A). This cluster follows the pattern.

Correct Option:

OAUI It stands out because it does not follow the alphabetical arrangement, while the others do.

Q. 49

Read the following statements and conclusion and choose the best option among the following.

Statements:

Some docks are waves.

No wave is a hanger

Conclusions:

(I) All hangers being docks is a possibility.

(II) At least some hanger is a wave.

a) Neither conclusion I or conclusion II follows

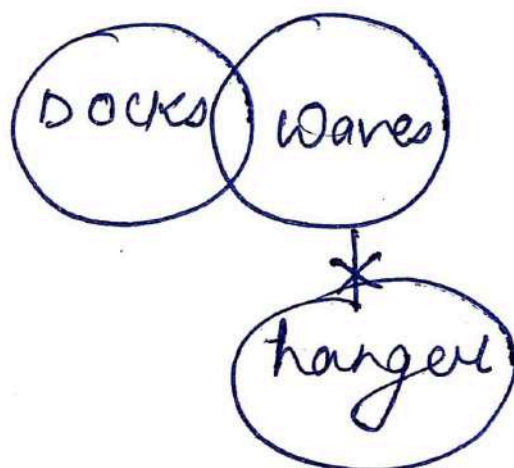
b) Only conclusion II follows

c) Only conclusion I follows

d) Both conclusion I and conclusion II follow

Explanation:

The correct answer is: c



only conclusion I follow.

Q. 50

In a certain code, BAREILLY is coded as BAREYLLI. How will MIRJAPUR be coded in that language?





- a) MIRJRUPA ✓
- b) RUPAMIRJ ✗
- c) RUPAJRIM ✗
- d) MIRJARUP ✗





Explanation:

The correct answer is: a

B A R E I L L Y
 ↓ ↓ ↓ ↓ ↗ ↘ ↘
 B A R E Y L L I

M I R J A P U R
 ↓ ↓ ↓ ↓ ↗ ↘ ↘
 M I R J R U P A

Q. 51	<p>Gymnosperm : Cycas :: Bryophytes: ? What will come at the place of question mark?</p> <p>a) Pea </p> <p>b) Ferns </p> <p>c) Conifers </p> <p>d) Mosses </p>
Explanation:	<p>The correct answer is: d</p> <p>Gymnosperm : Cycas</p> <ul style="list-style-type: none"> Cycas is an example of Gymnosperms, which are plants that produce seeds but do not have flowers. <p>Bryophytes : ?</p> <ul style="list-style-type: none"> Bryophytes are non-vascular plants that do not produce seeds and include mosses, liverworts, and hornworts. Among the given options, Mosses is the correct example of Bryophytes.

Q. 52	<p>If P = '+', Q = '-', R = '×' and S = '÷', then what will be the value of the following expression. 4 R 8 Q 10 P 12 S 3</p> <p>a) 32 </p> <p>b) 30 </p> <p>c) 26 </p> <p>d) 24 </p>
Explanation:	<p>The correct answer is: c</p> <p>4 R 8 Q 10 P 12 S 3</p> <p>If P = '+', Q = '-', R = '×' and S = '÷', then</p> <p>=> $4 \times 8 - 10 + 12 \div 3$</p> <p>=> $32 - 10 + 4$</p> <p>=> $22 + 4 = 26$</p>

Q. 53

Select the correct option based on the statements and reasons given below?

Statements:

All cups are bowls.

All bowls are spoons.

Conclusions:

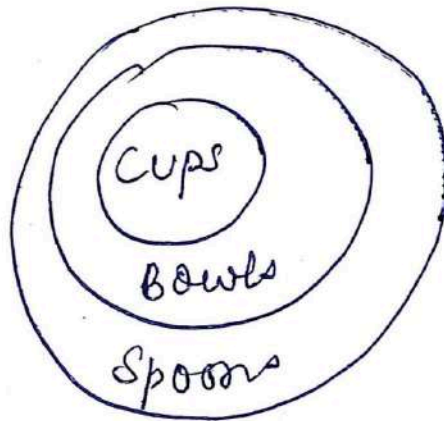
I. Some cups are not spoons.

II. Some spoons are cups.









- a) Only conclusion II follows ✓
- b) Both conclusion I and conclusion II follow ✗
- c) Only conclusion I follows ✗
- d) Neither conclusion I or conclusion II follows ✗





Explanation:

The correct answer is: a







only conclusion II follows.

Q. 54	<p>How many meaningful English words can be formed from Z, B, E and A, using each letter mandatorily but only once in each word?</p> <p>a) Two </p> <p>b) More than two </p> <p>c) None </p> <p>d) One </p>
Explanation:	<p>The correct answer is: c</p> <p>By trying different combinations, the following meaningful English word can be formed:</p> <ol style="list-style-type: none"> 1. BEAZ: This is not a valid English word. 2. BAZE: This is not a standard English word. (Archaic word, not used anymore) <p>No valid English word can be formed using the letters Z, B, E, A.</p>
Q. 55	<p>Select the correct mirror image of the given letter-cluster when a vertical mirror is placed on the right side of the cluster.</p> <p>R h f g b q</p> <p>a) p d g i r Я </p> <p>b) p d g j r Я </p> <p>c) p d g i h Я </p> <p>d) b q g i r Я </p>
Explanation:	<p>The correct answer is: a</p> <p>p d g i r Я</p>

Q. 56	<p>Select the option that indicates the correct arrangement of the given words in a logical and meaningful order.</p> <ol style="list-style-type: none">1. Universe2. Country3. Sun4. Earth5. Milky Way <p>a) 1,2,3,4,5 </p> <p>b) 5,4,3,2,1 </p> <p>c) 1,5,3,4,2 </p> <p>d) 1,4,2,5,3 </p>
Explanation:	<p>The correct answer is: c</p> <ol style="list-style-type: none">1. Universe: This is the largest entity and encompasses everything else.2. Milky Way: The Milky Way is a galaxy within the Universe.3. Sun: The Sun is a star located within the Milky Way.4. Earth: The Earth is a planet that orbits the Sun.5. Country: A country is a political and geographical division on Earth. <p>Logical order:</p> <p>Universe → Milky Way → Sun → Earth → Country</p>

Q. 57

In a code language, 'trek to the mountain' is written as 'tes mel fern lor', 'the mountain is high' is written as 'lor max fern ani', 'high to the sky' is written as 'tes ani sav fern'. What is the code for the word 'trek' in this language?

- a) max 
- b) mel 
- c) tes 
- d) fern 

Explanation:

The correct answer is: b

'trek to the mountain' → 'tes mel fern lor'
'the mountain is high' → 'lor max fern ani'
'high to the sky' → 'tes ani sav fern'.

code for 'the' → 'fern'
'mountain' → 'lor'
'to' → 'tes'
'trek' → 'mel' (Ans)





Q. 58

Select the set in which the numbers are related in the same way as are the numbers of the given 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 /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.)

(19, 64, 11)

(27, 169, 14)

a) (20, 100, 8) b) (22, 121, 11) c) (25, 81, 15) d) (23, 110, 12) 

Explanation:

The correct answer is: b

Logic: 1st no. - $\sqrt{2\text{nd number}}$ = 3rd number

- $19 - \sqrt{64} = 11$
- $27 - \sqrt{169} = 14$
- $22 - \sqrt{121} = 11$

Q. 59

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

_ I R _ O O Z I _ R R O _ Z I I _ R _ O _

a) I R Z O O I Z b) I R I O R O Z c) I I R O O R O d) I I O O R R Z 

Explanation:

The correct letter combination to fill in the blanks is I R I O R O Z.

I I R R / O O Z / I I R R / O O Z / I I R R / O O Z

Q. 60

Based on the position in the English alphabetical order, three of the following letter-clusters are alike in some manner and one is different. Select the odd letter-cluster.

a) MQUW ✗

b) IMQS ✗

c) CGKM ✗

d) SWZB ✓

The correct answer is: d





Explanation:









M Q U W
 $+4 \quad +4 \quad +2$





I M Q S
 $+4 \quad +4 \quad +2$





C G K M
 $+4 \quad +4 \quad +2$









S W Z B (odd)
 $+4 \quad +3 \quad +2$





Q. 61	<p>Select the most appropriate meaning of the given idiom.</p> <p>"Hit the nail on the head"</p> <p>a) To make a mistake </p> <p>b) To describe exactly what is right </p> <p>c) To work hard </p> <p>d) To argue unnecessarily </p>
Explanation:	<p>Explanation:</p> <p>The idiom "Hit the nail on the head" means to say or do something that is precisely correct or accurate. It comes from carpentry—when you strike a nail perfectly on its head, you drive it in effectively. Similarly, in speech/action, it refers to identifying the core issue or giving an exact solution.</p>





Q. 62	<p>Select the option that can be used as a one-word substitute for the given group of words.</p> <p>A person who loves books and collects them</p> <p>a) Bibliophile </p> <p>b) Philanthropist </p> <p>c) Misogynist </p> <p>d) Omnivore </p>
Explanation:	<p>Explanation:</p> <p>A bibliophile is someone who loves, collects, or is deeply passionate about books. The word comes from Greek:</p> <ul style="list-style-type: none"> • "Biblio" = book • "Phile" = lover <p>Other options explained:</p> <p>Philanthropist: This term describes someone who seeks to promote the welfare of others, typically by donating money or resources to charitable causes. "Philo" means loving, and "anthropos" refers to humans—so, a philanthropist is a lover of humanity.</p> <p>Misogynist: This term refers to someone who harbours a dislike or hatred for women. "Miso" means hatred, and "gyne" refers to women. It is the opposite of any loving inclination.</p> <p>Omnivore: An omnivore is an organism that eats both plant-based and animal-based food. "Omni" means all, and "vore" pertains to eating. This term is used in a dietary context rather than describing a love for anything.</p>
Q. 63	<p>Select the most appropriate SYNONYM of the highlighted word.</p> <p>"Voracious"</p> <p>a) Hungry </p> <p>b) Slow </p> <p>c) Tiny </p> <p>d) Angry </p>
Explanation:	<p>Explanation:</p> <p>"Voracious" means having a huge appetite—either literally (for food) or figuratively (for knowledge, success, etc.). Its closest synonym is "hungry."</p>





