

ckets. If people wear jackets, then they feel warm. Today, people are not wearing jackets.
ions can be drawn?

- A. It is definitely cold
- B. It is definitely not cold
- C. It might not be cold
- D. It is definitely warm

Answer: C

Sol: Given: If it is cold, then people wear jackets. If people wear jackets, then they feel warm. Today, people are not wearing jackets.
Let’s understand it in a simple.
If it is cold → people wear jackets
If people wear jackets → they feel warm
Today, people are not wearing jackets
From the first statement:
If it were cold, people would be wearing jackets.
But they are not wearing jackets.
So, it is possible that it is not cold.
We cannot be 100% sure, but this is the most logical conclusion.
Now, we check the options:
Option (a): It is definitely cold - **(Not correct)**
Option (b): It is definitely not cold - Too strong **(not definite)**
Option (c): It might not be cold - **(Correct)**
Option (d): It is definitely warm - **(No such information given)**
So, **It might not be cold** conclusions can be drawn.
Thus, correct option is (c).

Q.2 Find the odd one out.
Yamuna, Narmada, Kaveri, Tapti, Tungabhadra

- A. Yamuna
- B. Narmada
- C. Tapti
- D. Kaveri

Answer: A

Sol: Narmada, Kaveri, Tapti and **Tungabhadra** mainly flow through central or southern India.
Yamuna flows mainly in northern India.
So, **Yamuna** is different from the others.
Thus, correct option is (a).

Q.3 Some social issues and their possible solutions are given. Choose the most appropriate and emotionally intelligent action.
You are a project lead in an IT firm. One of your key team members has recently started missing deadlines and appears disengaged. When asked, they insist everything is fine. The workload is heavy, and team morale may be affected if the issue continues.
What should you do?

- A. Ignore the behavior since they say nothing is wrong
- B. Publicly point out their declining performance to push improvement
- C. Have a private, supportive conversation, offer help, and adjust workload if needed
- D. Immediately replace them to avoid risk

Answer: C

Sol: Given: You are a project lead in an IT firm. One of your key team members has recently started missing deadlines and appears disengaged. When asked, they insist everything is fine. The workload is heavy, and team morale may be affected if the issue continues.
Let’s look at it in a simple.
The team member is:
Missing deadlines
Appearing disengaged
Saying “everything is fine,” but performance is clearly affected

As a project lead, the goal is to solve the problem without harming morale.

We check the options:

Option (a): Ignore the behavior

The problem may get worse and affect the team.

Option (b): Publicly point out the issue

This can embarrass the employee and lower morale.

Option (c): Have a private, supportive conversation, offer help, and adjust workload if needed

This is respectful, supportive, and likely to fix the issue.

Option (d): Immediately replace them

Too harsh and unnecessary without understanding the cause.

Thus, correct option is (c).

Q.4 From the word “BRIGHT”, how many meaningful English words can be formed using all the letters exactly once?

- A. One
- B. Two
- C. Three
- D. More than three

Answer: A

Sol: Given: BRIGHT

Letters: B, R, I, G, H, T

We must form meaningful English words using all six letters exactly once.

Check possible words: BRIGHT

Uses B R I G H T → all letters used once

So, **one** meaningful English words can be formed using all the letters exactly once.

Thus, correcet option is (a).

Q.5 Three of the following four letter groups are alike in a certain pattern and form a group. Find the one which does not belong to that group.

- A. AABBB
- B. MMNN
- C. XXYY
- D. PQRS

Answer: D

Sol: Logic: 1st two letter are same and 2nd two letter are same.

Now, we check each options.

Option (a): AABBB (**Follow**)

Option (b): MMNN (**Follow**)

Option (c): XXYY (**Follow**)

Option (d): PQRS (**Not Follow**)

So, **PQRS** is odd one out.

Thus, correct option is (d).

Q.6 What will come at the place of the question mark (?) in the following number series?

3, 6, 11, 18, 27, ?

- A. 36
- B. 38
- C. 40
- D. 42

Answer: B

Sol: Given: 3, 6, 11, 18, 27, ?

Logic: Numbers are increasing odd number from 3.

3 + 3 = 6

6 + 5 = 11

11 + 7 = 18

18 + 9 = 27

27 + 11 = 38

So, the missing term is **38**.
Thus, correct option is (b).

Q.7 Select the most logical sequence:
Seed, Plant, Flower, Fruit

- A. Seed, Plant, Flower, Fruit
- B. Plant, Seed, Flower, Fruit
- C. Flower, Seed, Plant, Fruit
- D. Seed, Flower, Plant, Fruit

Answer: A

Sol: Given: Seed, Plant, Flower, Fruit
A plant grows in this order:
Seed is sown first
It grows into a plant
The plant produces a flower
The flower turns into a fruit
So, the correct sequence is: **Seed → Plant → Flower → Fruit**
Thus, correct option is (a).

Q.8 Find the missing number in the series:
20, 17, 13, 8, ?

- A. 2
- B. 3
- C. 4
- D. 5

Answer: A

Sol: Given: 20, 17, 13, 8, ?
Logic: Numbers are decreasing natural number from 3.
20 - 3 = 17
17 - 4 = 13
13 - 5 = 8
8 - 6 = 2
So, the missing term is **2**.
Thus, correct option is (a).

Q.9 In a situation where a team member takes credit for your work during a meeting, what would be the most appropriate response?

- A. Confront them angrily in front of everyone
- B. Ignore the issue completely
- C. Discuss the matter privately and clarify contributions calmly
- D. Complain about them to others

Answer: C

Sol: Given: In a situation where a team member takes credit for your work during a meeting.
Explanation:
If a team member takes credit for your work, you should not get angry or create a scene. Ignoring it is also not a good idea because it can happen again. Complaining to others only creates negativity.
The best thing to do is to talk to that person privately, explain the situation calmly, and clearly tell them about your contribution.
So, **Discuss the matter privately and clarify contributions calmly** would be the most appropriate response.
Thus, correct option is (c).

Q.10 In this question, four sets of name and address are given, out of which two are exactly the same. Identify those two and choose the correct answer.

- 1. Mr. A. K. Sharma, Manager, State Bank of India, Branch No. 45, Mall Road, Kanpur - 208001
- 2. Mr. A. K. Sharma, Manager, State Bank of India, Branch No. 45, Mall Road, Kanpur - 208001
- 3. Mr. A. K. Sharma, Manager, State Bank of India, Branch No. 54, Mall Road, Kanpur - 208001
- 3. Mr. A. K. Sharma, Manager, State Bank of India, Branch No. 45, Mall Road, Kanpur - 208011

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

Answer: A

Sol: Given:

- 1. Mr. A. K. Sharma, Manager, State Bank of India, Branch No. 45, Mall Road, Kanpur – 208001
- 2. Mr. A. K. Sharma, Manager, State Bank of India, Branch No. 45, Mall Road, Kanpur – 208001
- 3. Mr. A. K. Sharma, Manager, State Bank of India, Branch No. 54, Mall Road, Kanpur – 208001
- 4. Mr. A. K. Sharma, Manager, State Bank of India, Branch No. 45, Mall Road, Kanpur – 208011

Now, we check each options.

Option (a): 1 and 2 (Correct)

All details are identical, so these two are exactly the same.

Option (b): 2 and 3

Branch No. 45 vs 54 (different)

Other details same, but one difference is enough to make them not identical.

Hence, incorrect.

Option (c): 1 and 4

Branch No.: Same (45)

PIN Code: 208001 vs 208011 (different)

Address is not exactly the same, so incorrect.

Option (d): 3 and 4

Branch No.: 54 vs 45 (different)

PIN Code: 208001 vs 208011 (different)

Multiple differences → not identical.

So, **1 and 2** are exactly the same.

Thus, correct option is (a).

Q.11 If A = 5, B = 7, and C = 3, what is the value of ((A × B) + C) mod 9?

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

Answer: B

Sol: Given: If A = 5, B = 7, and C = 3, what is the value of ((A × B) + C) mod 9?

Using **BODMAS** rule.

Operation preference wise	Symbol
Brackets	$[], , ()$
Orders, of	$(power), \sqrt{(root)}, of$
Division	$\div$
Multiplication	$\times$
Addition	$+$
Subtraction	$-$

New equation: $((5 \times 7) + 3) \bmod 9 = ?$

$(35 + 3) \bmod 9 = ?$

$38 \bmod 9 = ?$

$38 \div 9 = 4$ remainder **2**

Thus, correct option is (b).

Q.12 In the following question, a group of letters is related to another group in a particular way. Find the group that completes the second pair using the same pattern.

HARD : H18D :: SOFT : ?

- A. S15T
- B. S21T
- C. T15S
- D. R15U

Answer: A

Sol: Given: HARD : H18D :: SOFT : ?

1	2	3	4	5	6	7	8	9	10	11	12	13
A	B	C	D	E	F	G	H	I	J	K	L	M
Z	Y	X	W	V	U	T	S	R	Q	P	O	N
26	25	24	23	22	21	20	19	18	17	16	15	14

Logic: 1st and 4th letter are same and from the middle letters, the higher alphabetical value.

For, HARD : H18D

H = H, R = 18, D = D

Similarly,

SOFT : ?

S = S, O = 15, T = T

So, SOFT : **S15T**

Thus, correct option is (a).

- Q.13** In a coding system, a number is coded as two digits where:
- The first digit is the remainder when the number is divided by 5.
 - The second digit is the remainder when the number is divided by 9.
- Which is the least number with the code 3, 4?

- A. 13
B. 28
C. 38
D. 43

Answer: A

Sol: Given conditions:

Let the required number be N.

Remainder when divided by 5 = 3 $\rightarrow (N \equiv 3 \pmod{5})$

Remainder when divided by 9 = 4 $\rightarrow (N \equiv 4 \pmod{9})$

Now check the options:

Option (a): 13 $\rightarrow (13 \div 5 = 2)$ remainder 3, $(13 \div 9 = 1)$ remainder 4

Option (b): 28 $\rightarrow$ remainder 3 ($\div 5$) but remainder 1 ($\div 9$)

Option (c): 38 $\rightarrow$ remainder 3 ($\div 5$) but remainder 2 ($\div 9$)

Option (d): 43 $\rightarrow$ remainder 3 ($\div 5$) but remainder 7 ($\div 9$)

So, **13** is the least number with the code 3, 4. (13 is the least number that gives remainders 3 and 4 respectively.)

Thus, correct option is (a).

- Q.14** Here a statement is given followed by four options. Choose the option which, if true, best supports the statement.
Statement: Educational experts say, "Early exposure to mathematics improves problem-solving skills later in life."

- A. Many adults find mathematics difficult.
B. Children who practice math regularly tend to perform better in analytical tasks as adults.
C. Mathematics is compulsory in most schools.
D. Problem-solving skills depend mainly on intelligence.

