RBE SSC CGL 2025 Live Mock-29 August 17,2025

Q. 1 A company is hiring a Senior Analyst and has laid down the following selection criteria:

Eligibility Conditions:

- 1. The candidate must have either an MBA or a Master's in Economics, but not both.
- 2. The candidate must have at least 2 years of work experience, unless they have scored 90% or above in their graduation.
- 3. Candidates with a career or education gap exceeding 1 year are not eligible, regardless of other qualifications.
- 4. The candidate must have knowledge of Data Analytics Tools (e.g., Power BI, Tableau, or Python).
- 5. If the candidate has less than 80% in graduation, they must also have a professional certification in Business Analysis to be considered.

Candidate	Degrees	Graduation %	Experience	Gap	Tools Known	Certification
A	MBA	92%	3 yrs	0.5 yrs	Tableau	No
В	Master's in Economics	91%	1 yr	2 yrs	Power BI	Yes
С	MBA, Master's in Eco	93%	4 yrs	None	Python	No
D	МВА	77%	1.5 yrs	None	Power BI, Python	Yes

a) Only A

b) Only D

c) A and D

d) A, B and D

Why A is Eligible:

- MBA only
- Graduation: 91% <a>✓ (so experience not compulsory)
- Experience: 3 years 🗸
- Gap: 0.5 year 🔽
- Tool: Tableau 🗸
 - → Meets all conditions

Statement:

Playing with mud and butterflies in a garden is more beneficial for small children than watching academic videos on computers or mobile phones.

Conclusions:

- I. Mobile phones and computers are harmful for small children.
- II. Real experiences are more beneficial than virtual experiences for children's development.
- a) Only conclusion II follows.



b) Neither conclusion follows.



c) Both the conclusions follow.



d) Only conclusion I follows.



Explanation:

Conclusion I

Mobile phones and computers are harmful for small children.

• **Does not follow.** The statement only says that **playing in nature is more beneficial** than watching academic videos. It does **not** claim that mobile phones or computers are **harmful**—just **less beneficial** in comparison.

Explanation:

Conclusion II

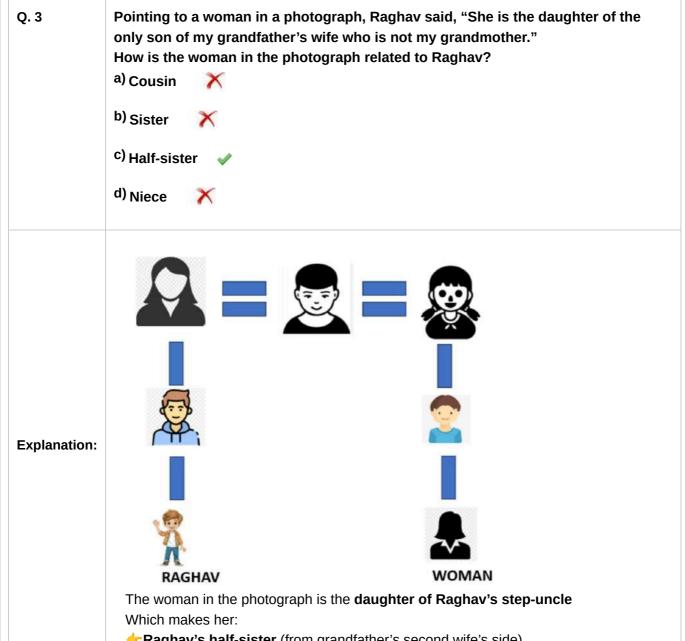
Real experiences are more beneficial than virtual experiences for children's development.

• **Follows.** The statement clearly compares **real experiences** (mud and butterflies) with **virtual ones** (academic videos) and says the former are **more beneficial**.

Correct Answer: Only conclusion II follows.

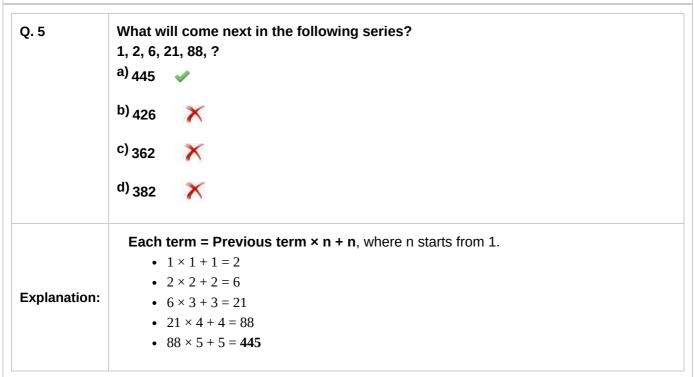
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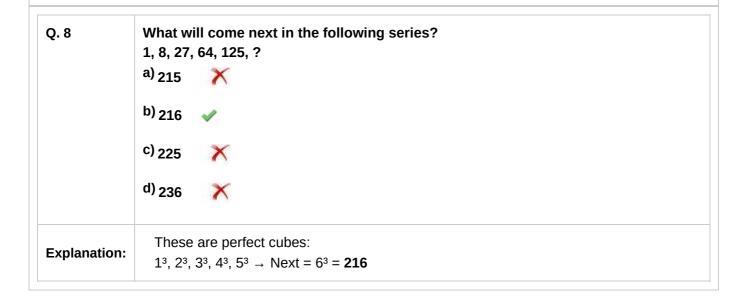
Comparison of the Comparison of the Comparison

Q. 4	Find the wrong number in the following series: 3, 8, 15, 24, 35, 47, 63 a) 24
	b) 35 ×
	c) 47 🧳
	d) 63 ×
	n² – 1 pattern:
	$2^2 - 1 = 3$
	$3^2 - 1 = 8$
	$4^2 - 1 = 15$
Explanation:	$5^2 - 1 = 24$
	$6^2 - 1 = 35$
	$7^2 - 1 = 48 \rightarrow \text{ but here it is } 47 \times$
	$8^2 - 1 = 63$
	So wrong number = 47



Q. 6	Oath : Honesty :: Contract : ? a) Promise
	b) Legality 🗳
	c) Signature 🔀
	d) Agreement
Explanation:	An oath ensures honesty A contract ensures legality

Q. 7	If HOUSE = IPWVF, then how is TRUTH coded? a) USVUI b) USWWI c) USVVJ d) VTUVI
Explanation:	Pattern = +1, +1, +2, +3, +1 • T +1 = U (21) • R +1 = S (19) • U +2 = W (23) • T +3 = W (23) • H +1 = I (9)



Q. 9	A, C, E, H, K, ?, ? a) M, O
	b) M, Q
	c) o, s 🗸
	d) N, Q
	• A(1) → C(3): +2
	• $C(3) \rightarrow E(5)$: +2
	• $E(5) \rightarrow H(8)$: +3
Explanation:	• H (8) → K (11): + 3
•	Now continuing the same logic:
	• $K(11) \rightarrow \text{next: } +4 = 15 \rightarrow O$
	• O (15) \rightarrow next: +4 = 19 \rightarrow S

Statements:

All players are athletes.

All athletes are hardworking.

Some hardworking are honest.

Conclusions:

- I. All players are hardworking.
- II. Some honest are athletes.
- a) Only I follows



b) Only II follows

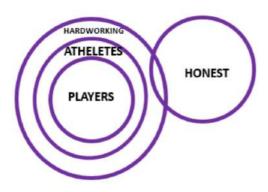


c) Both follow



d) Neither follows





Conclusion I – All players are hardworking:

From Statement 1 and 2:

Explanation:

- All players \rightarrow athletes
- All athletes → hardworking

So, by transitive logic:

All players → hardworking



Hence, Conclusion I follows.

Conclusion II - Some honest are athletes:

From Statement 3, we only know:

- **Some hardworking are honest** → partial overlap
- But we do **not know** whether those **honest** people are from the **athlete** group or not.

So, this is **not definite** — it's a **possibility**, not a conclusion.

Hence, Conclusion II does NOT follow.

Statements:

- i. I have not yet read all the seven Harry Potter books
- ii. I have read all the Jane Austen books
- iii. I don't like reading self-help books even though I have read a few of them just to try something new

Conclusions:

- i. Though book reading is my hobby, I am very selective about the books I read
- ii. I have read some of the Harry Potter books
- iii. I like to experiment while selecting my next book to read
- a) Only conclusion (iii) follows



b) Only conclusion (i) and (iii) follow



c) Only conclusion (ii) and (iii) follow



d) Only conclusion (i) follows



Only conclusion (ii) and (iii) follow Explanation:

- 1. **Conclusion (i)** "Though book reading is my hobby, I am very selective about the books I read"
 - Nowhere in the statements is it explicitly mentioned that book reading is the hobby, nor that the person is *very selective*—so this does not necessarily follow.
- 2. Conclusion (ii) "I have read some of the Harry Potter books"
 - Statement (i) says: "I have not yet read all the seven Harry Potter books" → this means some (but not all) have been read, so **this follows**.
- 3. Conclusion (iii) "I like to experiment while selecting my next book to read"
 - Statement (iii) says: "I don't like reading self-help books even though I have read a
 few of them just to try something new" → shows willingness to experiment, so this
 follows.

Statement:

Sustainability can be defined as the practice of meeting the needs of the current generation without degrading or destroying the natural resources (e.g. water, soil, biodiversity, oil, minerals).

Assumptions:

- I. Our lives and economies are dependent on natural capital, which is made up of these natural resources and natural services, and the energy provided by the sun.
- II. Just as every investor knows, we should invest our capital and live off on the interest, or income, it provides. To live sustainable, we need to do the same; protect our natural capital and live off our biological income.
- a) Only assumption II is implicit



b) Only assumption I is implicit



c) Neither assumption I nor II is implicit



d) Both assumptions I and II are implicit

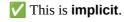


Explanation:

Assumption I:

Our lives and economies are dependent on natural capital (natural resources + services + sun's energy).

• For the statement to make sense, there has to be an underlying belief that these resources are important for our survival and economy — otherwise, preserving them would not be relevant.



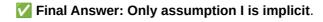
Explanation:

Assumption II:

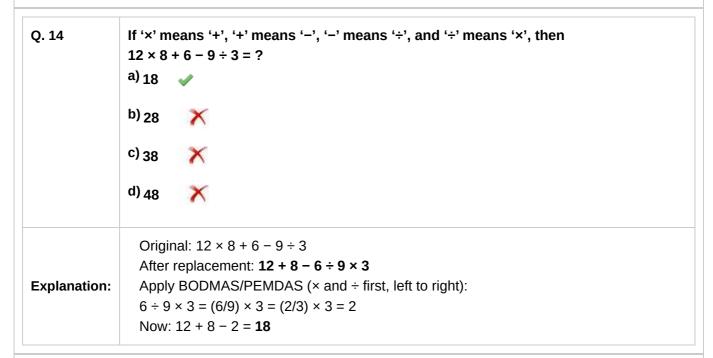
We should invest our capital and live off the interest; similarly, protect natural capital and live off biological income.

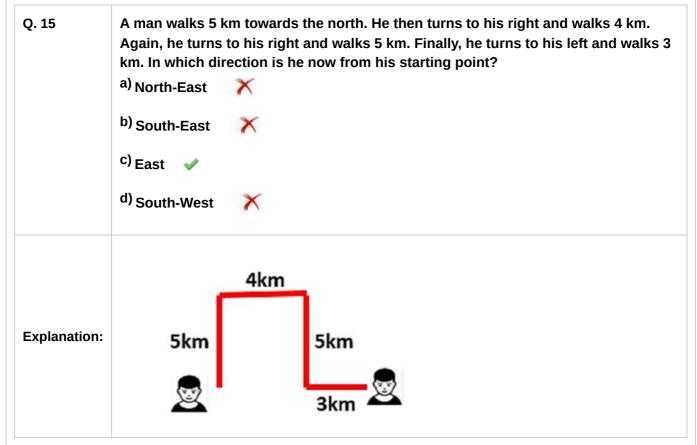
- This is *an analogy* or a *method* for sustainability, but the statement does not rely on this analogy to define sustainability.
- The definition given does **not** assume this investor principle it's just one way of explaining or practicing sustainability, but it's not necessary to assume it for the definition to hold.