Q. 64	<p>Select the most appropriate ANTONYM of the highlighted word.</p> <p>"Ephemeral"</p> <p>a) Temporary </p> <p>b) Permanent </p> <p>c) Fragile </p> <p>d) Sudden </p>
Explanation:	<p>"Ephemeral" means lasting for a very short time (e.g., ephemeral joy, ephemeral flowers). Its direct antonym is "Permanent" (lasting forever/indefinitely).</p>





Q. 65	<p>Which pair are HOMONYMS?</p> <p>a) Bear (animal) / Bare (uncovered) </p> <p>b) Peace (calm) / Piece (part) </p> <p>c) Flower (plant) / Flour (ingredient) </p> <p>d) All of the above </p>
Explanation:	<p>Explanation:</p> <p>Homonyms are words that sound alike but have different meanings/spellings.</p> <p>All options qualify:</p> <p>Bear (animal) vs Bare (naked) "A bear eats fish" vs "Walk with bare feet"</p> <p>Peace (calm) vs Piece (part) "World peace" vs "A piece of cake"</p> <p>Flower (plant) vs Flour (baking ingredient) "Rose is a flower" vs "Mix flour with water"</p>





Q. 66	<p>Select the CORRECTLY spelled word.</p> <p>a) Accommodate </p> <p>b) Acommodate </p> <p>c) Accomodate </p> <p>d) Acomodate </p>
Explanation:	<p>Explanation:</p> <p>The correct spelling is "Accommodate" with:</p> <p>Two 'c's + Two 'm's</p> <p>Root: Latin "<i>accommodare</i>" (to fit/furnish)</p> <p>Why others are wrong?</p> <p>Acommodate → Missing first 'c'</p> <p>Accomodate → Missing second 'm'</p> <p>Acomodate → Missing both 'c' and 'm'</p>
Q. 67	<p>In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.</p> <p>The rapid (1)_____ of artificial intelligence (AI) has sparked both enthusiasm and apprehension. While some hail it as a (2)_____ to humanity's most pressing problems, others warn of its (3)_____ consequences if left unregulated. Experts emphasize that (4)_____ collaboration between governments and tech firms is crucial to harness AI's potential responsibly.</p> <p>The rapid (1) of artificial intelligence (AI) has sparked both enthusiasm and apprehension.</p> <p>a) decline </p> <p>b) proliferation </p> <p>c) stagnation </p> <p>d) obstruction </p>
Explanation:	<p>"Proliferation" (rapid increase/spread) fits the context of AI's growth.</p> <p>"Decline" and "stagnation" contradict the passage; "obstruction" is irrelevant.</p>





Q. 68	<p>In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.</p> <p>The rapid (1)_____ of artificial intelligence (AI) has sparked both enthusiasm and apprehension. While some hail it as a (2)_____ to humanity's most pressing problems, others warn of its (3)_____ consequences if left unregulated. Experts emphasize that (4)_____ collaboration between governments and tech firms is crucial to harness AI's potential responsibly.</p> <p>While some hail it as a (2) to humanity's most pressing problems, others warn of its risks.</p> <p>a) Menace </p> <p>b) Panacea </p> <p>c) Obstacle </p> <p>d) Fallacy </p>
Explanation:	<p>"Panacea" (a universal solution) contrasts with "risks" later in the sentence. "Menace" and "obstacle" are negative; "fallacy" means misconception.</p>

Q. 69	<p>In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.</p> <p>The rapid (1)_____ of artificial intelligence (AI) has sparked both enthusiasm and apprehension. While some hail it as a (2)_____ to humanity's most pressing problems, others warn of its (3)_____ consequences if left unregulated. Experts emphasize that (4)_____ collaboration between governments and tech firms is crucial to harness AI's potential responsibly.</p> <p>Others warn of its (3) consequences if left unregulated.</p> <p>a) Benign </p> <p>b) Inadvertent </p> <p>c) Pernicious </p> <p>d) Trivial </p>
Explanation:	<p>"Pernicious" (harmful/destructive) aligns with warnings about unregulated AI. "Benign" (harmless) and "trivial" (unimportant) oppose the context; "inadvertent" (unintentional) is weaker.</p>

Q. 70	<p>In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.</p> <p>The rapid (1)_____ of artificial intelligence (AI) has sparked both enthusiasm and apprehension. While some hail it as a (2)_____ to humanity's most pressing problems, others warn of its (3)_____ consequences if left unregulated. Experts emphasize that (4)_____ collaboration between governments and tech firms is crucial to harness AI's potential responsibly.</p> <p>Experts emphasize that (4) collaboration between governments and tech firms is crucial.</p> <p>a) Superficial </p> <p>b) Adversarial </p> <p>c) Synergistic </p> <p>d) Sporadic </p>
Explanation:	<p>Explanation:</p> <p>"Synergistic" (combined effort for greater effect) suits the need for cooperation. "Superficial" (shallow) and "sporadic" (irregular) are inadequate; "adversarial" (oppositional) contradicts the message.</p>

Q. 71	<p>Select the option that expresses the given sentence in Indirect speech.</p> <p>She said, "I will finish this project by tomorrow."</p> <p>a) She said that she will finish that project by the next day. </p> <p>b) She said that she would finish that project by tomorrow. </p> <p>c) She said that she would finish that project by the next day. </p> <p>d) She said that she will finish this project by tomorrow. </p>
Explanation:	<p>Explanation:</p> <p>Pronoun Change: "I" → "she" (to match the subject "She").</p> <p>Tense Shift: "will" → "would" (future → conditional in indirect speech).</p> <p>Time Adjustment: "tomorrow" → "the next day" (standard in indirect speech).</p> <p>Demonstrative Change: "this" → "that" (as the project is no longer immediate).</p>

Q. 72	<p>Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.</p> <p>P: The Arctic is warming twice as fast as the global average.</p> <p>Q: Rising temperatures threaten indigenous communities and wildlife.</p> <p>R: This phenomenon, called Arctic amplification, is alarming.</p> <p>S: Melting ice caps could disrupt global weather patterns.</p> <p>a) RPSQ </p> <p>b) PSRQ </p> <p>c) PQRS </p> <p>d) PRQS </p>
Explanation:	<p>Explanation:</p> <p>P states the fact (Arctic warming).</p> <p>R names the phenomenon (Arctic amplification).</p> <p>Q explains local consequences (communities/wildlife).</p> <p>S warns of global impacts (weather disruption).</p>





Q. 73	<p>Select the correct option from the given options to fill in the blank.</p> <p>The company decided to ____ the new policy ____ April 1st.</p> <p>a) carry, on </p> <p>b) implement, from </p> <p>c) apply, at </p> <p>d) enforced, by </p>
Explanation:	<p>Explanation:</p> <p>"Implement" (to put into effect) fits the context of policies.</p> <p>"From" indicates a starting date.</p>

Q. 74

Read the given passage and answer the questions that follow.

The accelerating pace of climate change is causing unprecedented impacts on global biodiversity. Rising temperatures, shifting weather patterns, and ocean acidification are disrupting ecosystems and pushing species toward extinction. Coral reefs, often called the "rainforests of the sea," have suffered devastating bleaching events due to warmer waters. Similarly, Arctic species like polar bears face habitat loss as sea ice melts. While conservation efforts such as protected areas and breeding programs show promise, scientists warn these measures may be inadequate without addressing root causes like fossil fuel emissions and deforestation. International cooperation, as seen in the Paris Agreement, remains critical to mitigate these threats.

What is the primary focus of the passage?

- a) Economic impacts of climate change 
- b) Effects of climate change on biodiversity 
- c) Technological solutions for pollution 
- d) History of international agreements 

Explanation:

Explanation:

The passage consistently emphasizes how climate change is affecting various species and ecosystems.

Key evidence includes:





- Specific examples of impacted species (coral reefs, polar bears)
- Discussion of ecosystem disruptions
- Focus on biodiversity threats rather than economic or technological aspects.

Q. 75

Read the given passage and answer the questions that follow.

The accelerating pace of climate change is causing unprecedented impacts on global biodiversity. Rising temperatures, shifting weather patterns, and ocean acidification are disrupting ecosystems and pushing species toward extinction. Coral reefs, often called the "rainforests of the sea," have suffered devastating bleaching events due to warmer waters. Similarly, Arctic species like polar bears face habitat loss as sea ice melts. While conservation efforts such as protected areas and breeding programs show promise, scientists warn these measures may be inadequate without addressing root causes like fossil fuel emissions and deforestation. International cooperation, as seen in the Paris Agreement, remains critical to mitigate these threats.

Why are coral reefs compared to rainforests?

- a) Coral reefs are called rainforests because they provide shade for marine animals. 
- b) Coral reefs resemble rainforests because they consist of tall structures like trees. 
- c) Coral reefs and rainforests are similar because they grow in freshwater environments. 
- d) Both are biodiversity hotspots, hosting an incredible variety of species essential for their ecosystems. 