Answer: B

Sol: Statement: Educational experts say, “Early exposure to mathematics improves problem-solving skills later in life.”
Let’s see which option best supports the given statement.
So, we need an option that directly shows a positive long-term effect of early math learning.
Now, we check each options.
Option (a): Many adults find mathematics difficult.
This does not support the statement. It talks about difficulty, **not** improvement.
Option (b): Children who practice math regularly tend to perform better in analytical tasks as adults.
This directly supports the statement by showing that early math practice leads to better problem-solving/analytical ability later in life.
Option (c): Mathematics is compulsory in most schools.
This is a fact about education policy, **not** about its effect.
Option (d): Problem-solving skills depend mainly on intelligence.
This actually weakens the statement by suggesting math exposure is **not** important.
Thus, correct option is (b).

Q.15 Some mathematical operations are defined below. Find the correct answer.
If $A \star B = A^2 + B^2 - A$, find $4 \star 3$.

- A. 19
- B. 21
- C. 22
- D. 25

Answer: B

Sol: Given: If $A \star B = A^2 + B^2 - A$, find $4 \star 3$.
Substitute values:
 $A = 4, B = 3$
 $4 \star 3 = 4^2 + 3^2 - 4$
 $= 16 + 9 - 4$
 $= 21$
Thus, correct option is (b).

Q.16 An organization uses an employee ID system as follows:
COMPANY (2) + DEPARTMENT (3) + YEAR (2) + EMPLOYEE SERIAL (3)
If there are 40 companies, 120 departments, and 6 working years, how many employees can be uniquely identified using this system?

- A. 8,64,000
- B. 28,80,000
- C. 8,64,00,000
- D. 2,88,000

Answer: B

Sol: Given ID Structure:
COMPANY (2) + DEPARTMENT (3) + YEAR (2) + EMPLOYEE SERIAL (3)
This means:
Each company code can represent 40 companies
Each department code can represent 120 departments
Each year code can represent 6 years
Employee serial (3 digits) → from 001 to 999 = 999 employees
Total unique employees = Companies × Departments × Years × Employee Serials
 $= 40 \times 120 \times 6 \times 999$
 $40 \times 120 = 4800$
 $4800 \times 6 = 28,800$
 $28,800 \times 999 \approx 28,80,000$
Thus, correct option is (b).

Q.17 In the following question, select the related word from the given alternatives.
Copper : Conductor :: Rubber : ?

- A. Metal
- B. Insulator
- C. Wire
- D. Plastic

Answer: B

Sol: Given: Copper : Conductor :: Rubber : ?
Copper is a material that **conducts** electricity.
Similarly,
Rubber : ?
Rubber is a material that does not conduct electricity. Such materials are called **insulators**.
Thus, correct option is (b).

- Q.18 Statements:**
- 1. All teachers are educators.
 - 2. Some educators are researchers.
 - 3. No researcher is careless.
- Conclusions:**
- I. Some educators are not careless.
 - II. All teachers may be researchers.
- A. Only I follows
B. Only II follows
C. Both I and II follow
D. Neither I nor II follows

Answer: C

Sol: Statements:

- 1. All teachers are educators.
- 2. Some educators are researchers.
- 3. No researcher is careless.

From the given statements possible Venn diagram will be.



Conclusions:

- I. Some educators are not careless. (**True**, some educators are researchers and no researcher is careless, so that means some educators are not careless).
- II. All teachers may be researchers. (**True**, all teachers are educators and some educators are researchers, so all teachers may be researchers).

So, **Both I and II follow**.
Thus, correct option is (c).

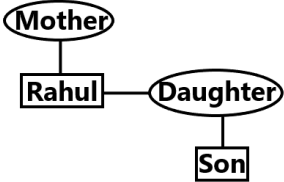
- Q.19** Pointing to a photograph, Rahul says, “He is the son of my mother’s only daughter.” How is the man in the photograph related to Rahul?
- A. Son
 - B. Brother
 - C. Nephew
 - D. Cousin

Answer: C

Sol: Given: Pointing to a photograph, Rahul says, “He is the son of my mother’s only daughter.”

Symbol in Diagram	Meaning
- / O	Female
+ / □	Male
=	Married Couple
—	Siblings
	Difference Of Generation

From the given information blood relation diagram will be.



So, the man in the photograph is **nephew** of Rahul.
Thus, correct option is (c).

Q.20 Statement: A manufacturing company is debating whether to invest heavily in automation or continue relying on manual labor. Automation reduces long-term costs but requires high initial investment. Manual labor is flexible but leads to higher recurring expenses and lower efficiency. What should be the most appropriate decision-making approach?

- A. Invest in automation to reduce long-term costs
- B. Continue manual labor to avoid high investment
- C. Evaluate cost-benefit, scalability, and long-term business goals before deciding
- D. Follow the industry trend adopted by competitors

Answer: C

Sol: Statement: A manufacturing company is debating whether to invest heavily in automation or continue relying on manual labor. Automation reduces long-term costs but requires high initial investment. Manual labor is flexible but leads to higher recurring expenses and lower efficiency. Let's answer it in a simple.

The company has two options, and both have advantages and disadvantages:

Automation → high initial cost but lower long-term cost and better efficiency

Manual labor → flexible but higher recurring cost and lower efficiency

So, the best decision is not to choose blindly. The company should carefully analyse all factors before deciding.

Now, check the options:

Option (a): Invest in automation to reduce long-term costs

This considers only one side of the problem.

Option (b): Continue manual labor to avoid high investment

This ignores long-term efficiency and cost.

Option (c): Evaluate cost-benefit, scalability, and long-term business goals before deciding

This considers all important factors and is the most balanced approach.

Option (d): Follow the industry trend adopted by competitors

Decisions should be based on company needs, not just trends.

Thus, correct option is (c).

Q.21 A person walks 12 km to the east, then 5 km to the south, and finally 12 km to the west. What is the straight-line distance between his final position and the starting point?

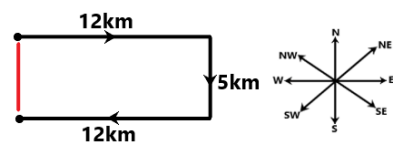
- A. 5 km
- B. 7 km
- C. 12 km
- D. 17 km

Answer: A

Sol: Given:

A person walks 12 km to the east, then 5 km to the south, and finally 12 km to the west.

From the given information path diagram will be.



So finally, the person is only **5 km south** of the starting point.

Thus, correct option is (a).

Q.22 Each question has four options. Three of them go together based on a common rule. One is different. Identify the odd one out.

- A. 8 - 17
- B. 14 - 29
- C. 20 - 41
- D. 16 - 31

Answer: D

Sol: Logic: (1st number × 2) + 1 = 2nd number

Now, we check each options.

Option (a): 8 - 17

$(8 \times 2) + 1 = 16 + 1 = 17$

Option (b): 14 - 29

$(14 \times 2) + 1 = 28 + 1 = 29$

Option (c): 20 - 41

$(20 \times 2) + 1 = 40 + 1 = 41$
Option (d): $16 - 31$
 $(16 \times 2) + 1 = 32 + 1 = \cancel{31}$
So, **16 - 31** is odd one out.
Thus, correct option is (d).

Q.23 In the following question, select the number that will replace the question mark (?) to complete the analogy:
 $6 : 36 :: 9 : ?$

A. 72
B. 81
C. 54
D. 63

Answer: B

Sol: Given: $6 : 36 :: 9 : ?$
Logic: $1st\ number^2 = 2nd\ number$
For, $6 : 36$
 $6^2 = 36$
Similarly,
 $9^2 = \mathbf{81}$
Thus, correct option is (b).

Q.24 Few letters are given followed by a question mark (?). These letters follow a certain pattern. Find the next letter.
Series: F, H, K, O, ?

A. S
B. T
C. U
D. V

Answer: B

Sol: Given: F, H, K, O, ?

1	2	3	4	5	6	7	8	9	10	11	12	13
A	B	C	D	E	F	G	H	I	J	K	L	M
Z	Y	X	W	V	U	T	S	R	Q	P	O	N
26	25	24	23	22	21	20	19	18	17	16	15	14

Logic: Letters are increasing natural number from 2.
 $F + 2 = H$
 $H + 3 = K$
 $K + 4 = O$
 $O + 5 = T$
So, the missing term is **T**.
Thus, correct option is (b).

Q.25 Assuming that the data given in the statements are definitely true, which of the following conclusions can be logically deduced?
Statement:
Many cities have introduced odd-even vehicle rules to reduce air pollution.
Conclusions:
I. Vehicle emissions contribute to air pollution.
II. All vehicles will be banned in cities.

A. Only I follows
B. Only II follows
C. Both I and II follow
D. Neither I nor II follows

Answer: A

Sol: Statement:

Many cities have introduced odd-even vehicle rules to reduce air pollution.

Conclusions:

I. Vehicle emissions contribute to air pollution.

This is logical. Otherwise, there would be no need to control vehicles.

II. All vehicles will be banned in cities.

This is not mentioned and is an extreme assumption.

So, **Only I follows.**

Thus, correct option is (a).

Q.26 Consider the following statements about Article 32 of the Indian Constitution :

1. It provides the right to move the Supreme Court for enforcement of Fundamental Rights.
2. The Supreme Court may issue writs such as habeas corpus and mandamus under it.
3. It can be suspended during a National Emergency.

Which of the statements given above is/are correct?

- A. 1 and 2 only
- B. 2 and 3 only)
- C. 1 and 3 only
- D. 1, 2 and 3

Answer: D

Sol: The correct answer is (d) 1, 2 and 3

Explanation

- **Statement 1 is correct:** Article 32, known as the "Right to Constitutional Remedies," allows individuals to approach the Supreme Court directly if their Fundamental Rights are violated. Dr. B.R. Ambedkar famously called it the "Heart and Soul of the Constitution."
- **Statement 2 is correct:** Under this Article, the Supreme Court has the power to issue five types of writs: Habeas Corpus, Mandamus, Prohibition, Certiorari, and Quo-Warranto.
- **Statement 3 is correct:** During a National Emergency (Article 352), the President can suspend the right to move any court for the enforcement of Fundamental Rights under Article 359, which includes the remedies under Article 32.

Information Booster

- Article 32 is itself a Fundamental Right, which makes the Supreme Court the "Protector and Guarantor" of our rights. Unlike Article 226 (which gives High Courts writ powers), Article 32 is limited only to the enforcement of Fundamental Rights and cannot be used for ordinary legal rights. However, the Supreme Court has ruled that Article 32 is a "Basic Structure" of the Constitution, meaning it cannot be taken away even by a Constitutional Amendment.

Q.27 Consider the following statements:

1. Sher Shah Suri introduced a standardized silver coin known as the Rupiya .
2. Firoz Shah Tughlaq shifted the capital permanently from Delhi to Agra.

- A. Only 1
- B. Only 2
- C. Both
- D. Neither

Answer: A

Sol: The correct answer is **(A) Only 1**

Explanation:

- **Statement 1 is correct:** Sher Shah Suri (reigned 1540–1545) issued the silver coin called the 'Rupiya,' which weighed 178 grains. This coin remained the standard for the Mughal Empire and eventually became the precursor to the modern Indian Rupee.
- **Statement 2 is incorrect:** Firoz Shah Tughlaq (Tughlaq Dynasty) did not apital to Agra. The city of Agra was actually founded and established as a capital by **Sikandar Lodi** in 1504.