X This is **not implicit**.

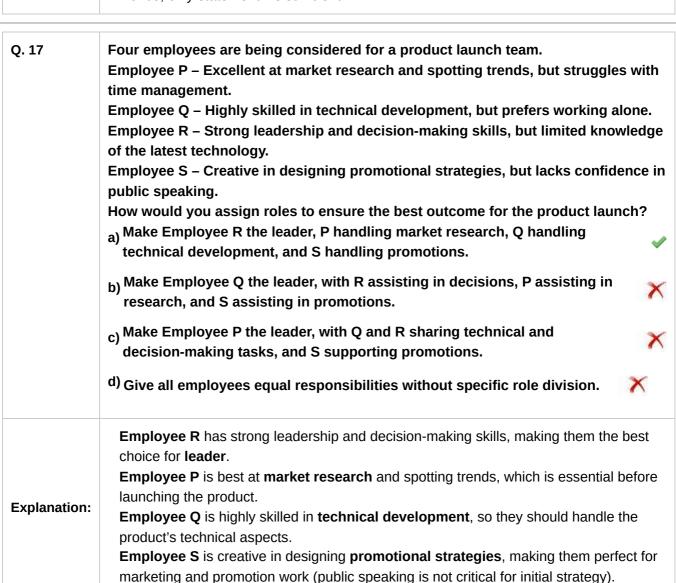


Q. 13	Choose the option that is different from the rest: a) Decagon
	b) Dodecagon 🔀
	c) Nonagon
	d) Heptagon 🕜
Explanation:	Sides: 10, 12, 9 are composite ; 7 (Heptagon) is prime





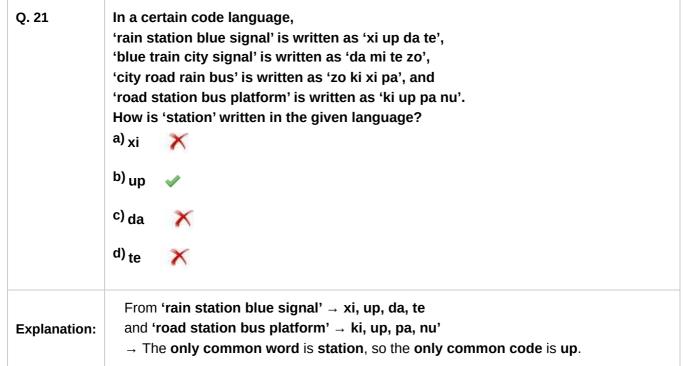
What is 40% of a number? Q. 16 Statement: I. 25% of that number is 60 less than that number. II. 25% of that number is an even number. III. 5% of double of that number is 1/10 of that number. a) Only statement I is sufficient b) Both II and III are sufficient c) Statement II and Either I or III are sufficient d) Only III is sufficient Let number = xAccording to the question, $x \times 25/100 = x - 60$ $x/4 = x - 60 \Rightarrow 3x/4 = 60$ **Explanation:** x = 80Then, 40% of $x = 80 \times (40/100) = 32$ Hence, only statement I is sufficient.



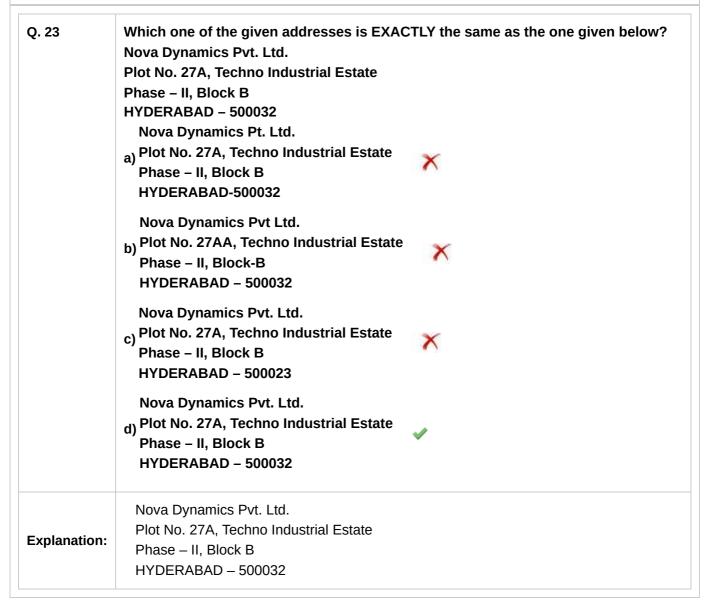
Q. 18	You are the leader of a team working on a high-priority project. One of your best performers has made a serious mistake that could delay the project by a week. Your manager is looking for someone to blame. You will: a) Blame the team member to save yourself b) Take responsibility as the leader and work on a solution c) Hide the mistake hoping no one will notice d) Shift the task to another team quietly
Explanation:	 B. Take responsibility as the leader and work on a solution This reflects integrity, accountability, and effective leadership—qualities essential in high-stakes environments.



Q. 20	You are a police officer. A violent protest is going on, and you receive intelligence that a group is planning to set fire to a crowded marketplace. You have limited force with you and can either protect the marketplace or arrest the protest leaders before they reach there — but not both. What will you do? a) Protect the marketplace directly to save lives and property.
	b) Arrest the leaders to weaken the protest, even if the market remains vulnerable.
	c) Call for backup and wait, risking both actions being too late.
	d) Try to negotiate with protestors to buy time.
Explanation:	Immediate protection of life and property takes priority over long-term disruption plans. Arrests can be made later; preventing immediate harm is urgent.
Q. 21	In a certain code language,
	'rain station blue signal' is written as 'xi up da te',
	'blue train city signal' is written as 'da mi te zo',
	'city road rain bus' is written as 'zo ki xi pa', and
	city toau failt bus is written as 20 ki xi pa , and



Q. 22	Evaluate the following expression: $ 9 \times 7 - 4 \times 12 \div 3 + 8 \mod 17$ a) 3
	b) 4 🕜
	c) 5 ×
	d) 6 ×
	9 × 7 = 63 divide: 12 ÷ 3 = 4
Explanation:	multiply: $4 \times 4 = 16$ Expression $\Rightarrow 63 - 16 + 8 = 55 = 55$
	55 mod 17 = 4



An electronic device rearranges numbers step-by-step in a particular order according to a set of rules. The device stops when the final result is obtained. In this case the device stops at Step V.

Input: 85 16 36 04 19 97 63 09 Step I: 97 85 16 36 04 19 63 09 Step II: 97 85 63 16 36 04 19 09 Step III: 97 85 63 36 16 04 19 09 Step IV: 97 85 63 36 19 16 04 09 Step V: 97 85 63 36 19 16 09 04

Study the above arrangement carefully and then answer the following questions:

1. Which of the following will be Step III for the input below?

Input: 09 25 16 30 32 18 17 06 a) 32 30 25 09 16 18 17 06

b) 32 30 09 25 16 18 17 06

c) 32 09 25 16 18 17 06 30

d) 32 09 25 16 30 18 17 06

Pattern in the Example

- The device rearranges numbers **step-by-step** in **descending order**.
- In **Step I**, it finds the **largest number** from the whole list and moves it to the **first position**.
- In **Step II**, it finds the **next largest number** from the remaining positions and moves it to the **second position**.
- In **Step III**, it finds the **third largest** and places it in the **third position**.
- This process continues until all numbers are arranged in **descending order**.

Important:

Explanation:

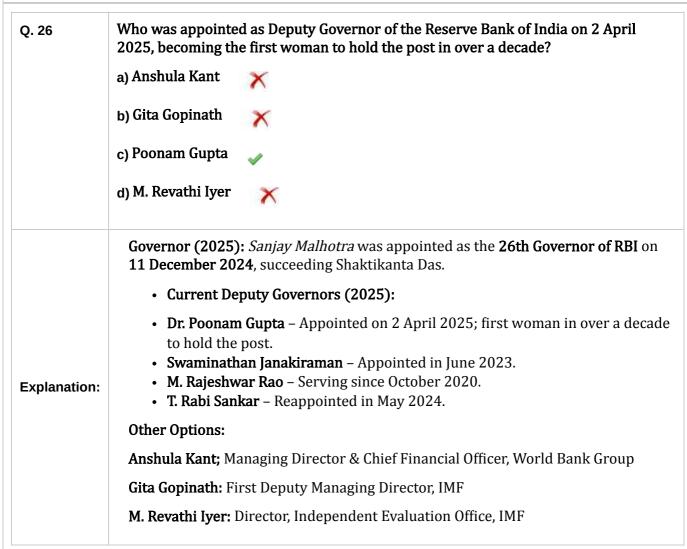
- Only one number is placed in its correct position per step.
- The rest remain in their order unless shifted due to the move.

Input: 09 25 16 30 32 18 17 06

- **Step I:** Largest number = **32**, move to position 1. 32 09 25 16 30 18 17 06
- **Step II:** Second largest = **30**, move to position 2. 32 30 09 25 16 18 17 06
- Step III: Third largest = 25, move to position 3.
 32 30 25 09 16 18 17 06

This matches option (a).

Q. 25	In a certain code language: MARCH → JETBO PLANE → FPBNR How will AUGUST be coded? a) VUVIVB
	b) WTVJVB X
	d) UVVIVB
Explanation:	First reverse the word. Then change each letter: vowel \rightarrow next letter (+1) , consonant \rightarrow +2 letters in the alphabet (wrap after Z). AUGUST \rightarrow TSUGUA \rightarrow T \rightarrow V, S \rightarrow U, U \rightarrow V, G \rightarrow I, U \rightarrow V, A \rightarrow B \rightarrow VUVIVB



Which of the following Statement/s is Correct about the Article 85 clause 1?

- 1. The President of India shall summon each House of Parliament from time to time.
- 2. Maximum gap between two sessions of Parliament must not exceed six months.
- 3. Ensures regular functioning of the Rajya Sabha.
- 4. Dissolve the Lok Sabha (House of the People), leading to general elections.
- a) 1 and 2 only



b) 1 & 3 only



c) 1, 2 & 4 only



d) 1 & 3, 4 only



Correct Answer: A) 1 and 2 only

Explanation:

- Statement 1 Correct: Article 85(1) states that the President of India shall summon each House of Parliament from time to time.
- **Statement 2 Correct:** The **maximum gap between two sessions** of Parliament cannot be more than **six months**.
- **Statement 3 Incorrect:** While it results in regular sittings of both Houses (including Rajya Sabha), the Article does not specifically ensure *only* the functioning of Rajya Sabha.
- **Statement 4 Incorrect:** The power to **dissolve the Lok Sabha** is mentioned in **Article 85(2)**, not Clause 1.

Consider the following statements regarding the Government of India Act, 1919. Which of the statements given below is/are incorrect?

- 1. The Act introduced dyarchy at the central level, dividing subjects between British and Indian ministers.
- 2. It led to the establishment of bicameral legislature at the centre for the first time in British India.
- 3. The Act was based on the recommendations of the Simon Commission.
- 4. Under dyarchy, subjects like education and health were classified as reserved subjects.
- a) Only 3 & 4



b) Only 1 & 4



c) Only 2 & 4



d) Only 1, 3 & 4



The Correct Answer is: d) Only 1, 3 & 4

Explanation:

(1) Dyarchy at the central level – This is incorrect. The Act introduced dyarchy **only at the provincial level**, not at the centre. Provinces were divided into *reserved* and *transferred* subjects, handled respectively by British officials and Indian ministers.