Explanation:

Explanation:

This analogy is commonly used in ecological studies because:

- Coral reefs host about 25% of marine species despite covering <1% of ocean floor
- Both ecosystems have exceptionally high species density per unit area
- They're both considered biodiversity hotspots.

Q. 76

Read the given passage and answer the questions that follow.

The accelerating pace of climate change is causing unprecedented impacts on global biodiversity. Rising temperatures, shifting weather patterns, and ocean acidification are disrupting ecosystems and pushing species toward extinction. Coral reefs, often called the "rainforests of the sea," have suffered devastating bleaching events due to warmer waters. Similarly, Arctic species like polar bears face habitat loss as sea ice melts. While conservation efforts such as protected areas and breeding programs show promise, scientists warn these measures may be inadequate without addressing root causes like fossil fuel emissions and deforestation. International cooperation, as seen in the Paris Agreement, remains critical to mitigate these threats.

What is causing habitat loss for Arctic species like polar bears?

- a) Deforestation 
- b) Overfishing 
- c) Melting sea ice 
- d) Urbanization 

Explanation:

Explanation:

The passage specifically mentions:





- "Sea ice melts" as the direct cause.
- Polar bears rely on sea ice for hunting seals.

Q. 77

Read the given passage and answer the questions that follow.

The accelerating pace of climate change is causing unprecedented impacts on global biodiversity. Rising temperatures, shifting weather patterns, and ocean acidification are disrupting ecosystems and pushing species toward extinction. Coral reefs, often called the "rainforests of the sea," have suffered devastating bleaching events due to warmer waters. Similarly, Arctic species like polar bears face habitat loss as sea ice melts. While conservation efforts such as protected areas and breeding programs show promise, scientists warn these measures may be inadequate without addressing root causes like fossil fuel emissions and deforestation. International cooperation, as seen in the Paris Agreement, remains critical to mitigate these threats.

What does the passage suggest about current conservation efforts?

- a) They are completely ineffective. 
- b) They may fail without addressing root causes like emissions. 
- c) They have already solved biodiversity loss. 
- d) They focus only on marine species. 

Explanation:

Explanation:

The passage uses qualifying language:

- "Show promise" (positive but limited).
- "Inadequate without addressing root causes" (key limitation).
- Specific root causes mentioned (fossil fuels, deforestation).

Q. 78

Read the given passage and answer the questions that follow.

The accelerating pace of climate change is causing unprecedented impacts on global biodiversity. Rising temperatures, shifting weather patterns, and ocean acidification are disrupting ecosystems and pushing species toward extinction. Coral reefs, often called the "rainforests of the sea," have suffered devastating bleaching events due to warmer waters. Similarly, Arctic species like polar bears face habitat loss as sea ice melts. While conservation efforts such as protected areas and breeding programs show promise, scientists warn these measures may be inadequate without addressing root causes like fossil fuel emissions and deforestation. International cooperation, as seen in the Paris Agreement, remains critical to mitigate these threats.

Which international agreement is mentioned as a key effort to combat climate change?

- a) Kyoto Protocol 
- b) Paris Agreement 
- c) Montreal Protocol 
- d) Geneva Convention 

Explanation:









Explanation:









The Paris Agreement is:





- Specifically named in the text
- Currently the most significant climate agreement





Other agreements are incorrect because:





- (A) Kyoto Protocol is outdated.
- (C) Montreal Protocol deals with ozone.
- (D) Geneva Convention covers warfare.

Q. 79	<p>Read the given passage and answer the questions that follow.</p> <p>The accelerating pace of climate change is causing unprecedented impacts on global biodiversity. Rising temperatures, shifting weather patterns, and ocean acidification are disrupting ecosystems and pushing species toward extinction. Coral reefs, often called the "rainforests of the sea," have suffered devastating bleaching events due to warmer waters. Similarly, Arctic species like polar bears face habitat loss as sea ice melts. While conservation efforts such as protected areas and breeding programs show promise, scientists warn these measures may be inadequate without addressing root causes like fossil fuel emissions and deforestation. International cooperation, as seen in the Paris Agreement, remains critical to mitigate these threats.</p> <p>What is the author's tone in the passage?</p> <p>a) Dismissive </p> <p>b) Satirical </p> <p>c) Urgent yet hopeful </p> <p>d) Indifferent </p>
Explanation:	<p>Explanation:</p> <p>Urgent elements:</p> <ul style="list-style-type: none"> • "Unprecedented impacts" • "Devastating bleaching events" • "Pushing species toward extinction" <p>Hopeful elements:</p> <ul style="list-style-type: none"> • "Conservation efforts show promise" • "International cooperation remains critical"
Q. 80	<p>Select the correct option from the given options to fill in the blank.</p> <p>Hardly had she finished her presentation ____ the audience started applauding.</p> <p>a) than </p> <p>b) when </p> <p>c) then </p> <p>d) while </p>
Explanation:	<p>Explanation:</p> <p>"Hardly...when" is the correct correlative conjunction for sequential actions.</p> <p>Rule: "Hardly had X happened when Y happened."</p>

<p>Q. 81</p>	<p>Identify the error in the sentence: "She was not only late for the meeting but also she forgot to bring the necessary documents."</p> <p>a) for the meeting </p> <p>b) but also she forgot to </p> <p>c) bring the necessary documents. </p> <p>d) She was not only late </p>
<p>Explanation:</p>	<p>Explanation: Parallelism in grammar refers to the use of consistent structure when two or more elements in a sentence are linked by conjunctions like "and," "or," "not only...but also," etc. This ensures that the sentence flows smoothly and is easy to understand.</p> <p>In the original sentence: "She was not only late for the meeting but also she forgot to bring the necessary documents." The issue arises because "was late" (a verb phrase) is not parallel to "she forgot" (a full clause). To correct this, we need to make sure both parts of the sentence have a similar grammatical form. Here's the revised version: "She was not only late for the meeting but also forgot to bring the necessary documents."</p>
<p>Q. 82</p>	<p>Select the option that expresses the given sentence in Indirect speech. The teacher asked, "Why didn't you complete your homework, Ram?"</p> <p>a) The teacher asked Ram why he hadn't completed his homework. </p> <p>b) The teacher asked Ram why didn't he complete his homework. </p> <p>c) The teacher asked Ram why had he not completed his homework. </p> <p>d) The teacher asked Ram why he didn't complete his homework. </p>
<p>Explanation:</p>	<p>Explanation: Interrogative to Assertive: Direct: "Why didn't you...?" → Indirect: "why he hadn't..." (no question mark/inversion).</p> <p>Tense Shift: "Didn't complete" (simple past) → "hadn't completed" (past perfect for past actions).</p> <p>Pronoun/Possessive Change: "You" → "he", "your" → "his" (3rd person for Ram).</p>









Q. 83	<p>Select the option that expresses the given sentence in passive voice.</p> <p>The chef prepared a delicious meal.</p> <p>a) A delicious meal was prepared by the chef. </p> <p>b) A delicious meal is prepared by the chef. </p> <p>c) The chef was prepared a delicious meal. </p> <p>d) A delicious meal has been prepared by the chef. </p>
Explanation:	<p>The correct option is: A delicious meal was prepared by the chef.</p> <p>Explanation:</p> <p>The passive voice structure rearranges the sentence so that the object of the active voice becomes the subject. The basic structure of the passive voice is: Object + Be Verb + Past Participle + (optional Agent introduced by 'by').</p> <p>For the given sentence in active voice: "The chef prepared a delicious meal,"</p> <ul style="list-style-type: none"> • The subject is the chef (doer of the action). • The verb is prepared (past tense of "prepare"). • The object is a delicious meal (receiver of the action). <p>In the passive voice: The object of the active sentence (a delicious meal) becomes the subject. The correct be verb ("was," to match the past tense) is used, followed by the past participle of the verb (prepared). Optionally, the doer (the chef) is added with "by."</p> <p>Hence, the passive form is: A delicious meal was prepared by the chef.</p>









<p>Q. 84</p>	<p>Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.</p> <p>P: Social media platforms have revolutionized communication.</p> <p>Q: Yet, they also spread misinformation rapidly.</p> <p>R: They connect people across the globe instantly.</p> <p>S: This dual impact demands responsible usage.</p> <p>a) PRQS </p> <p>b) PQRS </p> <p>c) RPQS </p> <p>d) RQPS </p>
<p>Explanation:</p>	<p>Explanation:</p> <p>P introduces the topic (social media's impact).</p> <p>R highlights a benefit (global connection).</p> <p>Q contrasts with a drawback (misinformation).</p> <p>S concludes with a call to action (responsible usage).</p>





<p>Q. 85</p>	<p>Select the correct option from the given options to fill in the blank.</p> <p>His reckless spending habits ____ him ____ deep debt.</p> <p>a) drove, towards </p> <p>b) pushed, to </p> <p>c) left, in </p> <p>d) led, into </p>
<p>Explanation:</p>	<p>The correct option is: His reckless spending habits led him into deep debt.</p> <p>Explanation:</p> <p>In this context, "led" refers to causing or guiding someone or something toward a particular state or condition. "Into" is used because it indicates movement or transition into a state, which, in this case, is "deep debt."</p> <p>Why the other options are incorrect:</p> <ol style="list-style-type: none"> 1. "Drove, towards" "Drove" is appropriate for forceful actions, but "towards" suggests direction rather than arriving at a particular state like "deep debt." 2. "Pushed, to" "Pushed" might imply encouragement or pressure, but "to" conveys reaching a point rather than fully entering a state. 3. "Left, in" While "left in deep debt" is grammatically correct, it suggests a passive result rather than the active progression caused by reckless spending habits.