Information Booster:

- **Sher Shah Suri:** He is also famous for rebuilding the Grand Trunk Road (Sadak-e-Azam) stretching from Chittagong to Kabul and establishing a robust postal and administrative system.
- **Firoz Shah Tughlaq:** Known for building canal systems (like the Western Yamuna Canal) and founding cities like Hisar and Firozabad.

Additional Knowledge:

- **Muhammad bin Tughlaq:** Famous for his failed attempt to shift the capital from Delhi to Daulatabad (Devagiri) in the 14th century.
- **Agra:** Became the prominent capital during the Mughal era, specifically under Akbar, Jahangir, and Shah Jahan.

Q.28 Which of the following statements correctly describes the literary recognition associated with *Midnight’s Children* by Salman Rushdie?

- A. It received the Booker Prize and was later awarded the “Booker of Bookers.”
- B. It won the Pulitzer Prize for Fiction.
- C. It earned the Sahitya Akademi Award for English literature.
- D. It was awarded the Nobel Prize in Literature.

Answer: A

Sol: The correct answer is **(A) It received the Booker Prize and was later awarded the “Booker of Bookers.”**

Explanation:

- **Midnight's Children (1981):** This novel is a masterpiece of magic realism that deals with India's transition from British colonialism to independence and partition.
- It won the **Booker Prize** in 1981. To mark the 25th and 40th anniversaries of the prize, it was awarded the 'Booker of Bookers' (1993) and the 'Best of the Booker' (2008), respectively, cementing its status as the greatest winner in the prize's history.

Information Booster:

- The protagonist, Saleem Sinai, is born at the exact moment of India's independence, giving him and 1,000 other children born in that hour special telepathic powers.
- Salman Rushdie was knighted for his services to literature in 2007.

Additional Knowledge:

- **Pulitzer Prize (Option B):** This is primarily an American award for journalism and arts; Rushdie, a British-Indian writer, is not typically associated with it.
- **Sahitya Akademi Award (Option C):** While an important Indian literary honor, *Midnight's Children* is most globally renowned for its Booker legacy.
- **Nobel Prize in Literature (Option D):** Although widely considered a candidate for years, Salman Rushdie has not yet been awarded the Nobel Prize.

Q.29 A body increases its velocity from 10 m/s to 30 m/s in 4 seconds under uniform acceleration. What is the acceleration?

- A. 2 m/s²
- B. 4 m/s²
- C. 5 m/s²
- D. 10 m/s²

Answer: C

Sol: The correct answer is **(C) 5 m/s²**

Explanation:

- Acceleration is defined as the rate of change of velocity with respect to time.
- The formula for uniform acceleration is $a = \frac{v - u}{t}$, where 'v' is the final velocity, 'u' is the initial velocity, and 't' is the time interval.
- Given: Initial velocity (u) = 10 m/s, Final velocity (v) = 30 m/s, Time (t) = 4 seconds.
- Calculation: $a = \frac{30 - 10}{4} = \frac{20}{4} = 5m/s^2$.

Information Booster:

- **SI Unit:** The standard unit for acceleration is meters per second squared (m/s²).
- **Vector Quantity:** Acceleration has both magnitude and direction. If the velocity decreases, it is termed as deceleration or retardation (negative acceleration).
- **Equations of Motion:** This calculation is based on the first equation of motion: $v = u + at$.

Additional Knowledge:

- **Option A (2 m/s²):** Incorrect; this would only result in a velocity increase of 8 m/s over 4 seconds (10 + 8 = 18).
- **Option B (4 m/s²):** Incorrect; this would result in a velocity of 26 m/s after 4 seconds.
- **Option D (10 m/s²):** Incorrect; this represents the approximate acceleration due to gravity ($g \approx 9.8m/s^2$), which would make the velocity 50 m/s after 4 seconds.

Q.30 Which Indian authority is primarily responsible for setting national standards and guidelines for ambient air quality monitoring?

- A. National Green Tribunal
- B. Central Pollution Control Board
- C. Ministry of Environment, Forest and Climate Change
- D. Indian Meteorological Department

Answer: B

Sol: The correct answer is **(B) Central Pollution Control Board**

Explanation:

- The **Central Pollution Control Board (CPCB)** is a statutory organization constituted in September 1974 under the Water (Prevention and Control of Pollution) Act, 1974.
- It was later entrusted with powers and functions under the Air (Prevention and Control of Pollution) Act, 1981.
- The CPCB is responsible for establishing the **National Ambient Air Quality Standards (NAAQS)**, which set limits for various pollutants like PM_{10} , $PM_{2.5}$, SO_2 , NO_2 , etc.

Information Booster:

- **National Air Quality Index (AQI):** Launched in 2014 with the tagline 'One Number- One Color-One Description' to inform the public about air quality status.
- **SAMEER App:** An application developed by CPCB to provide real-time updates on the AQI across various cities in India.

Additional Knowledge:

- **National Green Tribunal (Option A):** A specialized judicial body for effective and expeditious disposal of cases relating to environmental protection; it adjudicates rather than sets monitoring standards.
- **Ministry of Environment, Forest and Climate Change (Option C):** The nodal ministry for environmental policy in India; CPCB works under this Ministry, but the technical standard-setting is the Board's primary task.
- **Indian Meteorological Department (Option D):** Responsible for meteorological observations, weather forecasting, and seismology, though it collaborates on air quality forecasting (like SAFAR).

Q.31 The revival and modernization of Kathakali in the 20th century is widely credited to:

- A. Vallathol Narayana Menon
- B. Swati Tirunal
- C. Uday Shankar
- D. Birju Maharaj

Answer: A

Sol: The correct answer is **(A) Vallathol Narayana Menon**

Explanation:

- **Kathakali** is a highly stylized classical dance-drama from Kerala, known for its elaborate makeup, costumes, and mudras.
- By the early 20th century, Kathakali was in decline. The renowned Malayalam poet **Vallathol Narayana Menon** established the **Kerala Kalamandalam** in 1930 to provide a platform for training and preserving this art form.
- His efforts brought Kathakali to the international stage and ensured its surgh institutionalized training.

Information Booster:

- **Vesham:** In Kathakali, characters are categorized by their makeup colors (Pacha for noble, Kathi for arrogant, Thadi for beard characters).
- It traditionally narrates stories from the Ramayana, Mahabharata, and Puranas.

Additional Knowledge:

- **Swati Tirunal (Option B):** A 19th-century King of Travancore and a great patron/composer of Carnatic music and Mohiniyattam.
- **Uday Shankar (Option C):** A pioneer of modern dance in India who merged Indian classical styles with Western ballet techniques.
- **Birju Maharaj (Option D):** A legendary master and leading exponent of the **Kathak** dance form, not Kathakali.

Q.32 The ionosphere lies mainly within which atmospheric layer?

- A. Troposphere
- B. Stratosphere
- C. Mesosphere
- D. Thermosphere

Answer: D

Sol: The correct answer is **(D) Thermosphere**

Explanation:

- The **ionosphere** is a region of the upper atmosphere that is ionized by solar radiation. It plays a critical role in radio communication as it reflects radio waves back to Earth.
- It primarily extends through the **Thermosphere**, from about 80 km to 400 km (though some definitions include parts of the mesosphere and exosphere).
- In this layer, temperatures increase rapidly with height because the gas molecules absorb high-energy X-rays and UV radiation from the Sun.

Information Booster:

- **Auroras:** The beautiful light displays known as Aurora Borealis and Aurora Australis occur in the ionosphere/thermosphere due to the interaction of charged particles with the Earth's magnetic field.
- **Radio Layers:** The ionosphere is subdivided into D, E, and F layers, which vary in density and height between day and night.

Additional Knowledge:

- **Troposphere (Option A):** The lowest layer where all weather phenomena occur; contains most of the atmosphere's mass.
- **Stratosphere (Option B):** Located above the troposphere; contains the ozone layer which protects us from UV rays.
- **Mesosphere (Option C):** The layer where most meteors burn up upon entry into the Earth's atmosphere; it is the coldest layer.

Q.33 Which of the following is NOT a prionrelated disease?

- A. Kuru
- B. Scrapie
- C. Alzheimer’s disease
- D. Creutzfeldt-Jakob disease

Answer: C

Sol: The correct answer is **(C) Alzheimer’s disease**

Explanation:

- **Prions** are misfolded proteins that have the ability to transmit their misfolded shape onto normal variants of the same protein. They cause several fatal neurodegenerative diseases.
- **Alzheimer’s disease** is a neurodegenerative disorder characterized by the buildup of amyloid-beta plaques and tau tangles, but it is not classified as a prion disease, although research into its 'prion-like' spread of proteins is ongoing.
- Prion diseases are often characterized by a 'spongiform' appearance of the brain under a microscope.

Information Booster:

- **Bovine Spongiform Encephalopathy (BSE):** Commonly known as 'Mad Cow Disease,' this is a well-known prion disease in cattle.
- **Nobel Prize:** Stanley B. Prusiner won the Nobel Prize in 1997 for his discovery of prions.

Additional Knowledge:

- **Kuru (Option A):** A prion disease identified in Papua New Guinea, associated with ritualistic cannibalism.
- **Scrapie (Option B):** A fatal, degenerative prion disease affecting the nervous systems of sheep and goats.
- **Creutzfeldt-Jakob disease (Option D):** The most common human prion disease, which leads to rapid mental deterioration and death.

Q.34 Under the Bharatiya Sakshya Adhiniyam, 2023, a confession to a police officer is:

- A. Always admissible
- B. Admissible in writing only
- C. Inadmissible unless before a Magistrate
- D. Valid if recorded by any officer

Answer: C

Sol: The correct answer is **(C) Inadmissible unless before a Magistrate**

Explanation:

- The **Bharatiya Sakshya Adhiniyam (BSA), 2023** has replaced the Indian Evidence Act of 1872.
- It retains the fundamental principle that a confession made to a police officer cannot be proved against a person accused of any offense (inadmissibility).
- This rule is designed to prevent custodial torture and coerced confessions. For a confession to be admissible as evidence, it must be recorded by a **Magistrate** under specific legal procedures where the accused is informed that they are not bound to make a confession.

Information Booster:

- **Discovery of Fact:** Similar to the old Section 27 of the Evidence Act, if a confession to a police officer leads to the discovery of a distinct fact (like the location of a weapon), that specific portion of information is admissible.
- **Electronic Evidence:** The BSA 2023 gives significantly more weight and clarity to the admissibility of electronic records as primary evidence.

Additional Knowledge:

- Confessions made while in police custody are also generally inadmissible unless made in the immediate presence of a Magistrate. This safeguard protects the fundamental right against self-incrimination (Article 20(3) of the Constitution).