Explanation:

- **(3) Based on Simon Commission** Also incorrect. The 1919 Act was based on the **Montagu-Chelmsford Report (1918)**. The Simon Commission came much later, in **1927**, and had no role in shaping this Act.
- **(4) Education and health as reserved subjects** Incorrect again. These were classified as **transferred subjects**, meaning Indian ministers had control over them. *Reserved subjects* included areas like law and order, finance, and irrigation.

Correct Statement:

(2) The Act did introduce a **bicameral legislature at the central level** for the first time in British India, with the **Council of State** and **Legislative Assembly**.

How many of the following author-book pairs are correctly matched?

- 1. Interpreter of Maladies Jhumpa Lahiri
- 2. An Era of Darkness Shashi Tharoor
- 3. The Immortals of Meluha Amish Tripathi
- 4. Heart Lamp Banu Mushtaq
- a) Only two



b) Only Three



c) All of these



d) Only one



Let's verify each author-book pair carefully:

1. Interpreter of Maladies – Jhumpa Lahiri

Correct. This Pulitzer Prize-winning collection of short stories was published in 1999 and explores the lives of Indian and Indian-American characters navigating cultural displacement.

2. An Era of Darkness - Shashi Tharoor

Correct. A powerful critique of British colonialism in India, this book was published in 2016 and is one of Tharoor's most acclaimed works.

Explanation:

3. The Immortals of Meluha – Amish Tripathi

Correct. The first book in the Shiva Trilogy, published in 2010, it reimagines Lord Shiva as a mortal hero. Amish Tripathi's debut novel became a massive bestseller.

✓ 4. Heart Lamp – Banu Mushtaq

Correct. This 2025 International Booker Prize-winning collection of short stories, originally written in Kannada, was authored by Banu Mushtaq and translated by Deepa Bhasthi.

V Final Answer: All

All four author-book pairs are correctly matched.

Q. 30	Who became the 87 th Grandmaster of India?
	a) Harikishanna A Rao
	b) L R Srihari
	c) P. Shyaamnikhil
	d) D. Gukesh
	The 87th Grandmaster of India is // Harikrishnan A. Ra (Tamil Nadu).
	He earned his final GM norm at the La Plagne International Chess Festival in Franc in July 2025, completing a remarkable seven-year journey from International Master to Grandmaster.
	86th : L.R. Srihari (Tamil Nadu)
Explanation:	85th : P. Shyaamnikhil (Tamil Nadu)
	84th : Vaishali Rameshbabu (Tamil Nadu)
	First Grandmaster from India was Vishwanath Anand (Tamil Nadu) in 1988.
	Autobiography: Mind Master



Statement: The Ring of Fire is associated with a series of volcanic arcs and oceanic trenches in the Pacific Ocean basin.

Question: Which of the following statements is/are correct regarding the Ring of Fire?

- 1. It is home to over 75% of the world's active and dormant volcanoes.
- 2. It is caused by the subduction of oceanic plates beneath continental plates.
- 3. The Andes mountain range is not part of the Ring of Fire.
- a) only 1 and 2
- b) 2 and 3 only
- X
- c) 1 and 3 only
- X
- d) 1, 2 and 3
- X

Correct Statements:

1. It is home to over 75% of the world's active and dormant volcanoes.

✓ Correct.

- The Ring of Fire is the most seismically and volcanically active zone in the world.
- It hosts **around 75% of the Earth's active and dormant volcanoes**, stretching over 40,000 km around the Pacific Ocean.
- 2. It is caused by the subduction of oceanic plates beneath continental plates.

Correct.

- The Ring of Fire is shaped by **plate tectonics**, especially **subduction zones** where oceanic plates (like the Pacific Plate) dive beneath continental plates (e.g., the North American, South American, and Eurasian Plates).
- This subduction leads to intense volcanic and earthquake activity.
- X Incorrect Statement:
- 3. The Andes mountain range is not part of the Ring of Fire.
- X Incorrect.
 - The Andes mountain range is very much part of the Ring of Fire.
 - It was formed due to the **subduction of the Nazca Plate beneath the South American Plate**, which is a classic Ring of Fire process.
 - Countries like **Chile**, **Peru**, **and Ecuador** experience frequent volcanic and seismic activity due to this.
- Correct Answer:

Statements 1 and 2 only.

Which of the following statements about the Gayatri Mantra is incorrect?

- 1. The Gayatri Mantra is dedicated to Savitr, the Vedic solar deity, as found in Rigveda Mandala 3, Hymn 62, Verse 10.
- 2. The mantra was originally composed by Rishi Vishvamitra, one of the most revered sages of the Vedic era.
- 3. The original Rigvedic mantra personifies Gayatri as a goddess and is dedicated to her divine form.
- 4. The mantra invokes Savitr's divine light to illuminate and guide the intellect.
- a) Only 1
- X
- b) Only 2
- X
- c) Only 3
 - •
- d) None



The incorrect statement is: Only 3

Here's why:

- 1. Statement 1 is correct: The Gayatri Mantra is indeed found in Rigveda Mandala 3, Hymn 62, Verse 10, and it is dedicated to **Savitr**, the Vedic solar deity who represents the divine light and inspiration of the sun.
- 2. Statement 2 is correct: The mantra is traditionally attributed to Rishi Vishvamitra, one of the most revered sages in Vedic literature. He is credited with revealing this mantra to the world.
- 3. X Statement 3 is incorrect: The original Rigvedic mantra does not personify Gayatri as a goddess. In its earliest form, "Gayatri" refers to the metrical structure (a 24-syllable meter) of the verse. The deification of Gayatri as a goddess came much later in post-Vedic traditions, especially in Puranic literature.
- 4. Statement 4 is correct: The mantra invokes the divine light of Savitr to illuminate and guide the intellect—this is the essence of its spiritual significance.

So, the correct answer is: Only 3.

The Constitutional Amendment Act that introduced safeguards against the misuse of proclamation of national emergency is:

- a) 42nd Amendment Act
- X
- b) 43rd Amendment Act
- X
- c) 44th Amendment Act
- **V**
- d) 45th Amendment Act



The Correct Answer is: C)

44th Amendment Act (1978)

- Introduced safeguards against Emergency misuse.
- Replaced "internal disturbance" with "armed rebellion".
- Protected **Articles 20 and 21** even during Emergency.
- Required Parliamentary approval within one month.

× 42nd Amendment Act (1976)

- Known as the "Mini Constitution" due to its extensive changes.
- Strengthened central authority and curtailed judicial review.
- Allowed suspension of many Fundamental Rights during Emergency.
- Ironically, it **enabled** misuse of Emergency powers—prompting later reforms.

Explanation:

X 43rd Amendment Act (1977)

- Reversed some provisions of the 42nd Amendment.
- Restored powers of the judiciary and removed restrictions on judicial review.
- Part of the post-Emergency corrective measures.

× 45th Amendment Act (1980)

- Related to reservation of seats for SCs and STs in Lok Sabha and State Assemblies.
- Extended the reservation period beyond 1980.

So, among these, **only the 44th Amendment Act** directly addressed **Emergency misuse**.

Which general, who commanded the British forces against the Americans in their war of independence later became Governor-General of India?

- a) Dalhousie
- b) William Bentinck



c) Wellesley



d) Cornwallis



The correct answer is: **Cornwallis**

Explanation:

Lord Charles Cornwallis was the British general who commanded forces against the Americans during the **American War of Independence**. He is most famously known for his **surrender at the Battle of Yorktown in 1781**, which marked a decisive end to major hostilities in the war.

Later, Cornwallis served as the Governor-General of India from 1786 to 1793, and again briefly in 1805. His tenure in India is notable for:

Explanation:

- Introducing the **Cornwallis Code**, which reformed the administrative and judicial systems.
- Implementing the **Permanent Settlement of Bengal**, a land revenue system.

Other Options:

- Dalhousie: Governor-General of India (1848–1856); known for the Doctrine of Lapse and modernization efforts.
- William Bentinck: Governor-General (1828–1835); known for social reforms like abolishing Sati.
- Wellesley: Governor-General (1798–1805); expanded British territories through wars and diplomacy.

Only Cornwallis fits both roles: a British general in the American Revolution and later Governor-General of India.

Q. 36	Which of the following is NOT a property of heavy water?
	a) Boiling point of heavy water is lower than that of ordinary water
	b) Density of heavy water is higher than that of ordinary water
	c) Freezing point of heavy water is higher than that of ordinary water
	d) It produces corrosion
	The correct answer is: a) Boiling point of heavy water is lower than that of ordinary water
	X This statement is incorrect.
	✓ Verified Properties of Heavy Water (D₂0):
Explanation:	 Boiling Point: Higher than ordinary water Heavy water boils at 101.4°C, while ordinary water boils at 100°C. Density: Higher than ordinary water
	 Density: Figher than ordinary water D₂O has a density of 1.107 g/mL, compared to H₂O's 1.000 g/mL. Freezing Point: Higher than ordinary water
	 Heavy water freezes at 3.82°C, while ordinary water freezes at 0°C.
	Corrosive Nature:
	 Heavy water can accelerate corrosion in certain metals due to its
	altered hydrogen bonding and slower dissociation rate.

Q. 37	Which of the following is the apex body for coordinating scientific research in India? a) ISRO
	b) CSIR
	c) DRDO
	d) BARC
Explanation:	 Council of Scientific and Industrial Research (CSIR) is the apex body for coordinating scientific and industrial research in India. Established in 1942, CSIR operates under the Ministry of Science and Technology. It oversees a network of 37 national laboratories and is involved in multidisciplinary R&D across aerospace, biotechnology, chemicals, energy, and environmental sciences. CSIR is known for innovations like indigenous COVID-19 testing kits, drug development, and green technologies. In 2025, CSIR launched a new initiative to promote AI-driven research in
	climate resilience and sustainable agriculture, aligning with India's SDG goals. Other organizations like ISRO, DRDO, and BARC focus on space, defense, and nuclear research, respectively, but CSIR coordinates broad-spectrum scientific research across sectors.

Consider the following statements regarding the Bengal National College:

- 1. Aurobindo Ghose became its first principal.
- 2. It was established as part of the Swadeshi Movement, following the Partition of Bengal.
- 3. Its objective was to promote Indian-oriented education focusing on patriotism, science, and self-reliance.
- 4. It was founded with financial assistance from the British colonial government.

Which of the statements given above are Incorrect?

- a) Only 1 & 3
- b) Only 4
- c) Only 1 & 4



X

d) None



Correct Answer: Only 4

Let's evaluate each statement carefully:

Statement Analysis

1. "In 1906, Aurobindo Ghose became its first principal."

Correct

- Aurobindo Ghose (later known as Sri Aurobindo) was appointed the first principal of Bengal National College in August 1906.
- He was a prominent nationalist and intellectual leader during the Swadeshi Movement.
- 2. "It was established as part of the Swadeshi Movement, following the Partition of Bengal in 1905."

Correct

- The Swadeshi Movement emerged in response to Lord Curzon's Partition of Bengal (1905).
- Bengal National College was founded in **1906** as a nationalist alternative to British-controlled education.
- 3. "Its objective was to promote Indian-oriented education focusing on patriotism, science, and self-reliance."

Correct

- The college aimed to instill **nationalist values**, promote **scientific learning**, and encourage **self-reliance**, aligning with Swadeshi ideals.
- It rejected colonial curricula and emphasized **Indian culture and** heritage.
- 4. "It was founded with financial assistance from the British colonial government."

X Incorrect

- The college was **funded by Indian nationalists and public donations**, not by the British government.
- In fact, it was created **in opposition to British educational policies**, making colonial funding highly unlikely.