Q. 86	<p>Select the option that expresses the given sentence in Indirect speech. "Alas! I have lost my passport," she cried.</p> <p>a) She cried that she had lost her passport. ✗</p> <p>b) She exclaimed sadly that she lost her passport. ✗</p> <p>c) She exclaimed with sorrow that she had lost her passport. ✓</p> <p>d) She cried alas that she has lost her passport. ✗</p>
Explanation:	<p>Explanation: Exclamatory Emotion: "Alas!" → "exclaimed with sorrow" (must convey emotion). Tense Shift: "have lost" → "had lost" (present perfect → past perfect). Pronoun/Possessive: "my" → "her". No Direct Interjection: "Alas" is removed in indirect speech.</p>

Q. 87	<p>Select the option that expresses the given sentence in passive voice. They will have completed the project by Monday.</p> <p>a) The project will have been completed by Monday by them. ✓</p> <p>b) The project will be completed by Monday by them. ✗</p> <p>c) The project would have been completed by Monday by them. ✗</p> <p>d) The project has been completed by Monday by them. ✗</p>
Explanation:	<p>Explanation: Future perfect active (will have completed) → Future perfect passive (will have been completed). Time phrase (by Monday) retains position.</p>

<p>Q. 88</p>	<p>Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.</p> <p>P: Scientists are now using AI to predict weather patterns.</p> <p>Q: Traditional methods relied on historical data and manual analysis.</p> <p>R: These AI models process vast amounts of data in seconds.</p> <p>S: As a result, forecasts have become more accurate.</p> <p>a) PQRS </p> <p>b) QPRS </p> <p>c) QPSR </p> <p>d) PSRQ </p>
<p>Explanation:</p>	<p>Explanation:</p> <p>Q sets the baseline (traditional methods).</p> <p>P introduces the change (AI in weather prediction).</p> <p>R explains how AI works (data processing).</p> <p>S states the outcome (accurate forecasts).</p>
<p>Q. 89</p>	<p>The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.</p> <p>"One of the students (A) / in our class (B) / have scored (C) / full marks in mathematics. (D) / No Error (E)"</p> <p>a) (A) </p> <p>b) (B) </p> <p>c) (C) </p> <p>d) (D) </p>
<p>Explanation:</p>	<p>Explanation:</p> <p>Subject-Verb Agreement Error: "One of the students" is singular, so the verb should be "has scored" (not "have scored").</p> <p>Why Others Are Correct:</p> <p>(A) "One of the students" → Singular subject.</p> <p>(B) "in our class" → Prepositional phrase (no error).</p> <p>(D) "full marks in mathematics" → Correct noun phrase.</p>

Q. 90	<p>Select the option that expresses the given sentence in passive voice.</p> <p>The authorities must have investigated the fraud case by now.</p> <p>a) The fraud case must have been investigated by the authorities by now. </p> <p>b) The fraud case must be investigated by the authorities by now. </p> <p>c) The fraud case must had been investigated by the authorities by now. </p> <p>d) The fraud case must has been investigated by the authorities by now. </p>
Explanation:	<p>Explanation:</p> <p>Structure:</p> <p>Active: Modal (must) + perfect infinitive (have investigated) → Passive: must + have + been + past participle (investigated).</p> <p>Time marker (by now) remains unchanged.</p> <p>(A) is Correct because:</p> <p>Perfect infinitive (have investigated) → Perfect passive (have been investigated).</p> <p>"Must" remains unchanged (no tense shift for modals in perfect constructions).</p>
Q. 91	<p>Select the correct option from the given options to fill in the blank.</p> <p>The scientist's ____ research ____ a breakthrough in cancer treatment.</p> <p>a) hasty, invented </p> <p>b) vague, produced </p> <p>c) rigorous, yielded </p> <p>d) obsolete, discovered </p>
Explanation:	<p>Explanation:</p> <p>"Rigorous" (thorough) pairs with "yielded" (produced results).</p>





Q. 92	<p>Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.</p> <p>P: However, it requires discipline and consistent effort.</p> <p>Q: Many people aspire to achieve financial independence.</p> <p>R: Without proper planning, it remains a distant dream.</p> <p>S: Investing early can help reach this goal.</p> <p>a) QSPR </p> <p>b) QPRS </p> <p>c) QRSP </p> <p>d) QSRP </p>
Explanation:	<p>Explanation:</p> <p>Q introduces the goal (financial independence).</p> <p>S suggests a method (investing early).</p> <p>P adds a caveat (requires effort).</p> <p>R warns about lack of planning.</p>

Q. 93

Read the given passage and answer the questions that follow.

Ethics in the workplace form the foundation of a healthy organizational culture, fostering trust, accountability, and long-term success. With the rise of remote work and digital communication, ethical challenges such as data privacy, transparency, and fair treatment have become increasingly complex. Companies now emphasize codes of conduct to address issues like discrimination, harassment, and conflicts of interest. Whistleblower policies also encourage employees to report misconduct without fear of retaliation. However, ethical dilemmas often arise in gray areas—such as favoritism in promotions or the use of company resources for personal gain. Experts argue that ethical workplaces require not just policies, but also strong leadership and continuous training to align employee behavior with core values.

What is the main idea of the passage?

- a) Remote work has made workplaces unethical 
- b) Ethics are critical for organizational trust and success 
- c) Companies should eliminate all workplace conflicts 
- d) Whistleblowers are the primary cause of workplace issues 





Explanation:

Explanation:

The opening sentence states ethics are the "foundation of a healthy organizational culture," directly linking them to **trust** and **success**.

Subsequent sentences elaborate on this by discussing policies (codes of conduct), challenges (Gray areas), and solutions (leadership).

Q. 94	<p>Read the given passage and answer the questions that follow.</p> <p>Ethics in the workplace form the foundation of a healthy organizational culture, fostering trust, accountability, and long-term success. With the rise of remote work and digital communication, ethical challenges such as data privacy, transparency, and fair treatment have become increasingly complex. Companies now emphasize codes of conduct to address issues like discrimination, harassment, and conflicts of interest. Whistleblower policies also encourage employees to report misconduct without fear of retaliation. However, ethical dilemmas often arise in gray areas—such as favoritism in promotions or the use of company resources for personal gain. Experts argue that ethical workplaces require not just policies, but also strong leadership and continuous training to align employee behavior with core values.</p> <p>Which workplace issue is not mentioned in the passage?</p> <p>a) Data privacy ❌</p> <p>b) Use of company resources for personal gain ❌</p> <p>c) Conflicts of interest ❌</p> <p>d) Gender pays gaps ✅</p>
Explanation:	<p>Explanation:</p> <p>Data privacy: "Ethical challenges such as data privacy" (Paragraph 1).</p> <p>Conflicts of interest: "Codes of conduct to address... conflicts of interest" (Paragraph 1).</p> <p>Misuse of resources: "Use of company resources for personal gain" (Paragraph 1).</p>





Q. 95	<p>Read the given passage and answer the questions that follow.</p> <p>Ethics in the workplace form the foundation of a healthy organizational culture, fostering trust, accountability, and long-term success. With the rise of remote work and digital communication, ethical challenges such as data privacy, transparency, and fair treatment have become increasingly complex. Companies now emphasize codes of conduct to address issues like discrimination, harassment, and conflicts of interest. Whistleblower policies also encourage employees to report misconduct without fear of retaliation. However, ethical dilemmas often arise in gray areas—such as favoritism in promotions or the use of company resources for personal gain. Experts argue that ethical workplaces require not just policies, but also strong leadership and continuous training to align employee behavior with core values.</p> <p>How do companies support ethical behaviour, according to the passage?</p> <p>a) By ignoring minor violations </p> <p>b) By eliminating all employee training </p> <p>c) Through codes of conduct and whistleblower policies </p> <p>d) Through strict punishment without investigation </p>
Explanation:	<p>Explanation:</p> <p>"Companies now emphasize codes of conduct" (Paragraph 1). "Whistleblower policies encourage employees to report misconduct" (Paragraph 1).</p> <p>Other Options Fail because:</p> <p>(A): Never suggested; minor violations aren't discussed. (C): Contradicts the passage: "continuous training" is explicitly recommended. (D): "Without investigation" is extreme and unsupported. The passage promotes fair reporting, not punishment.</p>

Q. 96

Read the given passage and answer the questions that follow.

Ethics in the workplace form the foundation of a healthy organizational culture, fostering trust, accountability, and long-term success. With the rise of remote work and digital communication, ethical challenges such as data privacy, transparency, and fair treatment have become increasingly complex. Companies now emphasize codes of conduct to address issues like discrimination, harassment, and conflicts of interest. Whistleblower policies also encourage employees to report misconduct without fear of retaliation. However, ethical dilemmas often arise in gray areas—such as favoritism in promotions or the use of company resources for personal gain. Experts argue that ethical workplaces require not just policies, but also strong leadership and continuous training to align employee behavior with core values.

What does the passage suggest about ethical dilemmas?

- a) They are always clear-cut. 
- b) They often occur in "Gray areas". 
- c) They only affect senior leadership. 
- d) They are irrelevant in remote work. 

Explanation:

Explanation:

"Ethical dilemmas often arise in **Gray areas**—such as favouritism in promotions" (Paragraph 1).