Q.35 About ocean floor features:

1. Mid-ocean ridges are underwater mountain chains formed by tectonic activity.
2. Seamounts are flat-topped underwater hills formed mainly by sediment deposition.

Which of the above is/are correct?

- A. 1 only
- B. 2 only
- C. Both
- D. Neither

Answer: A

Sol: The correct answer is **(A) 1 only**

Explanation:

- **Statement 1 is correct:** Mid-ocean ridges (like the Mid-Atlantic Ridge) are formed at divergent plate boundaries where tectonic plates move apart, and magma rises to create new oceanic crust, forming massive mountain chains.
- **Statement 2 is incorrect:** Seamounts are underwater volcanic mountains that rise from the ocean floor but do not reach the surface. However, **flat-topped** underwater mountains are called **Guyots**. Seamounts are formed by volcanic activity, not primarily by sediment deposition.

Information Booster:

- **Abyssal Plains:** These are the flattest and smoothest regions on Earth, formed by the deposition of fine-grained sediments.
- **Oceanic Trenches:** The deepest parts of the ocean, formed at convergent plate boundaries (subduction zones), like the Mariana Trench.

Additional Knowledge:

- The ocean floor (bathymetry) is divided into four main regions: Continental Shelf, Continental Slope, Deep Sea Plain (Abyssal Plain), and Oceanic Deeps/Trenches. Seamounts and ridges are features of the deep sea floor.

Q.36 Which of the following states currently has a Legislative Council?

- A. Rajasthan
- B. Kerala
- C. Karnataka
- D. Odisha

Answer: C

Sol: The correct answer is **(C) Karnataka**

Explanation:

- A **Legislative Council (Vidhan Parishad)** is the upper house in some Indian states. As of current records, only **6 states** in India have a bicameral legislature (two houses).
- These states are: Uttar Pradesh, Bihar, Maharashtra, Karnataka, Andhra Pradesh, and Telangana.
- Karnataka's council has 75 members, who are either elected by local bodies, the Legislative Assembly, graduates, and teachers, or nominated by the Governor.

Information Booster:

- **Article 169:** Parliament can create or abolish a Legislative Council if the State Legislative Assembly passes a resolution with a special majority.
- Unlike the Assembly, the Council is a permanent house and cannot be dissolved; one-third of its members retire every two years.

Additional Knowledge:

- **Rajasthan (Option A) & Odisha (Option D):** These states have passed resolutions to create a Legislative Council, but they have not yet been formally established by Parliament.
- **Kerala (Option B):** Has a unicameral legislature (only Legislative Assembly).
- **Jammu & Kashmir:** Previously had a council, but it was abolished after the state was reorganized into Union Territories in 2019.

Q.37 About the Thar Desert:

1. Rainfall is generally low.
2. Many streams are seasonal.

- A. Only 1
B. Only 2
C. Both
D. Neither

Answer: C

Sol: The correct answer is **(C) Both**

Explanation:

- **Statement 1:** The Thar Desert (Great Indian Desert) is an arid region characterized by extreme temperatures and very low annual rainfall (usually less than 150 mm). It lies in the rain-shadow area of the Aravalli Range.
- **Statement 2:** Due to low precipitation and high evaporation, most water bodies in the region are ephemeral or seasonal. They appear only during the monsoon and disappear soon after into the sand.

Information Booster:

- **Luni River:** The only significant river in this region, which is also seasonal and ends in the Rann of Kutch (an endorheic river).
- **Indira Gandhi Canal:** The lifeline of the Thar Desert, bringing water from the Harike Barrage (Punjab) to green parts of Rajasthan.

Additional Knowledge:

- The Thar Desert is the world's most densely populated desert. It features diverse landforms like sand dunes (Barchans), mushroom rocks, and salt lakes (Playas) like Sambhar.

Q.38 India–Bhutan hydropower cooperation includes:

1. Joint development of river projects.
2. Export of surplus power to India.

- A. Only 1
B. Only 2
C. Both
D. Neither

Answer: C

Sol: The correct answer is **(C) Both**

Explanation:

- Hydropower cooperation is the cornerstone of the India-Bhutan bilateral economic relationship. It is often described as a 'win-win' partnership.
- **Statement 1:** India provides technical and financial assistance to Bhutan to develop its hydropower potential. Major projects include Chukha, Kurichhu, Tala, and Mangdechhu.
- **Statement 2:** A major portion of the power generated is consumed in Bhutan, and the surplus is exported to India, providing Bhutan with significant revenue and India with clean energy.

Information Booster:

- **Kholongchhu Project:** This was the first ever Joint Venture (JV) project between the two countries, marking a shift from the previous Inter-Governmental (IG) model.
- **BBIN MVA:** The Bhutan-Bangladesh-India-Nepal Motor Vehicles Agreement is another aspect of regional cooperation, although Bhutan has had internal domestic reservations regarding its implementation.

Additional Knowledge:

- The cooperation is guided by the 2006 Agreement on Cooperation in Hydropower and the subsequent Protocol signed in 2009. This relationship helps Bhutan maintain one of the highest per capita GDPs in South Asia.

Q.39 Regarding Olympicstandard swimming pools:

1. Minimum length is 50 meters.
2. Typical depth exceeds 2 meters.

- A. Only 1
- B. Only 2
- C. Both
- D. None

Answer: C

Sol: The correct answer is **(C) Both**

Explanation:

- **Statement 1:** Olympic games require a 'Long Course' pool, which has a standard length of exactly **50 meters**. (Short course pools are 25 meters).
- **Statement 2:** According to World Aquatics (formerly FINA) standards, the recommended depth for Olympic events is **2.0 meters to 3.0 meters**. A deeper pool is 'faster' because it allows waves to dissipate better, reducing surface turbulence that slows down swimmers.

Information Booster:

- **Lane Width:** An Olympic pool typically has 10 lanes, though only the middle 8 are used for racing, each being 2.5 meters wide.
- **Water Temperature:** Must be maintained between $25^{\circ}C$ and $28^{\circ}C$.

Additional Knowledge:

- Both statements accurately reflect the infrastructure requirements for high-level competitive swimming.Modern Olympic pools are often built with sophisticated overflow systems to further minimize wave resistance.

Q.40 The Cambridge equation in monetary theory is most closely associated with which concept?

- A. Income multiplier
- B. Cash balance approach
- C. Marginal propensity to save
- D. Liquidity trap

Answer: B

Sol: The correct answer is **(B) Cash balance approach**

Explanation:

- The **Cambridge Equation** (e.g., $M = kPY$) is a version of the Quantity Theory of Money developed by economists like Alfred Marshall and A.C. Pigou.
- It focuses on why individuals hold money as a **store of value** rather than just for transactions. It emphasizes the 'k' (the proportion of nominal income people want to hold as cash).
- This is distinct from Fisher's 'Transaction Approach' ($MT = PT$) which focuses on the velocity of money.

Information Booster:

- **Quantity Theory of Money:** Suggests that the general price level of goods and services is directly proportional to the amount of money in circulation.
- **Nominal vs Real:** The Cambridge approach highlights the demand for real balances.

Additional Knowledge:

- **Income Multiplier (Option A):** Associated with Keynesian economics, specifically the ratio of change in national income to the initial change in spending.
- **Marginal Propensity to Save (Option C):** The fraction of an increase in income that is saved ($MPS = \frac{\Delta S}{\Delta Y}$).
- **Liquidity Trap (Option D):** A situation where monetary policy becomes ineffective because interest rates are so low that people prefer to hold cash rather than invest.

Q.41 International Day of Yoga, first observed in 2015, was celebrated in 2025 as which edition?

- A. 9th
- B. 10th
- C. 11th

D. 12th

Answer: C

Sol: The correct answer is **(C) 11th**

Explanation:

- The International Day of Yoga is celebrated annually on **June 21** since its inception in 2015.
- Calculating the editions: 2015 (1st), 2016 (2nd), 2017 (3rd), 2018 (4th), 2019 (5th), 2020 (6th), 2021 (7th), 2022 (8th), 2023 (9th), 2024 (10th), and **2025 (11th)**.
- The idea was proposed by Prime Minister Narendra Modi during his speech at the United Nations General Assembly in 2014.

Information Booster:

- **Summer Solstice:** June 21 was chosen because it is the longest day of the year in the Northern Hemisphere and has special significance in many parts of the world.
- **UN Resolution:** The resolution was supported by a record 175 member states.

Additional Knowledge:

- The theme for each year changes to focus on different aspects of well-being (e.g., 'Yoga for Humanity' or 'Yoga for Self and Society'). The 2024 edition (10th) was celebrated with the Prime Minister leading the event in Srinagar.

Q.42 Which scheme provides financial support to farmers for installing microirrigation systems?

- A. PMFBY
- B. PMKSY
- C. NFSM
- D. RKVY

Answer: B

Sol: The correct answer is **(B) PMKSY**

Explanation:

- **Pradhan Mantri Krishi Sinchayee Yojana (PMKSY):** Launched in 2015 with the motto 'Har Khet Ko Pani.'
- The component 'Per Drop More Crop' specifically focuses on **micro-irrigation** (drip and sprinkler systems) to improve water use efficiency at the farm level.
- It aims to reduce water wastage, decrease the cost of cultivation, and increase crop productivity.

Information Booster:

- **Micro-irrigation Fund:** A dedicated fund of ₹5,000 crore was set up with NABARD to help states mobilize resources for expanding micro-irrigation coverage.
- **Advantages:** Reduced weed growth, targeted fertilizer application (fertigation), and energy saving.

Additional Knowledge:

- **PMFBY (Option A):** Pradhan Mantri Fasal Bima Yojana; a crop insurance scheme to provide financial support to farmers suffering crop loss due to natural calamities.
- **NFSM (Option B):** National Food Security Mission; aims to increase production of rice, wheat, pulses, and coarse cereals through area expansion and productivity enhancement.
- **RKVY (Option D):** Rashtriya Krishi Vikas Yojana; an umbrella scheme that gives states more flexibility in planning their agricultural and allied sector development.

Q.43 Which institution evolved into the World Trade Organization?

- A. IMF
- B. UNCTAD
- C. GATT
- D. IBRD

Answer: C

Sol: The correct answer is **(C) GATT**

Explanation:

- The **General Agreement on Tariffs and Trade (GATT)** was signed in 1947 as a temporary agreement to regulate international trade.
- After the **Uruguay Round** of negotiations (1986–1994), GATT was replaced by the **World Trade Organization (WTO)** on January 1, 1995.
- Unlike GATT, which dealt only with trade in goods, the WTO covers trade in services (GATS) and intellectual property (TRIPS).

Information Booster:

- **Marrakesh Agreement:** The formal agreement signed in 1994 that established the WTO.
- **Headquarters:** Geneva, Switzerland.
- **Principles:** Includes Most-Favoured-Nation (MFN) status and National Treatment.