Enriched Context

- The Bengal National College later merged with the National Council of Education, which eventually evolved into Jadavpur University.
- The institution symbolized **educational self-determination** and was a key cultural pillar of the Swadeshi Movement.

Hence, the incorrect statement is: Only 4.

Casualization of workforce would result in: Q. 39 a) Decrease in the vulnerability of the workforce b) Increase in the vulnerability of the workforce c) Increase in the number of regular workers d) Income and employment stability Correct Answer: Increase in the vulnerability of the workforce Understanding Casualization of Workforce **Casualization** refers to the growing trend of employing workers on a **temporary**, **contract, or informal basis** rather than offering them **permanent, secure jobs**. This phenomenon is especially prevalent in developing economies and sectors like construction, retail, and gig-based services. Impacts of Casualization A Increased Vulnerability Casual workers often lack: Iob security • Social protection (e.g., health insurance, pension) Legal safeguards **Explanation:** Union representation Consistent income • X No Increase in Regular Workers Casualization **reduces** the proportion of regular, salaried employees. • X No Income or Employment Stability Casual workers face fluctuating wages, irregular hours, and frequent job changes. • X No Decrease in Vulnerability On the contrary, it **exposes workers to exploitation**, poor working conditions, and economic uncertainty.

***** Conclusion

Casualization leads to an **increase in workforce vulnerability**, making workers more susceptible to economic shocks and exploitation.

On which date did Punjab abolish the Legislative Council? Q. 40 a) 1 January 1971 b) 1 January 1977 c) 1 January 1975 d) 1 January 1970 Correct Answer: 1 January 1970 m Historical Context Punjab abolished its Legislative Council (Upper House) on 1 January 1970, following the passage of the Punjab Legislative Council (Abolition) Act, 1969. This move was part of a broader national trend to simplify state legislatures by transitioning from bicameral to unicameral systems. Key Constitutional Provision • Article 169 of the Indian Constitution empowers a state to abolish its **Explanation:** Legislative Council: • Requires a resolution passed by the **Legislative Assembly**. • Followed by Parliamentary approval. **Why It Matters** • Punjab became a **unicameral legislature**, retaining only the **Legislative** Assembly (Vidhan Sabha). • Other states like West Bengal and Tamil Nadu also followed suit during that period.

Which of the following statements is FALSE?

- A. Histidine is an essential alpha amino acid and works towards growth and tissue repair.
- B. Histidine plays an important role in growth, repair of damaged tissues and making of blood cells.
- C. Valine is a non-essential amino acid, and it is systhesised in the human body.
- D. Lysine plays an important role in normal growth and muscle turnover.
- a) Only A
- b) Only D
- c) Only B
- d) Only C
 - Correct Answer: Only C
 - X Statement C: Valine is a non-essential amino acid, and it is synthesised in the human body.

This is **false**.

- Valine is an essential amino acid, meaning it cannot be synthesised by the human body.
- It must be obtained from dietary sources like meat, dairy, soy, and legumes.
- Valine is a branched-chain amino acid (BCAA), important for muscle repair, energy production, and tissue growth.
- Statement A: Histidine is an essential alpha amino acid and works towards growth and tissue repair.

True.

Explanation:

- Histidine is essential, especially during infancy.
- It supports **growth, tissue repair**, and is a precursor to **histamine**, which plays a role in immune response.
- Statement B: Histidine plays an important role in growth, repair of damaged tissues and making of blood cells.

True.

- It aids in the **formation of red and white blood cells** and supports **tissue regeneration**.
- Statement D: Lysine plays an important role in normal growth and muscle turnover.

True.

- Lysine is essential for protein synthesis, calcium absorption, and muscle maintenance.
- It also supports immune function and collagen formation.

Q. 42	Match the gases in column I with their odour in Column II.				
	Column I		Column II		
	A.	CO ₂	1.	Colourless gas with the smell of rotten eggs	
	В.	H ₂ S	2.	A colourless, odourless gas	
	C.	SO ₂	3.	Colourless gas with a pungent smell	
	a) A-1, B-2,	, C-3	×		
	b) A-2, B-1, C-3				
	c) A-2, B-3, C-1				
	d) A-3, B-1, C-2				
	The Correct Answer is: A-2, B-1, C-3				
Explanation:	Correct Matching:				
	• $CO_2 \rightarrow 2$. A colourless, odourless gas				
	• $H_2S \rightarrow 1$. Colourless gas with the smell of rotten eggs				
	• $SO_2 \rightarrow 3$. Colourless gas with a pungent smell				
	Final Answer: A \rightarrow 2, B \rightarrow 1, C \rightarrow 3				

Consider the following statements:

- 1. Infant mortality rate measures infant deaths within one month of birth.
- 2. Infant mortality rate is the number of infant deaths per 100 live births in a given year.

Which of the above statements is/are correct?

- a) Only 1
- b) Only 2
- c) Both 1 and 2



d) Neither 1 nor 2



The Correct Answer is: D) Neither 1 nor 2



What is Infant Mortality Rate (IMR)?

- **Definition**: IMR refers to the number of deaths of infants **under one year of** age per 1,000 live births in a given year.
- Notable Correction:
 - **Statement 1** is incorrect because it limits the age to **one month**, whereas IMR includes deaths up to 12 months.
 - **Statement 2** is incorrect because it mentions **per 100 live births**, but the correct denominator is 1,000 live births.

Significance of IMR:

Explanation:

- It is a key indicator of a country's health system, maternal care, and socioeconomic development.
- A high IMR often reflects poor access to healthcare, malnutrition, and inadequate sanitation.
- A low IMR indicates better healthcare infrastructure and maternal-child welfare.

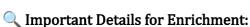
India's IMR (Latest Available Data):

- As per Sample Registration System (SRS) data, India's IMR has been steadily declining.
- National IMR (2023 estimate): Around 28 deaths per 1,000 live births.
- Kerala has the lowest IMR, while Madhya Pradesh has one of the highest.

What is the starting voltage of an AA battery used for home gadgets such as remote controls, small toys, and wireless kitchen appliances?

- a) 2.0 V
- b) 1.5 V
- c) 3.0 V
- d) 2.5 V

Correct Answer: 1.5 V



AA Battery Basics

- Standard AA battery voltage: 1.5 volts
- Battery type: Usually alkaline or zinc-carbon
- Size code: IEC R6 / ANSI 15

Variants of AA Batteries

- Rechargeable AA (NiMH or NiCd): Typically 1.2 V
- Lithium AA batteries: Can go up to 3.6 V, but not standard for everyday gadgets

Explanation:

Common Uses

- · Remote controls
- · Wall clocks
- · Wireless mouse and keyboards
- Small toys
- Kitchen scales and appliances

M Why Voltage Matters

- Using a battery with incorrect voltage can damage devices or reduce performance.
- Gadgets designed for 1.5 V may not function properly with 3.0 V lithium cells unless specified.

Which of the following statements is/are Incorrect?

- 1. Alauddin's revenue and tax reforms proved to be a complete failure.
- 2. Alauddin's economic reforms weakened the state's economic condition, which led to lack of resources for empire expansion.
- a) Neither 1 nor 2



b) Only 1



c) Only 2



d) Both 1 and 2



Correct Answer: (d) Both 1 and 2

📜 Alauddin Khilji's Revenue and Economic Reforms

- Statement 1 is incorrect: Alauddin's revenue reforms were highly effective. He introduced measurement of land (bigha system) and fixed land revenue rates, which increased state income and curbed corruption.
- **Statement 2 is incorrect**: His economic reforms, including **price control** (market reforms) and strict regulation of grain trade, strengthened the economy and ensured ample resources for military campaigns.

Explanation:

X Impact on Empire Expansion

- Alauddin used the surplus revenue to fund **successful military expeditions** into Rajasthan, Gujarat, and the Deccan.
- His policies helped maintain a large standing army, crucial for defending against Mongol invasions.

Notable Personalities

- Amir Khusrau, the famous poet and chronicler, praised Alauddin's administrative efficiency.
- His market reforms were supervised by **Diwan-i-Riyasat**, a special department.

Stainless Steel is an alloy formed from the mixture of ___ Q. 46 a) Iron, Carbon, Chromium, Platinum b) Iron, Carbon, Chromium, Nickel c) Iron, Carbon, Copper, Nickel d) Iron, Aluminium, Chromium, Nickel Correct Answer: Iron, Carbon, Chromium, Nickel Important Details: **X** Composition of Stainless Steel • **Iron**: Base metal providing strength and durability. • Carbon: Enhances hardness and tensile strength. • **Chromium**: Provides corrosion resistance by forming a protective oxide layer. • Nickel: Improves toughness and resistance to oxidation at high temperatures. **Key Properties** • Corrosion resistance: Ideal for kitchenware, medical instruments, and construction. **Explanation:** • **Strength and durability**: Used in heavy machinery and automotive parts. • **Aesthetic appeal**: Shiny finish makes it popular for decorative purposes. Applications • Kitchen appliances (e.g., utensils, sinks). • Medical tools (e.g., surgical instruments). • Industrial equipment (e.g., pipelines, tanks). • Architecture (e.g., building facades, bridges). Mhy Chromium and Nickel Matter • Chromium content must be at least 10.5% for stainless steel to resist rust. Nickel enhances ductility and prevents brittleness, especially in high-grade stainless steel.

Q. 47	In which year did India win the men's Hockey World Cup?
	a) 1984
	ы) 1983
	c) 1975
	d) 1979
	✓ Correct Answer: 1975
	✓ Explanation:
	▼ India's Historic Hockey World Cup Victory
	 Year: 1975 Venue: Kuala Lumpur, Malaysia Final Match: India defeated Pakistan 2–1 Captain: Ajit Pal Singh Winning Goal: Scored by Ashok Kumar, son of hockey legend Dhyan Chand
	7 India: A Hockey Powerhouse
Explanation:	 India has won 8 Olympic gold medals in men's hockey (1928–1980), the most by any nation.
	India's Bronze Medal at Paris 2024 Olympics
	 India defeated Spain 2-1 in the bronze medal match held on 8 August 2024 Captain: Harmanpreet Singh, who scored both goals Goalkeeper: PR Sreejesh, delivered a stellar performance in his final
	 This marked India's 13th Olympic medal in men's hockey, and second consecutive bronze after Tokyo 2020

In May 2025, Jamia Millia Islamia suspended all Memorandum of Understanding (MoU) with all educational institutions affiliated to which country?

a) Azerbaijan



b) Turkey



- c) Iran
- d) China



Correct Answer: Turkey

Explanation:

Background

- On 15 May 2025, Jamia Millia Islamia announced the suspension of all MoUs with institutions affiliated to the Government of the Republic of Türkiye.
- The decision was taken citing **national security concerns**, following Turkey's vocal support for Pakistan during a recent conflict.

Explanation:

m Institutional Response

- Jamia stated it "stands firmly with the Nation," echoing similar actions by JNU and **Kanpur University**, which also terminated ties with Turkish institutions.
- The suspended MoUs included academic collaborations, student exchanges, and joint research programs.

Geopolitical Context

- Turkey was accused of supplying **military drones** to Pakistan, which were allegedly used in cross-border hostilities.
- The move reflects a broader trend of Indian universities reassessing partnerships based on strategic and diplomatic alignment.