Inference Support:

- "Gray areas" imply ambiguity (e.g., Is a small personal use of company Wi-Fi unethical?). These rejects (A).
- The passage doesn't limit dilemmas to leaders (C)—it mentions employee behaviour (e.g., resource misuse).
- Remote work is tied to new ethical challenges (data privacy), making (D) false.

Example:





A manager giving a promotion to a friend might technically meet job criteria (Gray area), but could violate fairness norms.

Q. 97

Read the given passage and answer the questions that follow.

Ethics in the workplace form the foundation of a healthy organizational culture, fostering trust, accountability, and long-term success. With the rise of remote work and digital communication, ethical challenges such as data privacy, transparency, and fair treatment have become increasingly complex. Companies now emphasize codes of conduct to address issues like discrimination, harassment, and conflicts of interest. Whistleblower policies also encourage employees to report misconduct without fear of retaliation. However, ethical dilemmas often arise in gray areas—such as favoritism in promotions or the use of company resources for personal gain. Experts argue that ethical workplaces require not just policies, but also strong leadership and continuous training to align employee behavior with core values.

What role does leadership play in workplace ethics?

- a) It is critical to model and reinforce values. 
- b) It is unnecessary if policies exist. 
- c) It should avoid addressing ethical issues. 
- d) It contributes to most ethical violations. 

Explanation:

Explanation:

"Ethical workplaces require... **strong leadership**" (Paragraph 1).

Leaders must **align employee behaviour with core values**, which goes beyond policies.

Other Options Fail because:

(B): Contradicts the text: Policies alone are "inadequate."

(C): Illogical—leaders are urged to address ethics.





(D): Not supported. While leaders can enable violations, the passage doesn't blame them as the primary source.

Q. 98

Read the given passage and answer the questions that follow.

Ethics in the workplace form the foundation of a healthy organizational culture, fostering trust, accountability, and long-term success. With the rise of remote work and digital communication, ethical challenges such as data privacy, transparency, and fair treatment have become increasingly complex. Companies now emphasize codes of conduct to address issues like discrimination, harassment, and conflicts of interest. Whistleblower policies also encourage employees to report misconduct without fear of retaliation. However, ethical dilemmas often arise in gray areas—such as favoritism in promotions or the use of company resources for personal gain. Experts argue that ethical workplaces require not just policies, but also strong leadership and continuous training to align employee behavior with core values.

Which statement would the author most likely agree with?

- a) Ethics training is a waste of time. 
- b) An ethical workplace requires ongoing effort. 
- c) Whistleblowers harm company morale. 
- d) Remote work eliminates ethical concerns. 

Explanation:

Explanation:

Passage Alignment:

"Continuous training" and "strong leadership" imply **sustained effort** (Paragraph 1).





Challenges like "Gray areas" and "remote work" suggest ethics isn't a one-time fix.





Eliminating Incorrect Options:













(A): Directly contradicts "continuous training."





(C): Whistleblowers are framed positively ("report misconduct without fear").





(D): Remote work *adds* complexity; it doesn't eliminate concerns.





Q. 99	<p>Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.</p> <p>P: It was invented in the 15th century by Johannes Gutenberg.</p> <p>Q: The printing revolution transformed how knowledge was shared.</p> <p>R: Before this, books were handwritten and rare.</p> <p>S: The printing press is one of history's most impactful inventions.</p> <p>a) SPQR </p> <p>b) SQPR </p> <p>c) PSRQ </p> <p>d) QPRS </p>
Explanation:	<p>Explanation:</p> <p>S introduces the topic (printing press).</p> <p>P provides historical context (invention).</p> <p>Q explains its impact (knowledge sharing).</p> <p>R contrasts with the pre-printing era.</p>

Q. 100	<p>Select the most appropriate SYNONYM of the highlighted word.</p> <p>"Meticulous."</p> <p>a) Careless </p> <p>b) Miserable </p> <p>c) Mature </p> <p>d) Precise </p>
Explanation:	<p>Explanation:</p> <p>Meticulous means showing extreme care and precision (e.g., "a meticulous researcher").</p> <p>Precise (exact, accurate) is the closest synonym.</p>

Q. 101	<p>Select the most appropriate ANTONYM of the highlighted word.</p> <p>"Benevolent."</p> <p>a) Kind </p> <p>b) Generous </p> <p>c) Cruel </p> <p>d) Friendly </p>
Explanation:	<p>Explanation:</p> <p>Benevolent means kind and charitable (e.g., "a benevolent leader").</p> <p>Cruel (harsh, unkind) is the direct opposite.</p>
Q. 102	<p>Select the most appropriate meaning of the given idiom.</p> <p>"Burn the midnight oil"</p> <p>a) To waste time </p> <p>b) To work late into the night </p> <p>c) To destroy evidence </p> <p>d) To light a lamp </p>
Explanation:	<p>Explanation:</p> <p>Origin: From the pre-electricity era when people used oil lamps to work at night.</p> <p>Usage: Refers to working hard or studying late (e.g., "She burned the midnight oil to finish her project").</p>
Q. 103	<p>Select the CORRECTLY spelled word.</p> <p>a) Embarrass </p> <p>b) Embarass </p> <p>c) Embaras </p> <p>d) Embarras </p>
Explanation:	<p>Explanation:</p> <p>Rule: Double 'r' and double 's' ("embarrass").</p>

<p>Q. 104</p>	<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 indifferent to pleasure or pain is:</p> <p>a) Stoic </p> <p>b) Hedonist </p> <p>c) Philanthropist </p> <p>d) Optimist </p>
<p>Explanation:</p>	<p>Explanation:</p> <p>Stoic: A stoic is someone who practices stoicism, a philosophy focused on maintaining resilience and self-control in the face of hardships or emotions. Stoics prioritize logic and virtue, striving to remain unaffected by external circumstances, such as pain, pleasure, or misfortune.</p> <p>Hedonist: A hedonist believes that pleasure and happiness are the ultimate goals in life. Hedonism emphasizes seeking enjoyment and avoiding pain as guiding principles. Hedonists often focus on personal gratification and satisfying desires.</p> <p>Philanthropist: A philanthropist is someone who dedicates their time, resources, or money to promote the welfare of others. They aim to improve society through charitable actions, donations, or community support. The term literally means "lover of humanity."</p> <p>Optimist: An optimist has a positive outlook on life, expecting favourable outcomes even in challenging situations. Optimists tend to focus on possibilities and solutions rather than problems, believing in hope and opportunity.</p>

Q. 105	<p>Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.</p> <p>P: But excessive use of pesticides harms soil fertility and human health.</p> <p>Q: Agriculture relies heavily on pesticides to protect crops from pests.</p> <p>R: Organic farming is gaining popularity as a sustainable alternative.</p> <p>S: This has led to a growing demand for organic food worldwide.</p> <p>a) QPRS </p> <p>b) QPSR </p> <p>c) PQRS </p> <p>d) PRQS </p>
Explanation:	<p>Explanation:</p> <p>Q introduces the topic (pesticides in agriculture).</p> <p>P contrasts with a problem (harm from pesticides).</p> <p>R offers a solution (organic farming).</p> <p>S explains the result (demand for organic food).</p>

Q. 106	<p>Akbar's revenue minister, _____, carried out a careful survey of crop yields, prices and areas cultivated for a 10 – year period, 1570 – 1580. On the basis of this data, tax was fixed on each crop in cash.</p> <p>a) Sadullah Khan </p> <p>b) Todar Mal </p> <p>c) Abul Fazl </p> <p>d) Inayatullah Khan Kashmiri </p>
Explanation:	<p>Raja Todar Mal, one of Akbar's trusted ministers and renowned administrators, played a pivotal role in reforming the Mughal revenue system. His contributions were rooted in meticulous planning and detailed data collection.</p> <p>Dahshala System:</p> <p>The Dahshala system, introduced by Todar Mal, was a landmark in revenue administration. This system was based on a thorough survey conducted over a period of 10 years (1570–1580). The survey gathered data on:</p> <ul style="list-style-type: none"> • Crop yields: To understand the productivity of different regions and crops. • Prices: To determine the market value of produce, ensuring fair taxation. • Areas cultivated: To assess the agricultural scope of each region. <p>Based on this information, taxes were fixed on individual crops, and for the first time, were levied in cash rather than in kind. This shift helped streamline the administration and minimized disputes between farmers and officials.</p> <p>Todar Mal's administrative brilliance has earned him a place among Akbar's Navaratnas, or nine jewels, reflecting his indispensable role in governance. His work symbolizes the Mughal emphasis on efficient management and fairness in administration.</p>

Q. 107

Who among the following has been named the winner of 2025 Windham Campbell Prize in the 'non-fiction category'?

a) Anita Desai



b) Anne Enright



c) Sigrid Nunez



d) Rana Dasgupta

**Explanation:**





The correct answer is **Rana Dasgupta**.

Rana Dasgupta, a British author of Indian origin, was awarded the **2025 Windham-Campbell Prize** in the **non-fiction category**. This prestigious prize, administered by Yale University, recognizes exceptional literary contributions and provides recipients with an unrestricted grant of \$175,000 to support their work.

Dasgupta was recognized for his insightful critique of global capitalism, industrialization, politics, and class, as showcased in his acclaimed book, **"Capital: A Portrait of Twenty-First-Century Delhi"**. This book blends reporting and oral history to portray the dramatic transformation of Delhi in the 21st century, reflecting the broader impacts of globalization and economic liberalization.