Additional Knowledge:

- **IMF (Option A):** International Monetary Fund; focuses on global monetary cooperation and financial stability.
- **UNCTAD (Option B):** United Nations Conference on Trade and Development; focuses on development and trade issues of developing countries.
- **IBRD (Option D):** International Bank for Reconstruction and Development; part of the World Bank Group.

Q.44 The Indian Institute of Millets Research is headquartered at:

- A. Hyderabad
- B. Bengaluru
- C. Pune
- D. Lucknow

Answer: A

Sol: The correct answer is **(A) Hyderabad**

Explanation:

- The **ICAR-Indian Institute of Millets Research (IIMR)** is a premier agricultural research institute engaged in basic and strategic research on sorghum and other millets.
- It is located in Rajendranagar, **Hyderabad** (Telangana).
- It works under the aegis of the Indian Council of Agricultural Research (ICAR).

Information Booster:

- **International Year of Millets (2023):** Following a proposal by India, the UN declared 2023 as the International Year of Millets to promote their nutritional and ecological benefits.
- **Shree Anna:** The Union Budget of India (2023-24) referred to millets as 'Shree Anna' and designated IIMR Hyderabad as a 'Center of Excellence.'

Additional Knowledge:

- **Option B:** Bengaluru is home to the Indian Institute of Horticultural Research.
- **Option C:** Pune is home to the ICAR-Directorate of Onion and Garlic Research.
- **Option D:** Lucknow is home to the ICAR-Indian Institute of Sugarcane Research.

Q.45 Employment generation during the Eighth FiveYear Plan mainly emphasized growth in:

- A. Agriculture
- B. Public administration
- C. Manufacturing and services
- D. Mining

Answer: C

Sol: The correct answer is **(C) Manufacturing and services**

Explanation:

- The **Eighth Five-Year Plan (1992–1997)** was the first plan after the 1991 economic reforms. It focused on human resource development and modernization.
- A key objective was to generate employment opportunities by encouraging growth in the non-agricultural sectors, specifically **manufacturing and services**, as agriculture was already facing over-employment (disguised unemployment).
- It aimed for 'near full employment' by the turn of the century.

Information Booster:

- **Indicative Planning:** The 8th plan marked a shift from 'command planning' to 'indicative planning,' where the government played the role of a facilitator for the private sector.
- **Target Growth Rate:** It successfully achieved an average growth rate of 6.8% against a target of 5.6%.

Additional Knowledge:

- **Option A:** While agriculture remains the largest employer, the 8th plan specifically looked at diversifying the workforce to higher productivity sectors.
- **Option B:** Post-1991, the trend was to reduce the size of public administration through disinvestment and privatization, not to use it as the primary engine for job growth.

Q.46 Statement I: Rockcut Buddhist caves flourished during the early centuries CE.
Statement II: These caves served only residential purposes and not religious functions.

- A. Both true and II explains I
- B. Both true but II not explanation
- C. I true but II false
- D. Both false

Answer: C

Sol: The correct answer is **(C) I true but II false**

Explanation:

- **Statement I is true:** Rock-cut cave architecture reached its peak between the 2nd century BCE and the 7th century CE. Famous examples include Ajanta, Ellora, Karle, and Kanheri.
- **Statement II is incorrect:** These caves served two primary functions: **Viharas** (monasteries for residential use) and **Chaityas** (prayer halls or shrines for religious worship). Therefore, they were not 'only residential.'

Information Booster:

- **Chaitya:** A rectangular hall with a semi-circular end and a stupa at one end, used for congregational worship.
- **Vihara:** A central hall surrounded by small cells for monks to live in.
- **Lomas Rishi Cave:** One of the earliest examples of rock-cut architecture in India, located in the Barabar Hills (Mauryan period).

Additional Knowledge:

- Most of these caves were situated along major trade routes, supported by donations from kings, merchants, and guilds. The transition from timber to stone architecture is beautifully preserved in these sites.

Q.47 Statement 1: Balanced nutrition supports adolescent growth.
Statement 2: Adolescence requires higher nutrient intake.

- A. Both true
- B. Only 1
- C. Only 2
- D. Both false

Answer: A

Sol: The correct answer is **(A) Both true**

Explanation:

- **Statement 1:** Balanced nutrition (sufficient proteins, vitamins, minerals, and calories) is essential during adolescence as it is a period of rapid physical, cognitive, and emotional development.
- **Statement 2:** Adolescence (ages 10-19) is a peak growth phase (puberty). The body requires significantly higher amounts of energy (calories), iron (especially for girls), calcium (for bone density), and zinc compared to earlier childhood.

Information Booster:

- **Anaemia:** This is a major concern among Indian adolescents; the government launched the *Weekly Iron and Folic Acid Supplementation (WIFS)* program to address this.
- **Rashtriya Kishor Swasthya Karyakram (RKSJK):** A health program specifically for adolescents that includes nutrition as one of its key pillars.

Additional Knowledge:

- Inadequate nutrition during this stage can lead to stunted growth, delayed puberty, and long-term health complications. Thus, both statements accurately capture the relationship between nutrition and adolescent health.

Q.48 Assertion (A): India and Nepal have established mechanisms for sharing hydrological data on transboundary rivers during the monsoon season.
Reason (R): Such data sharing helps in flood forecasting and disaster preparedness in downstream areas.

- A. Both true and R explains A
- B. Both true but R not explanation
- C. A true R false
- D. A false R true

Answer: A

Sol: The correct answer is **(A) Both true and R explains A**

Explanation:

- **Assertion (A) is true:** India and Nepal share several major transboundary rivers (like Kosi, Gandak, and Mahakali). They have bilateral committees and specific mechanisms where Nepal provides water level and discharge data to India, especially during the monsoon (June–September).
- **Reason (R) is true:** Since Nepal is upstream, early information about rising water levels allows Indian authorities in Bihar and Uttar Pradesh to issue flood warnings, evacuate people, and manage dam/barrage operations. This is a classic example of disaster risk reduction (DRR).
- R directly explains **why** the mechanism in A exists.

Information Booster:

- **Kosi High Dam:** A proposed project between the two countries aimed at controlling floods and generating hydropower, though it remains a subject of negotiation.
- **Pancheshwar Multipurpose Project:** A centerpiece of the Mahakali Treaty (1996) between India and Nepal.

Additional Knowledge:

- Effective water diplomacy is crucial for the security of the Indo-Gangetic plains. The 'Kosi-Sorrow of Bihar' is a major driver for this bilateral hydrological cooperation.

Q.49 Regarding Indian participation in Winter Olympics:

1. India has competed in alpine skiing.
2. India has hosted Winter Olympics.
3. India has sent athletes in multiple editions.

- A. 1 and 3
- B. 2 and 3
- C. 1 and 2
- D. 1 only

Answer: A

Sol: The correct answer is **(A) 1 and 3**

Explanation:

- **Statement 1 is correct:** India has sent athletes to compete in **Alpine Skiing**, Luge, and Cross-Country Skiing. Names like Arif Khan (Beijing 2022) and Shiva Keshavan (multiple editions) are prominent.
- **Statement 2 is incorrect:** India has **never hosted** the Winter Olympics. The Winter Games are typically held in regions with significant snow and ice infrastructure (e.g., Beijing, Pyeongchang, Sochi).
- **Statement 3 is correct:** India has participated in several Winter Olympic Games since its debut in **1964 (Innsbruck)**. Shiva Keshavan, in particular, represented India in six consecutive Winter Olympics (1998–2018).

Information Booster:

- **Shiva Keshavan:** Known as the 'Fastest Man on Ice in Asia,' he competed in the Luge event.
- **Beijing 2022:** Arif Khan was the lone Indian representative, competing in Slalom and Giant Slalom.

Additional Knowledge:

- India has not yet won a medal in the Winter Olympics. Most Indian winter athletes train abroad due to the lack of world-class specialized facilities like luge tracks in India.

Q.50 Which Indian startup successfully conducted a suborbital rocket launch from Indian soil as a private entity?

- A. Agnikul Cosmos
- B. Skyroot Aerospace
- C. Bellatrix Aerospace
- D. Dhruva Space

Answer: B

Sol: The correct answer is **(B) Skyroot Aerospace**

Explanation:

- On November 18, 2022, **Skyroot Aerospace** made history by launching India's first privately developed rocket, **Vikram-S**, into space under the mission 'Prarambh.'
- This suborbital flight reached an altitude of approximately 89.5 km and was launched from ISRO's sounding rocket complex at Sriharikota.
- It marked a major milestone in the opening of the Indian space sector to private players.

Information Booster:

- **IN-SPACE:** The Indian National Space Promotion and Authorization Cent gle-window nodal agency that authorizes and promotes private space activities in India.

• **Agnikul Cosmos:** Known for developing *Agnibaan SOrTeD*, which successfully demonstrated a flight using a 3D-printed semi-cryogenic engine in 2024.

Additional Knowledge:

- **Bellatrix Aerospace (Option C):** Focuses on advanced satellite propulsion systems and 'space taxis.'
- **Dhruva Space (Option D):** Specializes in full-stack satellite platforms and was among the first to launch private satellites on ISRO missions.

Q.51 Simplify $(2\sqrt{27} + 3\sqrt{12}) - (\sqrt{75} + \sqrt{48})$.

- A. $3\sqrt{3}$
- B. $2\sqrt{3}$
- C. $4\sqrt{3}$
- D. $5\sqrt{3}$

Answer: A

Sol: Given:

Expression: $(2\sqrt{27} + 3\sqrt{12}) - (\sqrt{75} + \sqrt{48})$

Solution:

$$(2\sqrt{27} + 3\sqrt{12}) - (\sqrt{75} + \sqrt{48})$$

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

$$= (6\sqrt{3} + 6\sqrt{3}) - (5\sqrt{3} + 4\sqrt{3})$$

$$= 12\sqrt{3} - 9\sqrt{3}$$

$$= 3\sqrt{3}$$

Q.52 What is the sum of all three-digit numbers divisible by 8?

- A. 61376
- B. 62480
- C. 59800
- D. 60500

Answer: A

Sol: Given:

Divisor = 8

Range = Three-digit numbers (100 to 999)

Formula Used:

$$\text{Sum of AP} = \frac{n}{2}(a + l)$$

$$l = a + (n-1)d$$

Solution:

Find the first 3-digit number divisible by 8:

$$100/8 = 12.5 \Rightarrow 13 \times 8 = 104.$$

First term (a) = 104.

Find the last 3-digit number divisible by 8:

$$999/8 = 124.875 \Rightarrow 124 \times 8 = 992.$$

Last term (l) = 992.