Q. 49 In the context of UN Sustainable Development Goals, which of the following pairs is INCORRECT? 1. Zero Hunger - SDG 2 2. Decent Work and Economic Growth - SDG 6 3. No Poverty - SDG 1 4. Quality Education - SDG 3 a) Only 1 & 3 b) Only 3 & 4 c) Only 2 & 4 d) Only 1 & 4 Correct SDG Pairings: Zero Hunger – SDG 2 ✓ No Poverty – SDG 1 ✓ X Incorrect SDG Pairings: Decent Work and Economic Growth – SDG 6 X • Correct SDG: SDG 8 • SDG 6 is actually Clean Water and Sanitation Quality Education – SDG 3 X **Explanation:** • Correct SDG: SDG 4 • SDG 3 is Good Health and Well-being **Additional Information:** • SDG 4 aims to "Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all." • There are 17 SDGs in total, adopted by the United Nations in 2015 as part of the 2030 Agenda for Sustainable Development. • India has implemented several programs like Samagra Shiksha Abhiyan and National Education Policy 2020 to align with SDG 4.

Shaheed Madho Singh Haath Kharcha, launched in January 2025, was started by Q. 50 which state government? a) Rajasthan b) Chhattisgarh c) Odisha d) Jharkhand Shaheed Madho Singh Haath Kharcha was launched by the Odisha government in January 2025. • The scheme provides a ₹5,000 one-time direct benefit transfer to Scheduled **Tribe (ST) students enrolling in Class IX & XI** to prevent dropouts. • **Eligibility:** Students must belong to ST community, enrolled in government or government-aided schools, with annual family income less than ₹2.5 lakh. • Named in honor of **Madho Singh Bariha**, a freedom fighter from Bargarh who resisted British rule during the 1857 uprising. **Explanation:** • **Budget:** About ₹156 crore allocated, to benefit approximately 2–3 lakh tribal students across Odisha. • Applications are processed via the Odisha State Scholarship Portal and overseen by the ST & SC Development Department. **Other current Odisha updates:** "Mo Ghara" housing scheme for rural poor, "Odisha Millet Mission" for nutrition, new AI learning labs in schools, and boost to tribal entrepreneurship.

Q. 51	Sum of two non co-prime numbers a, b and their HCF gives 65. What is the number of possible values of (a, b)?
	a) 3 ×
	b) 4. ×
	c) 5 ×
	d) 6 🛷
	let Heroh
	a: hx , b : hy , where x by are co -primes. $h + hx + hy$: c : c : h : f
	h + hx + hx 2 65
	N(1+x+y) 265
	h can be 1, 13 & 5
	h \$ 1 (as a, b ave non co-primes)
	of h= 13, 1+x+y=5
Explanation:	2> x+y = 4 possible pairs = (1,3), (3,1)
	the 5, 1+x+y=13
	2) x+y=12
	possible pairo 2 (1,11), (11,1),
	(7,5),(5,7)
	Total possible pairs
	» 4+2 = 6 (Ans)

Q. 52 The distance from the origin to the line 5x + 12y = 9 is:

a) 9/13 🗸

b) 13/9

c) 18/13 X

d) 13/18 X

Explanation:

$$\rightarrow$$
 5x + 12y - 9 = 0
So, A = 5, B = 12, C = -9

Use the point-to-line distance formula

Distance =
$$\frac{|Ax_0 + By_0 + C|}{\sqrt{(A^2 + B^2)}}$$

Explanation:

Plug in origin $(x_0, y_0) = (0, 0)$

Distance =
$$|5(0) + 12(0) - 9| / \sqrt{(5^2 + 12^2)}$$

$$= |-9| / \sqrt{(25 + 144)}$$

$$= 9 / \sqrt{169}$$

$$= 9 / 13$$

Final Answer:

Distance = 9/13 units

Q. 53	A man buys some oranges at the rate of 6 for Re 1 and same number of oranges at the rate of 5 for Re 1. He sold all of them at the rate of 15 for Rs 4. During the whole transaction he incurs a profit of Rs. 35. Find the number of articles he purchased? a) 390
	b) 560 ×
	c) 420 🕜
	d) 450 ×
	Let the man purchased 30 oranges of each type.
	Purchase 1:
	Rate = 6 for Re 1 \rightarrow Cost per orange = 1/6 Cost for 30 oranges = 30 \times (1/6) = 5 Rs
	dost for 50 Granges 50 × (1, 0) 5 Hs
	Purchase 2:
	Rate = 5 for Re 1 \rightarrow Cost per orange = 1/5
	Cost for 30 oranges = $30 \times (1/5) = 6$ Rs
	Total cost price = $5 + 6 = 11 \text{ Rs}$
Explanation:	Total oranges = $30 + 30 = 60$
	Selling rate = 15 for Rs $4 \rightarrow$ Price per orange = $4/15$
	Selling price for 60 oranges = $60 \times (4/15) = 16 \text{ Rs}$
	Profit = Selling price — Cost price
	Profit = 16 - 11 = 5 Rs
	5 = 35 => 1 = 7

Therefore, total number of articles he purchased = $60 \times 7 = > 420$

In $\triangle PQR$, $\angle P = 90^{\circ}$, S is a point on QR such that PS is perpendicular to QR. If QS = 9 cm and SR = 27 cm, then (PQ + PR) is equal to:

a)
$$27(1+\sqrt{3})$$



b)
$$18(1+\sqrt{3})$$

c)
$$_{12(1+\sqrt{3})}$$
 ×

d)
$$9(1+\sqrt{3})$$

If altitude PS is drawn from right angle P to hypotenuse QR, then:

$$PQ^2 = QS \times QR$$

$$PR^2 = SR \times QR$$

Explanation:

So:

$$PQ^2 = 9 \times 36 = 324 \rightarrow PQ = \sqrt{324} = 18 \text{ cm}$$

$$PR^2 = 27 \times 36 = 972 \rightarrow PR = \sqrt{972} = 6\sqrt{27} = 18\sqrt{3} \text{ cm}$$

Final Answer:

$$PQ + PR = 18 + 18\sqrt{3} \text{ cm} = > \frac{18(1 + \sqrt{3})}{18}$$

_	
O.	55

Find the equation of the perpendicular bisector of the line segment joining the points A(3,5) and B(8,-6).

a)
$$x - 5y - 11 = 0$$

b)
$$5x - y - 33 = 0$$

c)
$$5x - 11y - 33 = 0$$

d)
$$x - 11y - 3 = 0$$

To find the perpendicular bisector of line AB where A(3, 5) and B(8, -6):

Midpoint of AB:

$$M = ((3+8)/2, (5+(-6))/2) = (11/2, -1/2)$$

Slope of AB:

$$m_1 = (-6 - 5)/(8 - 3) = -11/5$$

Explanation:

Perpendicular slope:

$$m_2 = 5/11$$

Use point-slope form:

$$y - (-1/2) = (5/11)(x - 11/2)$$

$$\Rightarrow$$
 y = $(5/11)x - 3$

$$\Rightarrow 5x - 11y - 33 = 0$$

Equation of perpendicular bisector is: 5x - 11y - 33 = 0

Q. oo	v.	56
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A fruit seller has a total of 195 fruits consisting of apples, mangoes and oranges. The number of apples and mangoes are in the ratio 5: 6. After she sells 26 apples, 38 mangoes and three-fourth of the oranges, the ratio of number of unsold apples to number of unsold oranges becomes 3: 1. The total number of unsold fruits is:

a) 98 💢

b) 87

c) 92 🧼

d) 81

Let number of apples = 5x

Let number of mangoes = 6x

Then number of oranges = 195 - (5x + 6x) = 195 - 11x

Fruits sold:

- Apples sold = $26 \rightarrow \text{Unsold apples} = 5x 26$
- Mangoes sold = $38 \rightarrow \text{Unsold mangoes} = 6x 38$
- Oranges sold = (3/4)(195 11x) \rightarrow Unsold oranges = (1/4)(195 11x)

Given:

(Unsold apples) / (Unsold oranges) = 3 / 1

$$\rightarrow$$
 (5x - 26) / [(1/4)(195 - 11x)] = 3

Explanation: \rightarrow

$$\rightarrow 4(5x - 26) / (195 - 11x) = 3$$

$$\rightarrow (20x - 104) / (195 - 11x) = 3$$

Cross-multiply:

$$\rightarrow 20x - 104 = 3(195 - 11x)$$

$$\rightarrow$$
 20x $-$ 104 = 585 $-$ 33x

$$\rightarrow$$
 20x + 33x = 585 + 104

$$\rightarrow 53x = 689$$

$$\rightarrow$$
 x = 13

Apples =
$$5x = 65 \rightarrow Unsold = 65 - 26 = 39$$

Mangoes =
$$6x = 78 \rightarrow Unsold = 78 - 38 = 40$$

Oranges =
$$195 - 11x = 195 - 143 = 52 \rightarrow Unsold = (1/4)(52) = 13$$

Total unsold fruits = 39 + 40 + 13 = 92

Q. 57 Simplify: $[(3^4 \times 7^2) + (5^3 - 2^2)] \mod 11$

a) 9 🧳

b) 11 💢

c) 0 💢

d) 7

Explanation:

$$(3^4 \times 7^2) + (5^3 - 2^2)$$

$$\rightarrow$$
 (81 × 49) + (125 – 4)

$$\rightarrow$$
 = 3969 + 121

 $\rightarrow = 4090$

Explanation:

Find 4090 mod 11

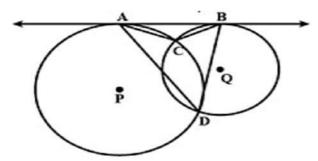
 \rightarrow 4090 \div 11 = 371 remainder 9

 \rightarrow So, 4090 mod 11 = 9

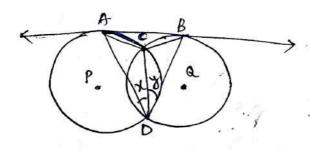
Final Answer:

$$\rightarrow$$
 [(3⁴ × 7²) + (5³ – 2²)] mod 11 = 9

Two circles, centered at P and Q intersect at two points C and D. AB is tangent to the two circles at A and B. If $\angle ADB = 72^{\circ}$, then $\angle ACB = \underline{\hspace{1cm}}$.



- a) 108°
- b) 96°
- c) 112°
- d) 132°



Explanation:

LCAB = X (Attended Segment theorem)

LABC = y (Attended Segment theorem)

O.	59
u .	J

An amount of ₹10,000 was invested for 3 years, partly in scheme X at 6% simple interest per annum and the rest in scheme Y at 4% simple interest per annum. The total interest received at the end was ₹1,440. What was the amount of money invested in scheme X?

- a) ₹4,000 ⊌
- b) ₹6,000 ×
- c) ₹7,200 ×
- d) ₹8,000 ×

Let amount in Scheme $X = \mathbb{T}x$

Then amount in Scheme $Y = \mathbb{T}(10,000 - x)$

SI from
$$X = (x \times 6 \times 3)/100 = 18x/100$$

SI from $Y = ((10,000 - x) \times 4 \times 3)/100 = 12(10,000 - x)/100$

Explanation:

Total SI = ₹1,440
⇒
$$(18x + 120.000 - 100)$$

$$\Rightarrow (18x + 120,000 - 12x)/100 = 1440$$

$$\Rightarrow (6x + 120,000)/100 = 1440$$

$$\Rightarrow$$
 6x + 120,000 = 144,000

$$\Rightarrow$$
 6x = 24,000

$$\Rightarrow$$
 x = ₹4,000

Final Answer: ₹4,000 invested in Scheme X

Q. 60	If $tan(x + y) tan(x - y) = 1$, then find the value of $tan3x$.	
	a) $\sqrt{3}$	
	b) ₁ ×	
	c) $\frac{1}{\sqrt{3}}$	
	d) -1 💉	
	tan(x+y)tan(x-y)=1 tan(x+y) = cot(x-y) tan(x+y) = tan[90-(x-y)]	
Explanation:	2) x+y = 90-(x-y) 2) x+y+ x-y = 90 2) 2x = 90 =) x= 45°	
	$tan3x = tan135^{\circ} = > -1$	

O.	61
v.	OT

A, B and C invested money in a business such that 3 times A's share, 5 times B's share and 10 times C's share are all equal. If they earned ₹57,000, find the share of A.