About the Windham-Campbell Prize

The Windham-Campbell Prize was established in 2013 by Donald Windham in memory of his partner, Sandy Campbell. It honours writers across four categories: fiction, non-fiction, drama, and poetry. The prize aims to provide financial independence to writers, enabling them to focus on their creative pursuits.

Q. 108	<p>The rights mentioned in Part III of the Indian Constitution are termed as ____.</p> <p>a) Foundational Rights </p> <p>b) Fundamental Rights </p> <p>c) Economic Rights </p> <p>d) Legal Rights </p>
Explanation:	<p>The correct answer is Fundamental Rights.</p> <p>The rights outlined in Part III of the Indian Constitution are known as Fundamental Rights. These rights are enshrined as basic human rights that are guaranteed to all citizens of India, irrespective of their caste, religion, gender, or socioeconomic status. They are essential for the development of an individual's dignity and for fostering equality in society.</p> <p>Fundamental Rights are divided into six broad categories:</p> <ol style="list-style-type: none"> 1. Right to Equality (Articles 14–18): Ensures equality before the law and prohibits discrimination. 2. Right to Freedom (Articles 19–22): Includes freedoms like speech, assembly, movement, and association. 3. Right against Exploitation (Articles 23–24): Prohibits forced labour, child labour, and human trafficking. 4. Right to Freedom of Religion (Articles 25–28): Safeguards religious freedom and practices. 5. Cultural and Educational Rights (Articles 29–30): Protects the rights of minorities to preserve their culture and establish educational institutions. 6. Right to Constitutional Remedies (Article 32): Allows citizens to move courts to enforce Fundamental Rights.

Q. 109


Read the given statements and select the correct option.

A. Directive Principles of State Policy consists of all the ideals which the state should follow and keep in mind while formulating policies and enacting laws for the country.

B. It can be enforced by the Judiciary.

C. They can be suspended during a national emergency.

a) Only B 

b) Only C 

c) Both A and C 

d) Only A 

Explanation:

The correct answer is **Only A**.

Explanation:


1. **Statement A:** True The **Directive Principles of State Policy (DPSP)**, enshrined in **Part IV of the Indian Constitution (Articles 36-51)**, embody the ideals and principles that the State must consider while formulating policies and enacting laws. These principles aim to create social and economic conditions under which citizens can lead a good life and establish social justice.
2. **Statement B:** False The Directive Principles are **non-justiciable**, meaning they **cannot be enforced by the judiciary**. They serve as guidelines for the government rather than legally binding provisions, unlike Fundamental Rights, which are enforceable in courts.
3. **Statement C:** False DPSPs **cannot be suspended during a national emergency**. Only **Fundamental Rights** under certain provisions (like Article 19) may be restricted or suspended during a national emergency, not the Directive Principles.

The DPSPs reflect the ideals mentioned in the **Preamble** of the Constitution and the concept of a welfare state. Over time, courts and legislatures have worked to harmonize the Fundamental Rights and the DPSPs to balance individual rights and collective welfare.

Q. 110

Which of the following is/are food as well as fodder crops grown under semiarid climatic conditions sown all over India except in eastern and northeastern regions?

a) Maize 

b) Areca nut 

c) Pulses 

d) Cotton 

Explanation:

The correct answer is **Maize**.

Explanation:

1. **Maize:** Maize is a significant crop cultivated as both a food grain and fodder crop. It thrives in **semi-arid climatic conditions** and is widely sown across India, particularly in regions with less rainfall. It is not predominant in the eastern and northeastern regions because of the high rainfall and different climatic conditions there. Maize serves as a staple diet in various parts of India, while its stalks and leaves are commonly used as fodder for cattle.
2. **Areca Nut:** This is a cash crop predominantly grown in **coastal and humid regions**, especially in states like Karnataka, Kerala, and Assam. It does not grow under semi-arid conditions and is not considered a food or fodder crop.
3. **Pulses:** Pulses, while essential food crops, are not primarily used as fodder. They grow in semi-arid to dry regions but are not typically classified as dual-purpose crops like maize.
4. **Cotton:** Cotton is a cash crop grown in **semi-arid areas**, especially in states like Maharashtra, Gujarat, and Telangana. However, it is not a food or fodder crop.









Maize is unique among the options provided as it serves the dual purpose of being a food grain as well as fodder and thrives under semi-arid conditions, making it distinctively suited to such regions of India.

Q. 111

Which of the following is **INCORRECT** in relation to the Indian political system?a) Parliamentary system of government b) Quasi federal system c) Presidential system of government d) Secular state The correct answer is **Presidential system of government**.**Explanation:****Explanation:**

1. **Parliamentary System of Government:** India follows a **parliamentary system**, as outlined in the Constitution. This system is modelled after the British parliamentary framework, where the President is the nominal head of state, and the Prime Minister, along with the Council of Ministers, holds executive power.
2. **Quasi-Federal System:** The Indian political system is often described as **quasi-federal** because it combines features of both federal and unitary systems. While powers are divided between the central and state governments (federal feature), the central government holds more authority, especially during emergencies (unitary feature).
3. **Presidential System of Government:** This is **incorrect** in the context of India. Unlike the United States, which follows a presidential system where the President is both the head of state and government, India has a parliamentary system where these roles are separated between the President (head of state) and the Prime Minister (head of government).
4. **Secular State:** India is a **secular state**, as declared in the Preamble of the Constitution. This means the state does not favour or discriminate against any religion and ensures freedom of religion for all citizens.





India's political system is characterized by its parliamentary framework, quasi-federal structure, and secular ethos. However, it does not follow a presidential system of governance.

Q. 112	<p>Magnetic field lines represent the path along which _____.</p> <p>a) a free electron would tend to move </p> <p>b) a hypothetical free north pole would tend to move </p> <p>c) a free proton would tend to move </p> <p>d) a hypothetical free south pole would tend to move </p>
Explanation:	<p>The correct answer is: a hypothetical free north pole would tend to move</p> <p>Explanation:</p> <p>Magnetic field lines represent the direction of the magnetic force that would act on a moving magnetic object. These lines show the direction in which the north pole of a magnetic compass needle (or any hypothetical free north magnetic pole) would tend to move if placed in the magnetic field.</p> <ul style="list-style-type: none"> • Magnetic field lines are drawn from the north pole to the south pole of a magnet. So, if you place a free north magnetic pole (like the north pole of a magnet), it would align with these field lines and move in the direction of the field. • The field lines never cross and indicate the orientation of the magnetic force in space.
Q. 113	<p>El-Nino, a climate pattern, is an extension of which of the following?</p> <p>a) East Australian Current </p> <p>b) Warm Equatorial Current </p> <p>c) Equatorial Counter Current </p> <p>d) North Pacific Current </p>
Explanation:	<p>The correct answer is: Warm Equatorial Current</p> <p>Explanation:</p> <p>El Niño is a climate pattern that represents a periodic warming of sea surface temperatures in the central and eastern equatorial Pacific Ocean. This warming significantly affects global weather patterns, including altering rainfall, temperature, and atmospheric pressure systems across the world.</p> <p>El Niño is an extension of the Warm Equatorial Current because it involves the changes in the surface temperatures and currents in the central and eastern Pacific Ocean, which are a part of this larger equatorial current system. During an El Niño event, the warm waters shift, disrupting typical oceanic and atmospheric patterns, which leads to significant global weather changes.</p>

Q. 114**Consider the following statements:**

- 1) Bal Gangadhar Tilak was considered the Father of Indian Unrest by the British colonial authorities.
- 2) Dadabhai Naoroji is known as the Grand Old Man of India and was the first to calculate the national income of India.
- 3) Subhas Chandra Bose went on to lead the Indian National Army (INA) after resigning from the presidency of the Indian National Congress.
- 4) Bhagat Singh was one of the youngest freedom fighters of India and a member of the Hindustan Socialist Republican Association.

Which of the above statements are correct?

- a) 1,2, 3, and 4 
- b) 1, 2, and 3 
- c) 2, 3, and 4 
- d) 1, 3, and 4 

The correct answer is **1, 2, 3, and 4**. All the statements provided are correct.

1) Bal Gangadhar Tilak as the Father of Indian Unrest:

- Bal Gangadhar Tilak was a prominent leader in the Indian independence movement and a strong advocate of Swaraj (self-rule). His assertive nationalism and mass mobilization efforts earned him the title "**Father of Indian Unrest**" from the British colonial authorities. He was one of the first leaders to demand complete independence and popularized the slogan, "Swaraj is my birthright, and I shall have it."

2) Dadabhai Naoroji as the Grand Old Man of India:

- Dadabhai Naoroji, often referred to as the "**Grand Old Man of India**", was a pioneering figure in the Indian freedom struggle. He was the first to calculate India's national income in 1867-68, estimating it at ₹340 crore. His work highlighted the economic exploitation of India under British rule, particularly through his "Drain of Wealth" theory.





Explanation:

3) Subhas Chandra Bose and the Indian National Army (INA):

- Subhas Chandra Bose, after resigning from the presidency of the Indian National Congress in 1939 due to ideological differences, went on to lead the **Indian National Army (INA)**. He played a pivotal role in mobilizing Indian soldiers and civilians in Southeast Asia to fight against British colonial rule. His leadership of the INA and the establishment of the Provisional Government of Free India (Azad Hind) remain significant milestones in India's freedom struggle.

4) Bhagat Singh and the Hindustan Socialist Republican Association (HSRA):

- Bhagat Singh, one of India's youngest and most iconic freedom fighters, was a member of the **Hindustan Socialist Republican Association (HSRA)**. He was deeply influenced by socialist ideologies and played a key role in revolutionary activities, including the Central Legislative Assembly bombing and the assassination of J.P. Saunders to avenge Lala Lajpat Rai's death.