Find the number of terms (n):

$$992 = 104 + (n-1)8$$

$$888 = (n-1)8$$

$$111 = n - 1$$

$$n = 112$$

Calculate the sum:

$$\text{Sum} = \frac{112}{2}(104 + 992)$$

$$\text{Sum} = 56 \times 1096$$

$$\text{Sum} = 61376$$

Final Answer

So the correct answer is (a)

-
- Q.53** A mixture contains milk and water in the ratio 4:1. If 15 litres of water are added to this mixture, the ratio of milk to water becomes 4:3. What was the initial quantity of the mixture?
- A. 30 litres
B. 37.5 litres
C. 40 litres
D. 45 litres

Answer: B

Sol: Given:
Initial Ratio M:W = 4:1
Water added = 15 L
Final Ratio M:W = 4:3
Solution:
Let Milk = 4x and Water = x.
After adding 15L water, new Water = x + 15.
According to the new ratio:
$$\frac{4x}{x + 15} = \frac{4}{3}$$

Cross multiply:
12x = 4(x + 15)
12x = 4x + 60
8x = 60
x = 7.5
Initial Mixture Quantity = 4x + x = 5x.
Total = 5 × 7.5 = 37.5 litres
Final Answer
So the correct answer is (b)

-
- Q.54** A shopkeeper finds that the profit from selling a bag for ₹900 is equal to the loss incurred when selling it for ₹700. What will be the percentage loss if the bag is sold for ₹750?
- A. 5.25%
B. 6.25%
C. 7.5%
D. 8%

Answer: B

Sol: Given:
Profit at 900 = Loss at 700
New SP = 750
Formula Used:
$$CP = \frac{SP_1 + SP_2}{2}$$
 (when profit = loss)
$$\text{Loss \%} = \frac{CP - SP}{CP} \times 100$$

Solution:
$$CP = \frac{900 + 700}{2} = \frac{1600}{2} = 800.$$

If sold for 750:
Loss = 800 - 750 = 50.
Loss Percentage:
$$\frac{50}{800} \times 100 = \frac{50}{8} = 6.25\%$$

Final Answer
So the correct answer is (b)

-
- Q.55** A, B, and C invest ₹20,000, ₹30,000, and ₹40,000 respectively. A invests for 12 months, B for 8 months, and C for 6 months. The total profit is ₹36,000. What is A's share?
- A. ₹10,000
B. ₹12,000
C. ₹15,000
D. ₹18,000

Answer: B

Sol: Given:

A: 20,000 for 12 months

B: 30,000 for 8 months

C: 40,000 for 6 months

Total Profit = 36,000

Formula Used:

Ratio of Profit = Ratio of (Investment \times Time)

Solution

Calculate the ratio of weighted investment:

A : B : C

$(20000 \times 12) : (30000 \times 8) : (40000 \times 6)$

240000 : 240000 : 240000

1 : 1 : 1

Since the ratio is equal, the profit is divided equally among the three.

Total Profit = 36000

A's Share = $\frac{1}{3} \times 36000 = 12000$

Final Answer

So the correct answer is (b)

Q.56 A can complete a task in 10 days, and B in 15 days. They take a contract for ₹4,500. With the help of C, they complete the task in 4 days. What amount should be given to C?

A. ₹1,200

B. ₹1,500

C. ₹1,800

D. ₹900

Answer: B

Sol: Given:

A's days = 10, B's days = 15

Total time with C = 4 days

Total Wages = 4500

Formula Used:

Wages $\propto$ Work Done

Solution:

Work done by A in 4 days = $\frac{4}{\frac{10}{4}} = \frac{2}{5}$

Work done by B in 4 days = $\frac{4}{15}$

Total work by A and B:

$\frac{2}{5} + \frac{4}{15} = \frac{6 + 4}{15} = \frac{10}{15} = \frac{2}{3}$

Work done by C = $1 - \frac{2}{3} = \frac{1}{3}$

C's Share = $\frac{1}{3} \times 4500 = 1500$

Final Answer

So the correct answer is (b)

Q.57 From the top of a tower, the angle of depression of a car changes from 30° to 45° in 10 minutes. If the car is moving towards the tower at a constant speed, how much more time will it take to reach the base?

A. $10(\sqrt{3} + 1)$ min

B. $5(\sqrt{3} + 1)$ min

C. $10\sqrt{3}$ min

D. 15 min

Answer: B

Sol: Given:

Angles: $30^\circ, 45^\circ$

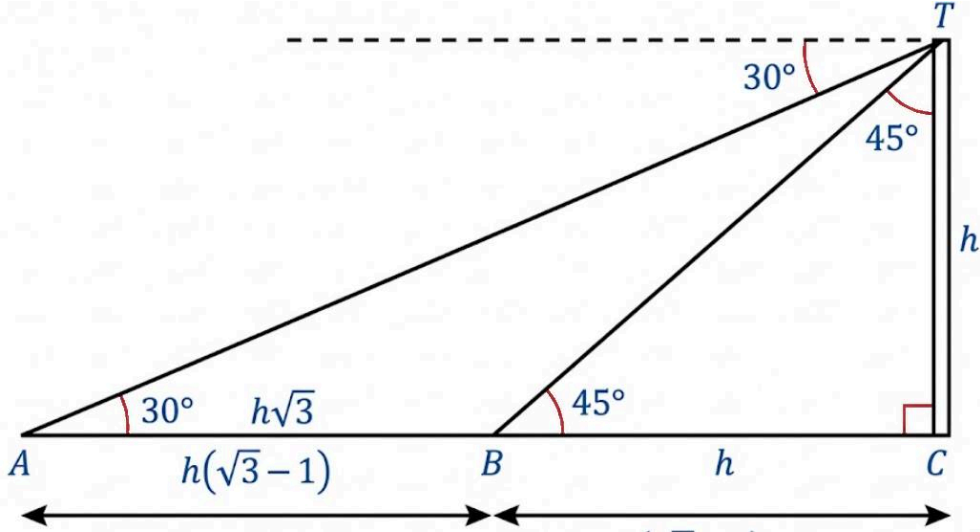
Time taken to travel between points = 10 min

Formula Used:

Distance = Speed $\times$ Time

Trigonometry: $\tan \theta = \frac{h}{d}$

Solution:



Let height = h.

Distance at 30° : $d_1 = h\sqrt{3}$

Distance at 45° : $d_2 = h$

Distance travelled in 10 mins = $h(\sqrt{3} - 1)$

Speed = $\frac{h(\sqrt{3} - 1)}{10}$

Time to cover remaining distance ($d_2 = h$):

Time = $\frac{h}{\text{Speed}} = \frac{h}{\frac{h(\sqrt{3}-1)}{10}}$

Time = $\frac{10}{\sqrt{3} - 1}$

Rationalize:

$\frac{10(\sqrt{3} + 1)}{3 - 1} = \frac{10(\sqrt{3} + 1)}{2} = 5(\sqrt{3} + 1)$ min

Final Answer

So the correct answer is (b)

Q.58 A quadrilateral ABCD is inscribed around a circle (circumscribes a circle). If AB = 8 cm, BC = 11 cm, and CD = 12 cm, what is the length of side AD?

- A. 7 cm
- B. 8 cm
- C. 9 cm
- D. 10 cm

Answer: C

Sol: Given:

AB = 8, BC = 11, CD = 12

Quadrilateral circumscribes a circle.

Formula Used:

AB + CD = BC + AD

Solution:

8 + 12 = 11 + AD

20 = 11 + AD

AD = 20 - 11

AD = 9 cm

Final Answer

So the correct answer is (c)

Q.59 A solid cylinder has a hemisphere mounted on one of its circular bases. The radius of the cylinder is R and the total height of the solid is 5R. Find the total surface area.

- A. $10\pi R^2$

- B. $11\pi R^2$
- C. $12\pi R^2$
- D. $13\pi R^2$

Answer: B

Sol: Given:

Radius = R
Total Height = 5R
Solid = Cylinder + Hemisphere

Formula Used:

TSA = Area of Base + CSA of Cylinder + CSA of Hemisphere

Solution:

Height of Hemisphere part = R.
Height of Cylinder part (h) = Total Height - R = 5R - R = 4R.
Base Area (Circle) = πR^2
CSA of Cylinder = $2\pi Rh = 2\pi R(4R) = 8\pi R^2$
CSA of Hemisphere = $2\pi R^2$
Total Surface Area = $\pi R^2 + 8\pi R^2 + 2\pi R^2$
TSA = $11\pi R^2$

Final Answer

So the correct answer is (b)

Q.60 A student scored 80% marks in an exam. If the theory marks were 480 and the remaining 20% of the total marks were for the project, what were the total marks for the exam?

- A. 500
- B. 600
- C. 700
- D. 800

Answer: B

Sol: Given:

Student score = 80%
Theory marks (corresponding to the scored %) = 480
Project = 20% (Remaining part)

Formula Used:

$$\text{Total Marks} = \frac{\text{Obtained Marks}}{\text{Percentage}} \times 100$$

Solution:

The student scored 80% marks which are given as 480.
 $80\% \text{ of Total} = 480$
 $\text{Total} = \frac{480}{80} \times 100$
 $\text{Total} = 6 \times 100 = 600$

Final Answer

So the correct answer is (b)

Q.61 The average of 12 numbers is 50. The average of the first 5 numbers is 45, and the average of the last 4 numbers is 55. What is the average of the remaining 3 numbers?

- A. 51.66
- B. 52.33
- C. 53.00
- D. 50.66

Answer: A

Sol: Given:

Total numbers = 12, Mean = 50
First 5 Mean = 45
Last 4 Mean = 55

Formula Used:

Sum = Average× Count

Solution:

Total Sum = 12 × 50 = 600

Sum of first 5 = $5 \times 45 = 225$
Sum of last 4 = $4 \times 55 = 220$
Sum of remaining 3 numbers = Total Sum - (Sum of first 5 + Sum of last 4)
Sum = $600 - (225 + 220) = 600 - 445 = 155$
Average of remaining 3 = $\frac{155}{3} = 51.66...$
Final Answer
So the correct answer is (a)

Q.62 The difference between the compound interest and simple interest on a sum of ₹15,000 for 2 years is ₹96. Find the rate of interest per annum.

A. 6%
B. 7%
C. 8%
D. 9%

Answer: C

Sol: Given:
Principal (P) = ₹15,000
Time (T) = 2 years
Diff (CI - SI) = ₹96
Formula Used:
Difference for 2 years = $P(\frac{R}{100})^2$
Solution:
 $96 = 15000 \times (\frac{R}{100})^2$
 $\frac{96}{15000} = (\frac{R}{100})^2$
 $\frac{32}{5000} = (\frac{R}{100})^2$
 $\frac{16}{2500} = (\frac{R}{100})^2$

Take square root:
 $\frac{4}{50} = \frac{R}{100}$
 $R = \frac{4 \times 100}{50}$

 $R = 8\%$
Final Answer
So the correct answer is (c)

Q.63 A circular pizza of radius 14 cm is divided into 8 equal slices. What is the angle of each slice?

A. 30°
B. 45°
C. 60°
D. 90°

Answer: B

Sol: Given
Total angle = 360°
Number of slices = 8
Formula Used:
Angle = $\frac{360^\circ}{N}$
Solution
Angle = $\frac{360}{8}$

Angle = 45°

Final Answer

So the correct answer is (b)

Q.64 A fair die is rolled. What is the probability of getting a number greater than 4?