- a) Rs. 30,000
- b) Rs. 36,000
- c) Rs. 27,000
- d) Rs. 32,000

Given:

$$3 \times A = 5 \times B = 10 \times C = k \text{ (say)}$$

$$\Rightarrow$$
 A = k/3, B = k/5, C = k/10

LCM of denominators 3, 5, 10 = 30

Let k = 30 (to simplify ratio)

Then:

Explanation:

$$A = 30/3 = 10$$

$$B = 30/5 = 6$$

$$C = 30/10 = 3$$

Total parts = 10 + 6 + 3 = 19

Total profit = ₹57,000

A's share = $(10/19) \times 57,000 = ₹30,000$

Final Answer: ₹30,000

Ο.	62
Æ.	~

If the length of a common external tangent to two circles is 10 and that of a common internal tangent is 6, then the product of the radii of the two circles is:

a) 32

b) 12

c) 16 🛷

d) 24 💢

Let radii of the two circles be r_1 and r_2

Let d = distance between centers

Formulas:

External tangent length = $\sqrt{(d^2 - (r_1 - r_2)^2)} = 10$

Internal tangent length = $\sqrt{(d^2 - (r_1 + r_2)^2)} = 6$

Explanation:

Squaring both:

$$d^2 - (r_1 - r_2)^2 = 100 \dots (1)$$

$$d^2 - (r_1 + r_2)^2 = 36 \dots (2)$$

Subtract (2) from (1):

$$[(r_1 + r_2)^2 - (r_1 - r_2)^2] = 64$$

$$\Rightarrow [r_1^2 + 2r_1r_2 + r_2^2 - (r_1^2 - 2r_1r_2 + r_2^2)] = 64$$

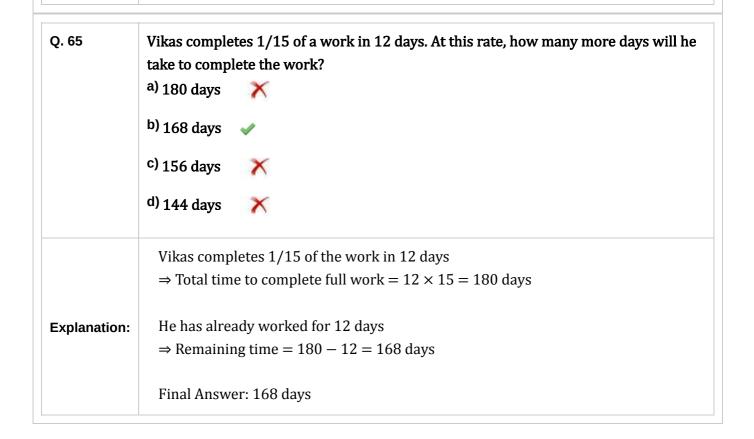
$$\Rightarrow 4r_1r_2 = 64$$

$$\Rightarrow r_1r_2 = 16$$

Final Answer: 16

Q. 63	Ravi gives Priya a head-start of 30 seconds in a 1,000m race and beats her by 120m. In the next race, Ravi gives Priya a start of 150m and beats her by 10 seconds. In how much approximately time (in minutes) can Priya complete the full race of 1,000m? a) 8		
	b) 11 🕜		
	c) 15 ×		
	d) 22 ×		
	Ravi Priya Jime		
	1000 880 30 sec.		
	Ravi Priya Jime 1000 880 30 sec. 1000 850 10 sec		
Explanation:	30 m 2 20 sec		
	1.5m > 1 sec		
	Speed of priya 2 1.5 m/sec.		
	Fine taken by priya to complete		
	Jime taken by priya to complete 1000 m = 1000 x2 = 666.7 sec.		
	= 11 minutes (Am)		

Q. 64	Find the remainder, when the mean proportional of $8(\frac{1}{6})$ and 2904 is divided by smallest three-digit prime number. a) 38
	b) 57 ×
	c) 48 ×
	d) 53 🛷
	Convert $8(^{1}/_{6})$ to improper fraction
	$8(^{1}/_{6}) = 49/_{6}$
	Mean proportional = $\sqrt{[(49/6) \times 2904]}$
	$=\sqrt{[(49 \times 2904) / 6]}$
	$=\sqrt{(142,296/6)}$
	$=\sqrt{(23,716)}$
Explanation:	= 154
	Smallest 3-digit prime = 101
	Remainder = $154 \mod 101 = 154 - 101 = 53$



Final Answer: 53

Q. 66	When $f(m) = m^{5} + 4m^{4} - 5m + 8$ is divided by $(m - 3)$, then the remainder is
	a) 756
	b) 560 🗸
	c) 321 ×
	d) 658
	Use Remainder Theorem:
	If $f(m)$ is divided by $(m - a)$, then remainder = $f(a)$
	Here, $a = 3$
	$f(m) = m^5 + 4m^4 - 5m + 8$
Explanation:	Evaluate f(3):
	$= 3^5 + 4 \times 3^4 - 5 \times 3 + 8$
	$= 243 + 4 \times 81 - 15 + 8$
	= 243 + 324 - 15 + 8
	= 560
	Final Answer: 560

2023, 13.23	NDE-33C-CGL-2023-Live-Mock-29-August-17-2023
Q. 67	A bottle is filled with a mixture of water and syrup in ratio 3: 4 respectively. How much of the mixture must be replaced with water so that the mixture has half water and half syrup?
	a) $\frac{1}{9}$
	b) $\frac{3}{2}$
	c) $\frac{3}{5}$
	d) $\frac{7}{8}$
Explanation:	Mixture is replaced with water Syrup is decreasing.
	2) 1/4 ×f = 1/2
	" f = 7/8 Mixture replaced = 1/8
	Mixture replaced 2/8

Q. 68	In a frequency distribution, the mean is 60, the mode is 52, and the standard deviation is 6. Calculate Karl Pearson's coefficient of skewness. a) 2.67
	b) 1.33 🕜
	c) 0.87
	d) 1.72
	Karl Pearson's coefficient of skewness:
	Skewness = (Mean - Mode) / SD
	Given:
Explanation:	Mean = 60
	Mode = 52
	SD = 6
	Skewness = $(60 - 52) / 6 = 8 / 6 = 1.33$
	Final Answer: 1.33

Q. 69	The length, breadth, and height of a rectangular room are 18 m, 12 m, and 6 m, respectively. Each can of paint covers 45 square meters of wall area. How many cans of paint are needed to paint only the four walls of the room? a) 8
	b) 20 ×
	c) 16 ×
	d) ₁₂
Explanation:	Length = 18 m Breadth = 12 m
	Height = 6 m
	Area of four walls = $2 \times \text{height} \times (\text{length} + \text{breadth})$
	$= 2 \times 6 \times (18 + 12)$ = 12 \times 30 = 360 m ²
	Each can covers 45 m ²
	\Rightarrow Number of cans = 360 / 45 = 8
	Final Answer: 8 cans

Q. 70	If $cos^4\theta - sin^4\theta = \frac{5}{13}$, then find the value of sin40. a) 120/169
	b) 60/169 X
	c) 90/169 ×
	d) 150/169 X
	Cosyo - Sinyo = 5/13
	\$ (cos20-8in20)(cos20+8in20) 25/12
	2) cos20 - Sin20 25/13
	"> coo 20 25/13 > 8in20=12/13
Explanation:	(Since . 5, 12, 13 ave triplets)
	»> cos 20 x Sin 20 2 5/3 x12/3
	9 281n20 cou 20 2 2 x 60
	169
	3 Sinyo = 120
	169

Q. 71	How many words, with or without meaning, each of 3 vowels and 2 consonants can
	he formed from the letters of the word REACTION?

a) 2680



b) 2880



c) 2460 X

d) 2520

Word: REACTION

Total letters = 8

Vowels = A, E, I, O(4 vowels)

Consonants = R, C, T, N (4 consonants)

We need to form words with:

 \rightarrow 3 vowels out of 4

 \rightarrow 2 consonants out of 4

Step 1: Choose 3 vowels from 4

$$= {}^{4}C_{3} = 4$$

Explanation:

Step 2: Choose 2 consonants from 4

 $= {}^{4}C_{2} = 6$

Step 3: Total selections = $4 \times 6 = 24$

Step 4: Arrange 5 letters (3 vowels + 2 consonants)

= 5! = 120

Total words = $24 \times 120 = 2,880$

Final Answer: 2,880 words

Ο.	72
v.	

By selling an article at 2/3 of its actual selling price, Aman incurs a loss of 15%. If he sells it at 90% of its actual selling price, what is his profit percentage?

- a) 10.65%
- b) 22.25%
- c) 12.85%
- d) 14.75%

Explanation:

2 14.75.1. (AM)

U. 1	3
-------------	---

P got married 16 years ago. Today her age is 2(1/3) times her age at the time of her marriage. At present her son's age is 1/7 of her age. What was her son's age 3 years ago as a fraction of P's age at that time?

a) 2/25

X

b) 3/25

c) 1/25 🕜

d) 4/25 X

Let P's age at marriage = x

 \Rightarrow Present age = x + 16

Given: Present age = (7/3)x

So:

x + 16 = (7/3)x

Multiply both sides by 3:

$$3x + 48 = 7x$$

$$\Rightarrow 4x = 48$$

$$\Rightarrow$$
 x = 12

Explanation:

So P's present age = 12 + 16 = 28 years

Son's present age = $(1/7) \times 28 = 4$ years

Son's age 3 years ago = 4 - 3 = 1 year

P's age at that time (i.e., 3 years ago) = 28 - 3 = 25 years

Required fraction = 1 / 25

Final Answer: 1/25

Q. 74	M varies inversely as (N2 + 5). If $M = 4$ when $N = 5$, then what will be the value of M when $N^2 = 72$?
	a) 120/77 🗳
	b) 60/77
	c) 90/77
	d) 150/77
Explanation:	Given: $M \propto 1 / (N^2 + 5)$
	$\Rightarrow M = k / (N^2 + 5)$
	Use $M = 4$ when $N = 5$:
	$N^2 + 5 = 25 + 5 = 30$
	\Rightarrow 4 = k / 30
	⇒ k = 120
	Now, $N^2 = 72$
	\Rightarrow M = 120 / (72 + 5) = 120 / 77
	Final Answer: 120/77

Rahul's average earning per month in the first three months of a year was ₹18,000. In April, his earning was 60% more than the average earning in the first three months. If his average earning per month for the whole year is ₹35,000, then what will be Rahul's average earning (in ₹) per month from May to December?

- a) ₹44,160
- X
- b) ₹42,150
- c) ₹45,320
- d) ₹48,400
- X

Step 1: First 3 months average = ₹18,000

 \Rightarrow Total for Jan–Mar = 3 × 18,000 = ₹54,000

Step 2: April earning = 18,000 + 60% of 18,000

= 18,000 + 10,800 = 328,800

Step 3: Total earning for full year = $12 \times 35,000 = ₹4,20,000$

Explanation:

Step 4: Total earning from May to Dec = = 4,20,000 - (54,000 + 28,800) = 4,20,000 - 82,800 = ₹3,37,200

Step 5: Average for May–Dec (8 months) =

 $= 3,37,200 \div 8 = 3,42,150$

Final Answer: ₹42,150

Choose the correct indirect speech form of the following sentence:

"The foreign minister said, 'We are holding talks with our neighbouring country to resolve the border dispute, and we can reach an agreement by the end of this month."

The foreign minister said that they were holding talks with their a) neighbouring country to resolve the border dispute, and they could reach an agreement by the end of that month.