Q. 115	<p>Which of the following statements is correct regarding Eukaryotic cell?</p> <p>I. Size generally small, around 0.1 to 1 μm.</p> <p>II. There is a single chromosome in it.</p> <p>a) Only II </p> <p>b) Both I and II </p> <p>c) Neither I nor II </p> <p>d) Only I </p>
Explanation:	<p>The correct answer is Neither I nor II.</p> <p>Explanation:</p> <p>Eukaryotic cells are characterized by their complex structure and distinct features, which make both statements incorrect.</p> <ol style="list-style-type: none">1. Statement I: Size generally small, around 0.1 to 1 μm This statement is incorrect. Eukaryotic cells are generally larger than prokaryotic cells, with sizes ranging from 10 to 100 μm in diameter. The smaller size mentioned in the statement is typical of prokaryotic cells, such as bacteria, not eukaryotic cells.2. Statement II: There is a single chromosome in it This statement is also incorrect. Eukaryotic cells typically have multiple chromosomes contained within a nucleus. These chromosomes consist of DNA and are organized into a linear structure. In contrast, prokaryotic cells have a single, circular chromosome that is not enclosed within a nucleus.

Q. 116

Which of the following statement regarding Himalaya is correct?

I. The part of the Himalayas lying between Satluj and Kali rivers is known as Kumaon Himalayas.

II. The part lying between Teesta and Dihang rivers is known as Assam Himalayas.

III. The outer-most range of the Himalayas is called the Shiwaliks.

a) Only I and III



b) I, II and III



c) Only II and III



d) Only I and II



Explanation:

The correct answer is **I, II, and III**. All the statements regarding the Himalayas are correct. Here's an explanation:

1. The part of the Himalayas lying between Satluj and Kali rivers is known as Kumaon Himalayas:

- This statement is **correct**. The **Kumaon Himalayas** are a segment of the Himalayan range situated between the **Satluj River in the west** and the **Kali River in the east**. This region predominantly falls within the Indian states of Uttarakhand and parts of Himachal Pradesh.

2. The part lying between Teesta and Dihang rivers is known as Assam Himalayas:

- This statement is also **correct**. The **Assam Himalayas** cover the section of the Himalayas between the **Teesta River** in the west (in Sikkim) and the **Dihang River** (the Brahmaputra in Arunachal Pradesh) in the east. This region includes parts of Arunachal Pradesh and forms the easternmost segment of the Himalayas.





3. The outer-most range of the Himalayas is called the Shiwaliks:

- This statement is **correct**. The **Shiwalik range**, also known as the Outer Himalayas, is the southernmost range of the Himalayan system. It consists of low-altitude hills and extends from the Indus River in the west to the Brahmaputra River in the east. It lies just above the Indo-Gangetic plains.

All three statements accurately describe different aspects of the Himalayas, including their geography and classification.

Q. 117

Eukaryotic organisms can have very complex functions to sustain themselves. At the cellular level, these involve several different types of chemical functions like energy production, metabolism etc. What are the membrane-bound structures called, which are present within the cell to keep each of these functionalities separate?

- a) Cytoplasm 
- b) Plasma gel 
- c) Organelles 
- d) Nucleoid 

Explanation:

The correct answer is **Organelles**.





Explanation:

1. **What are Organelles?** Organelles are specialised, **membrane-bound structures** present within eukaryotic cells. Each organelle is designed to perform a specific function, allowing complex chemical processes like energy production, metabolism, and protein synthesis to occur in isolated environments without interference. This division of labour enhances cellular efficiency and organization.
2. **Examples of Organelles and Their Functions:**
 - **Mitochondria:** Often referred to as the "powerhouse of the cell," mitochondria generate energy in the form of ATP through cellular respiration.
 - **Endoplasmic Reticulum (ER):** Plays a key role in protein and lipid synthesis. The rough ER has ribosomes for protein synthesis, while the smooth ER handles lipid production.
 - **Golgi Apparatus:** Modifies, sorts, and packages proteins and lipids for transport.
 - **Lysosomes:** Contain digestive enzymes to break down waste materials and cellular debris.
 - **Chloroplasts** (in plant cells): Carry out photosynthesis, converting sunlight into chemical energy.
 - **Nucleus:** Stores genetic material (DNA) and regulates cellular activities.

These specialized structures enable eukaryotic cells to perform intricate processes, making them distinct from prokaryotic cells, which lack membrane-bound organelles.

Q. 118

If the meat is cooked above 140°C, which of the following reactions occurs?

- a) Caramelisation 
- b) Maillard reaction 
- c) Emulsification 
- d) Oxidation reaction 

Explanation:

The correct answer is **Maillard reaction**.





Explanation:

Maillard Reaction: When meat is cooked at temperatures above **140°C**, the **Maillard reaction** occurs. This is a complex chemical process between **amino acids** (from proteins) and **reducing sugars**, triggered by heat. The reaction is responsible for the browning of meat and the development of its rich, savoury flavours and appealing aromas. It enhances the sensory qualities of cooked meat, making it more appetizing.

Other Options explained:

- **Caramelisation:** This process involves the browning of **sugars** when heated, usually at temperatures above 160°C. While caramelisation contributes to flavour, it is less relevant to meat, which primarily contains proteins, not high sugar levels.
- **Emulsification:** This refers to the mixing of two immiscible liquids, like oil and water, often facilitated by emulsifiers. It is unrelated to heat-induced reactions in meat.
- **Oxidation reaction:** Oxidation typically involves the interaction of oxygen with other compounds, which can lead to spoilage or rancidity in fats but does not describe the heat-induced browning of meat.

This reaction is central to cooking processes like grilling, roasting, or searing meat, as it produces flavourful compounds and enhances the visual appeal of the food.

Q. 119	<p>The "Dependency Ratio" is a demographic indicator that measures the proportion of the dependent population (children and elderly) to the working-age population. A high dependency ratio indicates:</p> <p>a) A heavy burden on the working-age population to support dependents. </p> <p>b) An increase in the productivity of the working-age population. </p> <p>c) A decrease in the number of working-age people in the population. </p> <p>d) A reduction in the amount of healthcare required by dependents. </p>
Explanation:	<p>The correct answer is: A heavy burden on the working-age population to support dependents.</p> <p>Explanation:</p> <p>The dependency ratio is a key demographic measure that reflects the balance between dependents—children (typically aged 0–14) and the elderly (typically aged 65 and above)—and the working-age population (typically aged 15–64). This ratio is expressed as a percentage or proportion.</p> <p>High Dependency Ratio:</p> <ul style="list-style-type: none">• It implies that there is a larger proportion of dependents relative to the working-age population. This creates a heavier economic burden on the working-age group because they are responsible for supporting both themselves and those who are not economically active (dependents).• This burden often manifests in increased taxation, higher healthcare costs, and more significant social service requirements to care for dependents.

Q. 120

The "Vijayanagara Empire," founded in the 14th century, was a significant South Indian kingdom known for its grand architecture and cultural patronage. Which ruler is often considered the greatest monarch of the Vijayanagara Empire?





- a) Krishnadevaraya 
- b) Kanaka 
- c) Devpala 
- d) Krisna III 









Explanation:

Explanation:

Krishnadevaraya, who ruled from 1509 to 1529, is widely regarded as the greatest monarch of the Vijayanagara Empire. His reign marked the zenith of the empire's power, prosperity, and cultural achievements. Here's why he stands out:



- **Military Successes:**
 - Krishnadevaraya was a brilliant military strategist. He expanded the empire's territory significantly by defeating the Gajapati rulers of Odisha and the Bahmani Sultanate.
 - His campaigns ensured the empire's dominance in South India and safeguarded its borders.
- **Cultural Patronage:**
 - He was a great patron of art, literature, and architecture. His court was adorned with eight legendary poets, known as the *Ashtadiggajas*, who contributed immensely to Telugu literature.
 - The iconic *Hazara Rama Temple* and other architectural marvels in Hampi were constructed during his reign.

Q. 121	<p>Why is it always emphasised NOT to touch any electric switch board with wet hands?</p> <p>a) Water can erode the switchboard. </p> <p>b) Combination of water and our body is a good conductor of electricity. </p> <p>c) Wet hands can fade away the colour coat of the switchboard. </p> <p>d) Wet hands might slip from the switch. </p>
Explanation:	<p>The correct answer is: Combination of water and our body is a good conductor of electricity.</p> <p>Explanation:</p> <ul style="list-style-type: none"> • Water as a Conductor: <ul style="list-style-type: none"> ◦ Pure water is not a good conductor of electricity. However, the water we typically encounter contains dissolved salts and minerals, making it an excellent conductor. ◦ When your hands are wet, they provide a pathway for electric current to flow through your body. • Human Body's Conductivity: <ul style="list-style-type: none"> ◦ The human body is naturally conductive due to its composition of water and electrolytes. Touching an electrical switchboard with wet hands significantly increases the risk of electrocution or electric shock. • Risks: <ul style="list-style-type: none"> ◦ Even a small amount of electric current passing through the body can cause severe harm or injury. Wet hands amplify the danger as they lower the resistance to the flow of electricity.