- A. 1/2
- B. 1/3
- C. 1/6
- D. 2/3

Answer: B

Sol: Given:

Total outcomes (die) = {1, 2, 3, 4, 5, 6} (n=6)

Event E: Number > 4

Formula Used:

$$P(E) = \frac{\text{Favorable Outcomes}}{\text{Total Outcomes}}$$

Solution:

Favorable outcomes are {5, 6} (n=2).

$$\text{Probability} = \frac{2}{6} = \frac{1}{3}$$

Final Answer

So the correct answer is (b)

Q.65 If $\sqrt{(1 - p^2)(1 - q^2)} = \frac{4}{5}$ and $q = \frac{3}{5}$, find the value of p^2 .

- A. 0
- B. 1
- C. 1/2
- D. 1/4

Answer: A

Sol: Given:

$$\sqrt{(1 - p^2)(1 - q^2)} = \frac{4}{5}$$

$$q = \frac{3}{5}$$

Solution:

Calculate $1 - q^2$:

$$1 - \left(\frac{3}{5}\right)^2 = 1 - \frac{9}{25} = \frac{16}{25}$$

Substitute into the equation:

$$\sqrt{(1 - p^2)\left(\frac{16}{25}\right)} = \frac{4}{5}$$

$$\sqrt{1 - p^2} \times \frac{4}{5} = \frac{4}{5}$$

Divide both sides by 4/5:

$$\sqrt{1 - p^2} = 1$$

$$1 - p^2 = 1$$

$$p^2 = 0$$

Final Answer

So the correct answer is (a)

Q.66 40% of a number exceeds 25% of the same number by 45. What is the number?

- A. 250
- B. 300
- C. 350
- D. 200

Answer: B

Sol: Given:

Difference between 40% and 25% of a number is 45.

Solution:

Let the number be x.

$$40\%x - 25\%x = 45$$

$$15\%x = 45$$

$$\frac{15}{100}x = 45$$

$$x = \frac{45 \times 100}{15}$$

$$x = 3 \times 100 = 300$$

Final Answer

So the correct answer is (b)

Q.67 A line passes through the point (3, 2) and is parallel to the line $y = 2x + 5$. What is its equation?

- A. $y = 2x - 4$
- B. $y = 2x + 4$
- C. $y = 2x - 1$
- D. $y = 2x + 1$

Answer: A

Sol: Given:

Point (3, 2)

Parallel to $y = 2x + 5$ (Slope $m = 2$)

Formula Used:

$$y - y_1 = m(x - x_1)$$

Solution:

Using $m=2$ and point (3,2):

$$y - 2 = 2(x - 3)$$

$$y - 2 = 2x - 6$$

$$y = 2x - 4$$

Final Answer

So the correct answer is (a)

Q.68 The base of a right prism is a right-angled triangle with legs 5 cm and 12 cm. The height of the prism is 10 cm. Find the lateral surface area.

- A. $250cm^2$
- B. $300cm^2$
- C. $360cm^2$
- D. $400cm^2$

Answer: B

Sol: Given:

Base legs: 5, 12
Prism Height = 10

Formula Used:

LSA = Perimeter of Base ×Height

Solution:

Hypotenuse of base triangle = $\sqrt{5^2 + 12^2}$
= $\sqrt{25 + 144}$

= $\sqrt{169}$

= 13

Perimeter = 5 + 12 + 13 = 30 cm.

LSA = $30 \times 10 = 300\text{ cm}^2$

Final Answer

So the correct answer is (b)

Q.69 A train leaves Station A for Station B at 8:00 AM at 50 km/h. Another train leaves Station B for Station A at 10:00 AM at 70 km/h. The distance between the stations is 580 km. At what time will they cross each other?

- A. 1:00 PM
- B. 1:30 PM
- C. 2:00 PM
- D. 2:30 PM

Answer: C

Sol: Given:

Total Distance = 580 km
Train A: 8am, 50 km/h
Train B: 10am, 70 km/h

Formula Used:

Relative Speed = $S_1 + S_2$

Time = Distance / Speed

Solution:

Distance covered by A from 8am to 10am (2 hours):

$50 \times 2 = 100\text{ km}$

Remaining Distance at 10am:

$580 - 100 = 480\text{ km}$

Relative Speed (opposite directions):

$50 + 70 = 120\text{ km/h}$

Time taken to meet:

$\frac{480}{120} = 4\text{ hours}$

Meeting time = 10:00 AM + 4 hours = 2:00 PM

Final Answer

So the correct answer is (c)

Q.70 Calculate the coefficient of mean deviation from the median for the data: 5, 10, 15, 20, 25.

- A. 0.2
- B. 0.3
- C. 0.4
- D. 0.5

Answer: C

Sol: Given:

Data: 5, 10, 15, 20, 25
Median = 15

Formula Used:

Answer: A

Sol: The correct option is (a).
Step-by-step explanation:

- The given sentence is in **indirect speech**: “The captain informed the crew that...” This indicates a reporting verb (informed) and a reported clause.
- To convert to **direct speech**, we must remove “that,” put the reported statement in quotation marks, and keep the speaker tag appropriately.
- The reported clause contains the idea of a rule: shore leave is granted only to those who have completed duties. In direct speech, such official statements are commonly expressed in the **simple present** to indicate a general policy (“is granted”).
- Option (A) correctly uses quotation marks, keeps the meaning intact, and uses present perfect “have completed” to show completion of duties before eligibility, matching the original sense (“had completed” in indirect speech due to backshift).

Rules of conversion (Indirect to Direct):

- Remove conjunction “that” and use quotation marks for the exact statement.
- Change pronouns as per the speaker and listener (here, no pronoun shift is required in the statement itself).
- Restore tense when appropriate: backshifted “had completed” can return to “have completed” in direct speech to reflect the intended present relevance of eligibility.

Why other options are incorrect:

- **Option (B):** The structure “the captain informed” is awkward in direct speech reporting tag; also it paraphrases more loosely than required.
- **Option (C):** “is being granted” changes the meaning to an ongoing temporary action rather than a policy condition.
- **Option (D):** Mixed tenses (“was granted” with “who complete”) create inconsistency and do not reflect policy style correctly.

So the correct answer is (a)

Q.88 Fill in the blank with the most appropriate option:
She demanded that he __ present at the signing of the agreement.

A. be
B. was
C. would be
D. is

Answer: A

Sol: The correct option is (a) **be**.
Step-by-step explanation:

- The verb “demanded” is followed by a **that-clause** expressing requirement. In such cases, English uses the **mandative subjunctive**.
- In the mandative subjunctive, we use the **base form** of the verb (V1) after “demand/suggest/insist/recommend/require,” irrespective of the subject.
- Therefore, “She demanded that he **be** present...” is grammatically correct. Here “be” is the base form (Hindi meaning: हो / उपस्थित रहे).

Example: The judge insisted that the witness **be** honest in court.

Why other options are incorrect:

- **Option (B) was:** past tense does not follow the mandative subjunctive rule here.
- **Option (C) would be:** adds conditional meaning; not required after “demanded that.”
- **Option (D) is:** present tense is not used in mandative subjunctive structures in formal exam grammar.

Information booster: In British English, “should + V1” may also be used (e.g., “She demanded that he should be present”), but in standard exam answers, the base form “be” is preferred and most accepted.

So the correct answer is (a)

Q.89 Identify the misspelt word:
A. Asceticism

- B. Iconoclast
- C. Antidiluvian
- D. Neoliberalism

Answer: C

Sol: The correct option is (c).

Step-by-step explanation:

- The task is to identify the **misspelt** word. Option (C) “Antidiluvian” is incorrect.
- The correct spelling is **Antediluvian**, meaning “belonging to the time before the Biblical flood; extremely old-fashioned” (Hindi meaning: महाप्रलय-पूर्व/अत्यंत प्राचीन).
- “Ante-” means “before,” which fits the meaning “before the flood.” “Anti-” means “against,” so “Antidiluvian” is a wrong formation and hence misspelt in this context.

Example: The building had an **antediluvian** design that looked centuries old.

Parts of speech: **Antediluvian** is generally used as an adjective (and sometimes as a noun) in formal English.

Meanings of all the given options:

- **Option (A) Asceticism:** practice of severe self-discipline and avoiding pleasure (Hindi meaning: तपस्या/संयम).
- **Option (B) Iconoclast:** a person who attacks or rejects cherished beliefs or institutions (Hindi meaning: परंपरा-विरोधी).
- **Option (C) Antidiluvian:** incorrect spelling; intended word is “antediluvian” (Hindi meaning: गलत वर्तनी).
- **Option (D) Neoliberalism:** modern form of liberalism emphasizing free-market policies (Hindi meaning: नव-उदारवाद).

So the correct answer is (c)

Q.90 Convert the sentence provided below from its passive voice structure to an active voice structure:

The outcomes have been being assessed by the committee.

- A. The committee is assessing the outcomes.
- B. The committee had assessed the outcomes.
- C. The committee has been assessing the outcomes.
- D. The committee assesses the outcomes.

Answer: C

Sol: The correct option is (c).

Step-by-step explanation:

- The given passive sentence is: “The outcomes **have been being assessed** by the committee.” This is a passive form indicating an action in progress up to the present: **present perfect continuous passive** (though it is rare and heavy, it is grammatically possible).
- To convert passive to active, we make the doer “the committee” the subject and convert the verb to the equivalent active tense.
- **Structure:**

Passive Voice: Subject (receiver) + have/has been being + V3 + by + Agent

Active Voice: Agent + have/has been + V1-ing + Object

- Hence, “The committee **has been assessing** the outcomes.” is the correct active form.

Why other options are incorrect:

- **Option (A)** uses present continuous (“is assessing”), which does not match the “have been...” duration/continuity implied in the given sentence.
- **Option (B)** is past perfect (“had assessed”), changing time completely.
- **Option (D)** is simple present (“assesses”), which removes the ongoing nature and present-perfect continuity.

Information booster: Present perfect continuous passive (“have been being + V3”) is uncommon in daily usage, so exams often test recognition of the equivalent active: “has/have been + V-ing.”

So the correct answer is (c)

Q.91 Choose the most suitable option to replace the highlighted part of the sentence:
"Among all the architectural marvels in the city, the old cathedral is the most grandest."

- A. more grander
- B. grandest
- C. most grand
- D. more grand

Answer: B

Sol: The correct option is (b) **grandest**.
Step-by-step explanation:

- The phrase "**most grandest**" is incorrect due to **double comparison**. We must not use "most" with the "-est" form together.
- For superlatives, we use either:

Rule: (1) **most** + **adjective** (for many long adjectives) OR (2) **adjective** + **-est** (for many short adjectives).

- "Grand" can form the superlative as **grandest** in standard exam usage. Therefore, "the old cathedral is the **grandest**" is correct.

Example (rule): She is the **smartest** student in the class. (Not "most smartest.")

Why other options are incorrect:

- **Option (A) more grander:** double comparison again ("more" + "-er").
- **Option (C) most grand:** grammatically acceptable in some contexts, but when replacing "most grandest," the precise correction to remove double superlative and keep superlative meaning is "grandest," which is the expected exam answer.
- **Option (D) more grand:** comparative degree, not superlative; "Among all" requires superlative.