The foreign minister said that they had been holding talks with their b) neighbouring country to resolve the border dispute, and they would reach an agreement by the end of that month.

The foreign minister said that they were holding talks with their c) neighbouring country to resolve the border dispute, and they would be able to reach an agreement by the end of this month.

The foreign minister said that they were holding talks with their d) neighbouring country to resolve the border dispute, and they could reach an agreement by the end of the month.

- Rule 1: Present continuous (are holding) → past continuous (were holding) in reported speech.
- Rule 2: Modal can → could in indirect speech.
- Rule 3: "This month" → that month (time expression change).
- Rule 4: Pronoun "we" → they (reporting from outside perspective).

Explanation:

Why others are wrong:

- B X Changes "are holding" to "had been holding," which shifts time unnecessarily.
- C X Doesn't change "this month" to "that month," so time reference is wrong.
- D X Slightly vague; "the month" without a determiner like "that" can cause ambiguity in formal reported speech.

Explanation:

X

X

Select the correct active voice sentence for the given passive voice sentence: Q. 77 "The final draft of the climate report will have been reviewed by the expert panel before it is submitted to the UN." The expert panel will review the final draft of the climate report before it is a) submitted to the UN. X The expert panel will have reviewed the final draft of the climate report b) before they submit it to the UN. The expert panel is reviewing the final draft of the climate report before c) submitting it to the UN. The expert panel reviewed the final draft of the climate report before it is d) submitted to the UN. **Explanation:** • Passive given: will have been reviewed → Future Perfect Passive. • Active form: Subject ("the expert panel") + Future Perfect Active ("will have reviewed") + object ("the final draft..."). • B matches both tense and meaning exactly, while also keeping the time clause **Explanation:** intact. • A X changes tense from future perfect to simple future. • C X changes tense completely to present continuous. • D x mixes past tense ("reviewed") with present tense ("is submitted"), which breaks timeline consistency.

Q. 78 **Explanation:**

Choose the correct one-word substitution for the given description:

"A person who believes that pleasure is the most important aim of life and lives accordingly."

- a) Epicure
- b) Hedonist
- c) Sybarite
- d) Libertine

Detailed Explanation:

- Hedonist ✓ someone whose philosophy is that the pursuit of pleasure is the highest good, often in a general philosophical sense.
- Epicure X a person with refined taste in food and drink; connected to pleasure but specifically culinary sophistication, not life philosophy.
- Sybarite X someone given to luxury and self-indulgence, especially comfort and extravagance — more about lavish lifestyle than the belief itself.
- Libertine X someone morally unrestrained, especially in sexual matters, but doesn't necessarily follow the belief that pleasure is life's main goal.

Q. 79

Choose the word which is the closest in meaning to "eloquent" as used in the sentence below:

"Her speech at the international climate summit was so eloquent that it moved both policymakers and activists to immediate action."

- a) Persuasive
- b) Talkative
- c) Verbose
- d) Garrulous



Explanation:

- Eloquent → fluent, expressive, and effective in speech or writing; often so impactful it persuades or inspires.
- Persuasive $(\checkmark) \rightarrow$ able to convince or influence through reasoning or appeal — matches the sense in the given context.
- Talkative $\times \rightarrow$ means simply inclined to talk a lot, without necessarily being convincing.
- Verbose $\times \rightarrow$ using more words than necessary; often has a negative tone.
- Garrulous X → excessively talkative, especially on trivial matters unrelated to strong and graceful expression.

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Read the passage and answer the following questions:

In recent months, Rahul Gandhi, Leader of the Opposition and prominent Congress leader, has intensified allegations of "vote chori" (vote theft) involving massive electoral fraud during the 2024 Lok Sabha elections, particularly in Karnataka's Mahadevapura constituency. Gandhi's claims assert that over 1,00,000 fake votes were manipulated with the alleged complicity of the Election Commission of India (ECI) and the Bharatiya Janata Party (BJP). According to Gandhi, multiple irregularities were discovered through a detailed investigation by Congress's research team, including duplicate voter entries, fraudulent addresses such as "House Number Zero," bulk registrations at single small addresses, and misuse of Form 6 designed for young voters. Gandhi further alleged that these fraudulent votes decisively swung several key seats to the BJP.

The Election Commission has firmly denied any wrongdoing, labeling the allegations as "absurd" and demanding that Gandhi provide proof under oath. Gandhi challenged the EC to verify video footage and electronic voter data, which have been reportedly withheld. Supporters within the Congress party have backed these accusations, launching a nationwide campaign to expose alleged election rigging. Critics from the BJP have dismissed Gandhi's claims as political theater, while analysts debate the implications for democratic processes in India. The controversy highlights concerns about electoral integrity, voter list accuracy, and transparency, raising pressing questions about safeguarding democracy in the world's largest electoral exercise.

Find the passive voice sentence from the passage:

a) Rahul Gandhi intensified allegations of vote theft.



Fraudulent votes were manipulated with the alleged complicity of the b) Election Commission.

c) Congress supporters backed the accusations.



d) The BJP dismissed Gandhi's claims as political theater.



Explanation:

- **Active voice:** Subject performs the action (A, C, D have this structure). Example: Rahul Gandhi (subject) intensified (verb) the allegations (object).
- Passive voice: Subject receives the action. In Option B, Fraudulent votes (subject) are being acted upon (were manipulated). The real doer (agent) is mentioned after "with the alleged complicity ...". This structure [object] + [passive verb] + [agent] marks it as passive.

Read the passage and answer the following questions:

In recent months, Rahul Gandhi, Leader of the Opposition and prominent Congress leader, has intensified allegations of "vote chori" (vote theft) involving massive electoral fraud during the 2024 Lok Sabha elections, particularly in Karnataka's Mahadevapura constituency. Gandhi's claims assert that over 1,00,000 fake votes were manipulated with the alleged complicity of the Election Commission of India (ECI) and the Bharatiya Janata Party (BJP). According to Gandhi, multiple irregularities were discovered through a detailed investigation by Congress's research team, including duplicate voter entries, fraudulent addresses such as "House Number Zero," bulk registrations at single small addresses, and misuse of Form 6 designed for young voters. Gandhi further alleged that these fraudulent votes decisively swung several key seats to the BJP.

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Choose the synonym of intensified as used in the passage:

a) Weakened



b) Ignored



c) Abandoned



d) Amplified



Explanation:

- In the passage, Rahul Gandhi has intensified allegations means he made the accusations stronger / more forceful.
- Amplified = increased in intensity or volume → perfect match in context.
- Weakened is opposite in meaning.
- Ignored / Abandoned mean he stopped focusing on the matter (opposite idea).

Read the passage and answer the following questions:

In recent months, Rahul Gandhi, Leader of the Opposition and prominent Congress leader, has intensified allegations of "vote chori" (vote theft) involving massive electoral fraud during the 2024 Lok Sabha elections, particularly in Karnataka's Mahadevapura constituency. Gandhi's claims assert that over 1,00,000 fake votes were manipulated with the alleged complicity of the Election Commission of India (ECI) and the Bharatiya Janata Party (BJP). According to Gandhi, multiple irregularities were discovered through a detailed investigation by Congress's research team, including duplicate voter entries, fraudulent addresses such as "House Number Zero," bulk registrations at single small addresses, and misuse of Form 6 designed for young voters. Gandhi further alleged that these fraudulent votes decisively swung several key seats to the BJP.

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Choose the antonym of alleged as used in the passage:

a) Reported



b) Claimed



c) Suspected



d) Proven



Explanation:

- Alleged means claimed without proof (not yet proven true).
- The direct antonym is Proven → confirmed with evidence.
- Suspected is similar to alleged (not an antonym).
- Claimed is essentially a synonym here.
- Reported is neutral, not opposite in meaning.

Read the passage and answer the following questions:

In recent months, Rahul Gandhi, Leader of the Opposition and prominent Congress leader, has intensified allegations of "vote chori" (vote theft) involving massive electoral fraud during the 2024 Lok Sabha elections, particularly in Karnataka's Mahadevapura constituency. Gandhi's claims assert that over 1,00,000 fake votes were manipulated with the alleged complicity of the Election Commission of India (ECI) and the Bharatiya Janata Party (BJP). According to Gandhi, multiple irregularities were discovered through a detailed investigation by Congress's research team, including duplicate voter entries, fraudulent addresses such as "House Number Zero," bulk registrations at single small addresses, and misuse of Form 6 designed for young voters. Gandhi further alleged that these fraudulent votes decisively swung several key seats to the BJP.

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"According to Gandhi, multiple irregularities were discovered through a detailed investigation by Congress's research team."

Identify the type of phrase in Bold Format.

a) Adverbial phrase



b) Gerund phrase



c) Prepositional phrase



d) Infinitive phrase



Explanation:

- "Through a detailed investigation by Congress's research team" begins with the preposition "through" and has an object a detailed investigation....
- That makes it a Prepositional Phrase.
- It acts adverbially (modifies "were discovered"), but SSC expects classification based on form, not just function, so the answer remains "Prepositional phrase."

Q. 84 Read the passage and answer the following questions:

In recent months, Rahul Gandhi, Leader of the Opposition and prominent Congress leader, has intensified allegations of "vote chori" (vote theft) involving massive electoral fraud during the 2024 Lok Sabha elections, particularly in Karnataka's Mahadevapura constituency. Gandhi's claims assert that over 1,00,000 fake votes were manipulated with the alleged complicity of the Election Commission of India (ECI) and the Bharatiya Janata Party (BJP). According to Gandhi, multiple irregularities were discovered through a detailed investigation by Congress's research team, including duplicate voter entries, fraudulent addresses such as "House Number Zero," bulk registrations at single small addresses, and misuse of Form 6 designed for young voters. Gandhi further alleged that these fraudulent votes decisively swung several key seats to the BJP.

The Election Commission has firmly denied any wrongdoing, labeling the allegations as "absurd" and demanding that Gandhi provide proof under oath. Gandhi challenged the EC to verify video footage and electronic voter data, which have been reportedly withheld. Supporters within the Congress party have backed these accusations, launching a nationwide campaign to expose alleged election rigging. Critics from the BJP have dismissed Gandhi's claims as political theater, while analysts debate the implications for democratic processes in India. The controversy highlights concerns about electoral integrity, voter list accuracy, and transparency, raising pressing questions about safeguarding democracy in the world's largest electoral exercise.

Direct to Indirect Speech

Rahul Gandhi said, "The Election Commission has withheld crucial voter data."

- Rahul Gandhi said that the Election Commission had withheld crucial voter a) $_{\mbox{\scriptsize data.}}$
- Rahul Gandhi said that the Election Commission has withheld crucial voter b) data.
- Rahul Gandhi said that the Election Commission might withheld crucial c) voter data.
- Rahul Gandhi said that the Election Commission did withheld crucial voter d) $_{\mbox{\scriptsize data.}}$

Explanation:

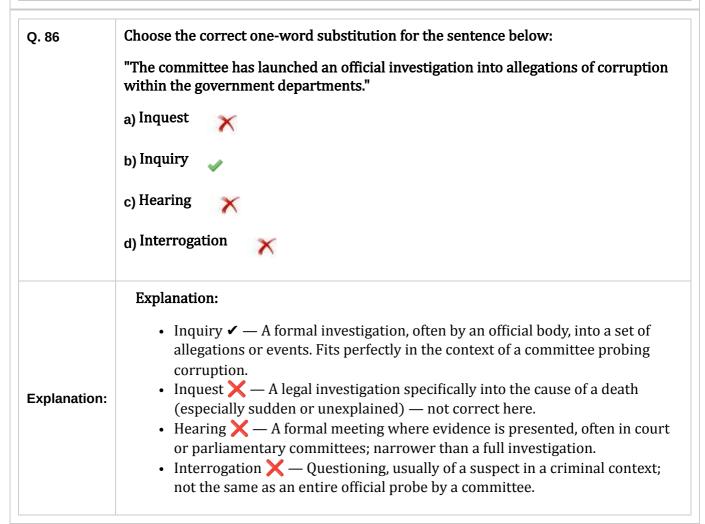
Explanation:

- 1. Reporting verb "said" is in past tense \rightarrow shift present perfect ("has withheld") to past perfect ("had withheld").
- 2. Pronouns remain the same since there's no ambiguity.
- 3. No need to change "crucial voter data" (noun phrase stays).
- 4. No major time adverb change is needed since none is given.