Q. 122	<p>In March 2025, Union Minister of Science and Technology has announced the completion of genome sequencing of 10,000 isolates of “<i>Mycobacterium tuberculosis</i>” at World TB Day 2025 Summit organized on the occasion of “World TB Day”. World TB Day is annually observed on which of the following dates?</p> <p>a) 21st March </p> <p>b) 24th March </p> <p>c) 27th March </p> <p>d) 29th March </p>
Explanation:	<p>The correct answer is: 24th March</p> <p>Explanation:</p> <p>World Tuberculosis (TB) Day is observed annually on 24th March to raise awareness about the global epidemic of tuberculosis and efforts to eliminate the disease. This date commemorates the discovery of <i>Mycobacterium tuberculosis</i>, the bacterium responsible for TB, by Dr. Robert Koch on 24th March 1882. His groundbreaking discovery paved the way for diagnosing and treating TB effectively.</p> <p>Themes: Each year, a specific theme is chosen to focus on critical aspects of TB eradication. For 2025, the theme is “<i>Yes! We Can End TB: Commit, Invest, Deliver.</i>”</p>
Q. 123	<p>In the year 1925, who extracted lipids from an erythrocyte sample and found that lipid monolayers are good for measuring molecular surface area versus lateral pressure?</p> <p>a) Gorter and Grendel </p> <p>b) Carson and Eccles </p> <p>c) Avery and Buck </p> <p>d) Margulis and Ruska </p>
Explanation:	<p>The correct answer is: Gorter and Grendel</p> <p>Explanation:</p> <p>In 1925, Evert Gorter and François Grendel conducted a groundbreaking experiment that laid the foundation for understanding cell membrane structure. They extracted lipids from erythrocytes (red blood cells) and spread them on a water surface to form a monolayer. By measuring the surface area of this lipid monolayer, they discovered that it was approximately twice the surface area of the erythrocytes themselves.</p>

Q. 124

Which property of an element is inversely related to its ionisation energy?





a) Electronegativity b) Atomic mass c) Atomic radius d) Electron affinity The correct answer is **Atomic radius**.**Explanation:**

Ionization energy refers to the amount of energy required to remove an electron from an atom or ion. The relationship between ionization energy and various properties can be summarized as follows:

- **Electronegativity:** Although electronegativity is related to the tendency of an atom to attract electrons, it doesn't have a straightforward inverse relationship with ionization energy. In fact, elements with high electronegativity tend to have high ionization energies.
- **Atomic mass:** Atomic mass doesn't directly correlate with ionization energy in an inverse way. The ionization energy can vary among elements with similar atomic masses, depending on other factors.
- **Atomic radius:** This is the correct answer. **Atomic radius** is inversely related to ionization energy. As the atomic radius increases, the outer electrons are farther from the nucleus and more shielded by inner electrons, which makes it easier to remove an electron. This leads to a **lower ionization energy**. Conversely, as the atomic radius decreases (as seen when moving across a period), the electrons are closer to the nucleus, experience less shielding, and are harder to remove, resulting in a **higher ionization energy**.
- **Electron affinity:** Electron affinity refers to the energy change when an electron is added to an atom. It is not inversely related to ionization energy. However, elements with high electron affinity tend to have high ionization energies as well, since both properties are linked to the overall ability of an atom to either gain or lose electrons.


So, atomic radius is the property that has an inverse relationship with ionization energy.


Explanation:


Q. 125	<p>The Second Battle of Panipat was fought between the forces of ____.</p> <p>a) Akbar and Hemu </p> <p>b) Humayun and Rana Sanga </p> <p>c) Babur and Rana Sanga </p> <p>d) Akbar and Sher Shah </p>
Explanation:	<p>The correct answer is: Akbar and Hemu</p> <p>Explanation:</p> <p>The Second Battle of Panipat took place on 5th November 1556 between the Mughal forces led by Akbar and his regent Bairam Khan, and the army of Hemu, a Hindu king who had briefly established control over Delhi. This battle was a decisive moment in Indian history, marking the consolidation of Mughal rule under Akbar.</p> <p>Key Details:</p> <ol style="list-style-type: none"> Background: <ul style="list-style-type: none"> After the death of Mughal Emperor Humayun in January 1556, his son Akbar ascended the throne at the age of 13. Hemu, a capable military leader, took advantage of the situation and defeated the Mughal forces at the Battle of Tughlaqabad, capturing Delhi and crowning himself as <i>Samrat Hem Chandra Vikramaditya</i>. The Battle: <ul style="list-style-type: none"> Akbar's forces, under the command of Bairam Khan, marched to reclaim Delhi. The two armies clashed at Panipat, where Hemu's army initially had the upper hand due to its numerical superiority and war elephants. However, during the battle, Hemu was struck by an arrow and fell unconscious. This led to chaos among his troops, ultimately resulting in their defeat. Outcome: <ul style="list-style-type: none"> The Mughal forces emerged victorious, and Hemu was captured and executed. This victory solidified Akbar's position as the ruler of the Mughal Empire and marked the beginning of his long and illustrious reign.


Q. 126

An electric fan of resistance 110 ohms is plugged into potential difference of 220 V. How much current flows through the fan?

a) 2A 

b) 1/2A 

c) 1/4A 

d) 4 A 

Explanation:

The correct answer is: **2 A**

Explanation:

To calculate the current flowing through the fan, we use **Ohm's Law**, which is expressed as:

$$\Rightarrow I = \frac{V}{R}$$

Where:

- **I** is the current in amperes (A),
- **V** is the potential difference (voltage) in volts (V),
- **R** is the resistance in ohms (Ω).





Substituting the given values:





- $V = 220 \text{ V}$
- $R = 110 \Omega$





We get: $I = 220/110 \Rightarrow 2 \text{ A}$

Conclusion:

The current flowing through the fan is **2 amperes (A)**.





Q. 127	<p>Which film won the “Best picture (drama)” award at the Golden Globes 2025?</p> <p>a) Conclave </p> <p>b) Dune: Part Two </p> <p>c) The Brutalist </p> <p>d) A Complete Unknown </p>
Explanation:	<p>The correct answer is: The Brutalist</p> <p>Explanation:</p> <p>At the Golden Globes 2025, <i>The Brutalist</i> won the award for Best Motion Picture (Drama). Directed by Brady Corbet, the film was celebrated for its compelling narrative and artistic execution. Adrien Brody, the lead actor, also received the award for Best Actor in a Drama, further highlighting the film's excellence.</p> <p>The other options—<i>Conclave</i>, <i>Dune: Part Two</i>, and <i>A Complete Unknown</i>—were nominated but did not win in this category.</p>

Q. 128	<p>Which one of the following folk dance is wrongly matched with the state where it is performed?</p> <p>a) Dashavatar – Goa and Konkan region </p> <p>b) Jatra – West Bengal and Odisha </p> <p>c) Mudi yettu – Tamil Nadu </p> <p>d) Krishnanattam – Kerala </p>
Explanation:	<p>The correct answer is: Mudi yettu – Tamil Nadu</p> <p>Explanation:</p> <p>The folk dance Mudi yettu is incorrectly matched with Tamil Nadu. In reality, Mudi yettu is a ritualistic dance drama from Kerala, closely linked with the worship of Goddess Kali and the depiction of her triumph over the demon Darika. It is performed in temples and is recognized as an Intangible Cultural Heritage by UNESCO.</p> <p>Correct Matches:</p> <ul style="list-style-type: none"> • Dashavatar – Goa and Konkan region: This classical dance drama represents the ten incarnations of Lord Vishnu and is popular in Goa and the Konkan region of Maharashtra. • Jatra – West Bengal and Odisha: A traditional form of theatre that combines music, drama, and dance, popular in both West Bengal and Odisha. • Krishnanattam – Kerala: A dance drama performed in Kerala that narrates stories from the life of Lord Krishna, originating from the Guruvayur Temple.

Q. 129	<p>In March 2025, which of the following states has signed a Memorandum of Understanding (MoU) with United Nations Educational, Scientific and Cultural Organization (UNESCO) to enhance the quality of education in the state?</p> <p>a) Himachal Pradesh </p> <p>b) Uttarakhand </p> <p>c) Arunachal Pradesh </p> <p>d) Sikkim </p>
Explanation:	<p>The correct answer is: Himachal Pradesh</p> <p>Explanation:</p> <p>In March 2025, the Himachal Pradesh Government signed a Memorandum of Understanding (MoU) with the United Nations Educational, Scientific and Cultural Organization (UNESCO) to enhance the quality of education in the state.</p> <p>The collaboration aims to strengthen teaching methods, curricula, teacher training, and assessment systems. It focuses on equipping students with 21st-century skills such as critical thinking, creativity, collaboration, and communication.</p> <p>This agreement reflects Himachal Pradesh's commitment to providing global-standard education and preparing students for future challenges.</p>

Q. 130

Which of the following is an inosilicate amphibole mineral used in highway construction and as railroad ballast?

- a) Shale 
- b) Olivine 
- c) Geyserite 
- d) Hornblende 

The correct answer is: **Hornblende**

Explanation:

Hornblende is an **inosilicate amphibole mineral** that is commonly used in highway construction and as railroad ballast due to its durability and strength. It belongs to the broader family of amphibole minerals, which are defined by their chain-like silicate structure.

Key Characteristics:

Explanation:

- **Composition:**
 - Hornblende is primarily composed of calcium, sodium, magnesium, iron, aluminum, and silicon. Its variable composition makes it versatile for construction purposes.
- **Physical Properties:**
 - It is tough and resistant to weathering, making it ideal for use in infrastructure projects where stability and longevity are essential.
- **Applications:**
 - Used as crushed stone in highway construction to provide stability.
 - Functions as ballast in railroads, helping to evenly distribute weight and maintain the track's structure.