X

X

Q. 85	Select the correctly spelled word from the options below:
	a) Tenessee
	b) Tennesee
	c) Tennessee
	d) Tennesssee
	Explanation:
Explanation:	 Tennessee is the correct spelling — the name of the U.S. state — with double "n" and double "s", but only one "e" after the "n" and before the "s". Common mistakes: Tenessee — missing one "n". Tennesee — missing one "s". Tennessee — has an extra "s". Remember: Ten-nes-see → NN + SS rule.



The sentences below (P, Q, R, S) form a coherent paragraph about the increasing population in India and its political implications. Arrange them in the correct order.

- P: The government's policies often reflect attempts to balance population control with political considerations, as some politicians view large voter bases as advantageous vote banks.
- Q: India's population continues to grow rapidly, making it the most populous country in the world as of 2023, with demographic trends showing varied regional growth rates.
- R: This situation has raised concerns about resource allocation, infrastructure strain, and the long-term sustainability of economic development.
- S: Critics argue that population control measures sometimes take a backseat to electoral politics, where the promise of welfare benefits secures larger voting blocs rather than addressing demographic challenges.
- a) QPRS



b) PQSR



c) QRPS



d) RQPS



The correct order of the sentences to form a coherent paragraph is Q, R, P, S.

Explanation:

- **Q** introduces the topic by stating the fact of India's rapid population growth and its status as the most populous country, setting the context for the paragraph.
- R follows logically, highlighting the consequences of this population growth, such as resource allocation and infrastructure strain, which builds on the issue introduced in
- **P** then discusses the government's response, connecting the population issue to political considerations and introducing the idea of political motivations.
- **S** concludes the paragraph by elaborating on the political angle, explaining how electoral politics can overshadow population control efforts, providing a critical perspective that ties back to P.

Explanation:

Coherent Paragraph:

India's population continues to grow rapidly, making it the most populous country in the world as of 2023, with demographic trends showing varied regional growth rates. This situation has raised concerns about resource allocation, infrastructure strain, and the long-term sustainability of economic development. The government's policies often reflect attempts to balance population control with political considerations, as some politicians view large voter bases as advantageous vote banks. Critics argue that population control measures sometimes take a backseat to electoral politics, where the promise of welfare benefits secures larger voting blocs rather than addressing demographic challenges.

Four sentences are given below. Choose the sentence that contains an idiom related Q. 88 to "earn". a) After several warnings, he finally decided to mend his ways. b) She worked very hard to earn her stripes in the competitive corporate world. c) The project was completed ahead of schedule without any major issues. d) He agreed to help me out of the goodness of his heart. **Explanation:** • Earn one's stripes → An idiom meaning to gain experience, recognition, or respect through hard work or achievements. Originates from the idea of a soldier earning rank badges (stripes) through service. **Explanation:** • A) "Mend his ways" is also an idiom, but unrelated to "earn" — it means to improve one's behaviour. • C) No idiom present — just a plain factual sentence. • D) "Out of the goodness of his heart" is an idiomatic phrase meaning to do something from kindness, but again unrelated to "earn."

Q. 89 Convert the following sentence from passive to active voice: "The stunning landscapes of Kazakhstan are admired by tourists from all over the world for their unique beauty and diversity." Tourists admire the stunning landscapes of Kazakhstan for their unique ^{a)} beauty and diversity. The stunning landscapes of Kazakhstan admire tourists for their unique b) beauty and diversity. The unique beauty and diversity of Kazakhstan admire tourists from all c) over the world. Tourists are admiring the stunning landscapes of Kazakhstan for their d) unique beauty and diversity. **Explanation:** • In passive voice, "are admired by tourists" — the subject (landscapes) receives the action. • In active voice, the doer of the action (tourists) becomes the subject performing the verb admire. **Explanation:** Option A correctly changes the sentence into active voice while maintaining meaning and grammar. • Options B and C wrongly assign the action to the landscapes or beauty instead of tourists. • Option D is present continuous passive converted incorrectly with the wrong verb form.

Q. 90 Find the part of the sentence which contains an error: "Each of the political candidates, along with their campaign managers, were invited to participate in the televised debate on climate policy." a) Each of the political candidates b) along with their campaign managers c) were invited to participate d) in the televised debate on climate policy Detailed Explanation: • The sentence's real subject is "Each", which is singular. • Phrases like "along with their campaign managers" are parenthetical and do not change the number of the subject. • Therefore, the verb should be "was invited", not "were invited".

The following sentences (P, Q, R, S) form a coherent paragraph about the benefits of yoga. Arrange them in the correct order.

- P: Regular yoga practice improves flexibility, balance, and muscle strength, which contributes to overall physical health.
- Q: Yoga also reduces stress and anxiety by calming the mind and promoting mindfulness through breathing and meditation.
- R: Many people around the world have adopted yoga as a holistic approach to enhance both mental and physical well-being.
- S: Scientific studies support these benefits, indicating yoga's positive effects on cardiovascular health, immune function, and sleep quality.
- a) R P Q S
- b) P Q R S
- c) RSPQ
- d) QPSR

Explanation:

- R introduces yoga as a popular, holistic wellness approach.
- P describes key physical benefits.
- Q adds mental health advantages related to stress relief and mindfulness.
- S concludes by citing scientific validation of various health benefits.

Convert the following sentence from indirect speech to direct speech: Q. 92 The teacher said that some children were using abusive language in the classroom, which was disrupting the learning environment. The teacher said, "Some children use abusive language in the classroom, a) and it disrupts the learning environment." X The teacher said, "Some children are using abusive language in the classroom, b) which is disrupting the learning environment. The teacher said, "Some children used abusive language in the classroom, c) and it disrupted the learning environment." The teacher said, "Some children have been using abusive language in the d) classroom, which disrupts the learning environment." **Explanation:** 1. Reporting verb: • "said" → stays the same (no need for "told" since no listener is mentioned) 2. Tense shift reversal: **Explanation:** • Indirect: were using → Direct: are using • Indirect: was disrupting → Direct: is disrupting (Because the original speech likely used present tense, and it was shifted to past in indirect form) 3. Quotation marks added: • The teacher's exact words are now enclosed in quotes.

Q. 93 Four sentences are given below. Three of them are grammatically correct, and one contains an error. Identify the incorrect sentence. The teacher, along with her students, was invited to the cultural exchange ^{a)} program. X b) If I was you, I would reconsider taking that job offer. Neither the committee members nor the chairperson was aware of the c) sudden changes. d) The report was completed on time despite several unexpected challenges. **Detailed Explanation:** • A) ✓ Correct — "was invited" is correct because the subject is singular ("teacher") and the phrase "along with her students" doesn't change the number. **Explanation:** • B) X Incorrect — In hypothetical/imaginary situations, the correct form is "If I were you", not "If I was you" (subjunctive mood rule). • C) ✓ Correct — Here, the subject closest to the verb is "chairperson" (singular), so "was" is correct. • D) ✓ Correct — Grammatically and logically sound.

Q. 94 Choose the most appropriate phrasal verb to complete the sentence: "The outdoor concert had to be ________ because of the heavy downpour that flooded the entire venue during the rainy season." a) called off b) put up c) carried on d) set out Explanation: • Call off ✓ → to cancel an event; perfectly fits the idea of a concert being cancelled due to rain. • Put up X → to raise something or provide accommodation; doesn't fit here. • Carry on X → to continue something, opposite of cancelling. • Set out X → to begin a journey or activity; doesn't match the situation.

Choose the correct meaning of the idiom "burn the candle at both ends" as used in the sentence below:

"Working two jobs during the day and studying at night, Ravi has been burning the candle at both ends for months."

a) To waste resources recklessly



b) To work excessively hard over a long period, often to the point of exhaustion



c) To spend too much money on unnecessary things



d) To light up a situation or event



Explanation:

Explanation:

- The idiom refers to overusing one's energy or resources by working from early morning to late night (like a candle burning from both ends).
- Other options change the meaning only B fits the context.

Q. 96

Choose the one-word substitution for the sentence below:

"A person who strongly opposes and actively fights against established traditions, beliefs, or institutions."

a) Iconoclast



b) Anarchist



c) Rebel



d) Heretic



Detailed Explanation:

Iconoclast ✓ — person who challenges or destroys established beliefs, institutions, or symbols (origin: someone who destroyed religious icons). Perfect fit.

- Anarchist
 — one who believes in abolishing all forms of government, not necessarily all traditions or beliefs.
- Rebel X someone who resists authority, often politically; broader and less specific than opposing established traditions.
- Heretic X someone whose opinions deviate from an established religious doctrine; narrower in scope than iconoclast.

Find the part of the sentence that contains an error:

"It is high time the government takes strict measures to curb the rising cases of cyber fraud across the country."

a) It is high time



b) the government



c) takes strict measures



d) to curb the rising cases of cyber fraud across the country



Detailed Explanation:

• Rule:

After "It's (high/about) time..." \rightarrow use subject + simple past verb to express that something should already have happened.

Example: It is high time the government took strict measures.

- The given sentence wrongly uses "takes" (present tense) instead of "took" (past tense form used for suggestion/urgency).
- Corrected sentence:

It is high time the government took strict measures to curb the rising cases of cyber fraud across the country.

Q. 98

Explanation:

Four words are given below. Choose the word that is incorrectly spelt.

a) Accommodate



b) Definitely



c) Occassion



d) Privilege



Detailed Explanation:

- Accommodate ✓ correct spelling (double "c" and double "m").
- Definitely ✓ correct spelling (not "definately").
- Occassion

 incorrect; correct spelling is Occasion (only one "s" after the "a").
- Privilege ✓ correct spelling.

Convert the following sentence from active to passive voice:

"Arijit Singh sings soulful songs that captivate millions of listeners."

a) Soulful songs are sung by Arijit Singh that captivate millions of listeners.



b) Soulful songs that captivate millions of listeners are sung by Arijit Singh.



c) Soulful songs that captivate millions of listeners is sung by Arijit Singh.



d) Millions of listeners are captivated by Arijit Singh who sings soulful songs.



Explanation:

Explanation:

The passive voice of the sentence "Arijit Singh sings soulful songs that captivate millions of listeners" is: "Soulful songs that captivate millions of listeners are sung by Arijit Singh."

Explanation: In the passive voice, the object of the active sentence (soulful songs) becomes the subject, and the verb is changed to a form of "to be" followed by the past participle of the main verb. The original subject (Arijit Singh) is then introduced with "by".

Q. 100

Choose the word that is the opposite in meaning to "beige" in the sentence below:

"She preferred vibrant colours in her living room rather than the plain beige walls that were there before."

a) Crimson



b) Off-white



c) Taupe



d) Cream



Explanation:

- Beige \rightarrow a light, dull, pale brownish colour; neutral and subdued.
- Crimson (✓) → a bright, deep red strongly contrasts with the plainness and neutrality of beige, making it the best antonym in the context of colours.
- Off-white $\times \rightarrow$ still a neutral, pale shade, close to beige.
- Taupe $\times \rightarrow$ a greyish-brown color, also neutral, similar in tone to beige.
- Cream $\times \rightarrow$ a pale yellowish-white colour, still in the muted/neutral family.