Information booster: Words like "unique," "perfect," and "complete" generally do not take comparative/superlative forms in strict grammar, but "grand" commonly does in exams.

So the correct answer is (b)

Q.92 Convert the sentence provided below from its passive voice structure to an active voice structure:
The confidential documents had been smuggled out by an undercover agent before officials could respond.

- A. An undercover agent has smuggled out the confidential documents before officials could respond.
- B. An undercover agent smuggled out the confidential documents before officials could respond.
- C. An undercover agent was smuggling out the confidential documents before officials could respond.
- D. An undercover agent had smuggled out the confidential documents before officials could respond.

Answer: D

Sol: The correct option is (d).
Step-by-step explanation:

- The passive sentence uses **past perfect passive**: "had been smuggled out."
- **Structure (Passive):** Object + had been + V3 + by + Agent
- To convert to active voice, we make the agent the subject and use **past perfect active** ("had + V3").
- **Active structure:** Agent + had + V3 + Object
- Hence: "An undercover agent **had smuggled out** the confidential documents before officials could respond."

Why other options are incorrect:

- **Option (A):** present perfect ("has smuggled") changes the time frame.
- **Option (B):** simple past ("smuggled") does not retain the earlier-past relationship implied by past perfect.
- **Option (C):** past continuous changes meaning to an ongoing action rather than a completed action before another past action.

So the correct answer is (d)

Q.93 A sentence is provided in direct speech. From the four given options, choose the one that most accurately conveys the sentence in its corresponding indirect speech.

“If you had taken my advice, you would not be in this trouble now,” she said angrily.

- A. She said angrily that if I had taken her advice, I wouldn't be in this trouble now.
- B. She angrily said if I took her advice, I would not be in this trouble.
- C. She angrily said that if I had taken her advice, I would not be in that trouble then.
- D. She angrily said that if I had taken her advice, I would not have been in this trouble.

Answer: C

Sol: The correct option is (c).

Step-by-step explanation:

- The given direct speech is a **mixed conditional**: “If you had taken my advice (past unreal), you would not be in this trouble now (present result).”
- In indirect speech, we must follow reporting rules:

Rules of conversion (Direct to Indirect):

- Reporting verb “said” remains, and the conjunction “that” is commonly used.
- Pronoun change: “my” (speaker’s) becomes “her” because “she” is the speaker.
- Time/place word change: “this” becomes “that” and “now” becomes “then” in reported speech (standard backshift reporting).
- Tense in conditional: “had taken” remains “had taken” because it is already past perfect (unreal past). “would not be” remains “would not be” to preserve the present-result meaning in mixed conditional reporting.

Option (C) correctly applies pronoun shift and demonstrative/time changes: “that trouble then.”

Why other options are incorrect:

- **Option (A):** keeps “this trouble now,” which usually changes to “that trouble then” in indirect speech.
- **Option (B):** changes “had taken” to “took,” which alters the meaning and breaks the unreal past condition.
- **Option (D):** changes the result clause to “would not have been,” which makes it a past result, not a present result (“now”).

So the correct answer is (c)

Q.94 Rearrange the following sentences in correct order to make a meaningful passage.

1. The raw clips were imported into the editing application.
2. Audio tracks and narration were aligned with the visuals.
3. Transition effects were inserted between scenes.
4. The finished video was exported in high resolution.

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

Answer: B

Sol: The correct option is (b).

Step-by-step explanation (logical sequence):

- **Sentence 1** must come first because importing raw clips is the initial step before any editing can be done.
- After importing, editors usually apply visual edits such as adding transitions between scenes; hence **Sentence 3** logically follows the import stage.
- Once the visual flow is prepared, **Sentence 2** fits next because aligning audio and narration is commonly done after arranging visuals and transitions so that sound matches the final cut.
- Finally, after all editing is complete, **Sentence 4** must come last because exporting is the concluding step that produces the finished video.

Therefore, the correct order is: 1-3-2-4.

So the correct answer is (b)

Q.95 What is the one-word substitute for: “A person with an intense urge to travel and wander.”

- A. Chrematistic
- B. Philoprogenitive
- C. Dromomaniac
- D. Philopraxic

Answer: C

Sol: The correct option is (c) **Dromomaniac**.

Step-by-step explanation:

- **Dromomania** refers to an abnormal or intense impulse to roam or travel. A person who suffers from such an uncontrollable urge is called a **dromomaniac** (Hindi meaning: भटकने/यात्रा करने की तीव्र इच्छा वाला व्यक्ति).
- The definition given—“a person with an intense urge to travel and wander”—exactly matches **dromomaniac**.
- Hence, option (C) is the correct one-word substitute.

Example: He behaved like a **dromomaniac**, leaving jobs repeatedly just to travel to new places.

Meanings of the given other options:

- **Option (A) Chrematistic:** related to the pursuit of money or wealth (Hindi meaning: धन-लोलुप/धन-संबंधी).
- **Option (B) Philoprogenitive:** having a strong love for one’s children (Hindi meaning: संतान-प्रेमी).
- **Option (D) Philopraxic:** fond of doing or taking action; eager to practice (Hindi meaning: कार्य-प्रिय).

So the correct answer is (c)

Q.96 Rearrange the following sentences in correct order to make a meaningful passage.

1. This results in underuse of sanctioned allocations in centrally funded schemes.
2. Ministries forward requisitions which then await clearance from finance and expenditure wings.
3. Even after approval, inter-departmental file movement consumes considerable time.
4. Yearly releases are governed by layered financial control procedures.

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

Answer: C

Sol: The correct option is (c).

Step-by-step explanation (coherence and cause-effect):

- **Sentence 4** sets the overall context by stating the general system: yearly releases follow layered financial control procedures. This is the main framework, so it should begin the passage.
- **Sentence 2** logically follows by explaining a specific step within those procedures: ministries send requisitions and wait for clearances from finance and expenditure wings.
- **Sentence 3** continues the timeline and strengthens the delay idea: even after approval, file movement between departments takes a lot of time. This clearly follows “after approval.”
- **Sentence 1** must come last because it begins with “This results in...,” which refers to the delays and layered procedures described in the earlier sentences, and concludes with the consequence (underuse of allocations).

Therefore, the correct order is: 4-2-3-1.

So the correct answer is (c)

Q.97 Rearrange the following sentences in correct order to make a meaningful sentence:

- P. after verification of biometric authentication
- Q. the disbursement of welfare entitlements
- R. was commenced through direct bank transfer
- S. across all rural and semi-urban clusters

A. QSRP

- B. QRPS
- C. QRSP
- D. QPRS

Answer: C

Sol: The correct option is (c).
Step-by-step explanation (sentence structure):

- The sentence must begin with the subject phrase. **Q** “the disbursement of welfare entitlements” is clearly the subject, so it should start the sentence.
- Next, we need the verb phrase. **R** “was commenced through direct bank transfer” provides the main verb and method, so it should follow the subject.
- Then, we add the location/scope phrase. **S** “across all rural and semi-urban clusters” logically expands where the disbursement took place.
- Finally, **P** “after verification of biometric authentication” is a condition/time phrase, and it best fits at the end to indicate the prerequisite before disbursement.

Correct sequence: Q-R-S-P.

So the correct answer is (c)

Q.98 Find the part of the sentence that contains an error:
Had he been knowing (1)/ about the policy revisions, (2)/ he would not have proceeded (3)/ with the acquisition. (4)/

A. (1)
B. (2)
C. (3)
D. (4)

Answer: A

Sol: The correct option is (a).
Step-by-step explanation:

- Part (1) “Had he been knowing” is incorrect because **know** is a **stative verb**. Stative verbs generally do not take continuous forms (knowing) in standard grammar, especially in such conditional structures.
- The correct form in a third conditional (inversion) should be: “Had he **known** about the policy revisions, he would not have proceeded with the acquisition.”
- Thus, the error lies in (1), and “been knowing” must be replaced with “known.”

Correct sentence: Had he **known** about the policy revisions, he would not have proceeded with the acquisition.

Grammatical rule used:

- **Third conditional (unreal past):** If + past perfect, would have + V3.
- **Inversion:** “If he had known” can become “Had he known.”
- **Stative verbs** (know, believe, understand, own, like, etc.) usually do not take progressive aspect in formal exam grammar.

Example (rule): Had she **understood** the rule, she would have avoided the mistake.

Information booster: Some verbs can be both stative and dynamic depending on meaning, but “know” in the sense of awareness is typically stative, so “been knowing” is unacceptable here.

So the correct answer is (a)

Q.99 Select the correctly spelled word meaning ‘showing great care and attention to detail’.

A. Meticulus
B. Meticulous
C. Meticulious
D. Metticolous

Answer: B

Sol: The correct option is (b) **Meticulous**.
Step-by-step explanation:

- The word meaning “showing great care and attention to detail” is **meticulous** (Hindi meaning: सूक्ष्मदर्शी/बहुत सावधान).
- The correct spelling is **M-e-t-i-c-u-l-o-u-s**. Option (B) matches this exact spelling.
- Other options include missing letters, extra letters, or incorrect vowel placement, so they are incorrect spellings.

Example: She kept **meticulous** records of every transaction.

Meanings of all the given options:

- **Option (A) Meticulus:** incorrect spelling; intended “meticulous” (Hindi meaning: गलत वर्तनी).
- **Option (B) Meticulous:** very careful and precise (Hindi meaning: बारीकी से ध्यान देने वाला).
- **Option (C) Meticulious:** incorrect spelling due to extra “i” (Hindi meaning: गलत वर्तनी).
- **Option (D) Metticolous:** incorrect spelling due to double “t” (Hindi meaning: गलत वर्तनी).

So the correct answer is (b)

Q.100 Change the following from active to passive:
The policy institute will have been evaluating sector-wise outcomes by the end of the financial year.

A. Sector-wise outcomes will have been being evaluated by the policy institute by the end of the financial year.
B. Sector-wise outcomes were evaluated by the institute by the end of the financial year.
C. Sector-wise outcomes will have been evaluated by the policy institute by the end of the financial year.
D. Sector-wise outcomes will be evaluated by the institute by the end of the financial year.

Answer: A

Sol: The correct option is (a).
Step-by-step explanation:

- The active sentence is in **future perfect continuous**: “will have been evaluating.” It indicates an action continuing up to a point in the future (“by the end of the financial year”).
- To convert active to passive, we make the object “sector-wise outcomes” the subject and change the verb according to the passive structure for this tense.

Structure:

Active voice: Subject + will have been + V1-ing + Object

Passive voice: Object + will have been being + V3 + by + Subject

- Therefore: “Sector-wise outcomes **will have been being evaluated** by the policy institute by the end of the financial year.”

Why other options are incorrect:

- **Option (B):** simple past passive; changes the time frame completely.
- **Option (C):** future perfect passive (“will have been evaluated”) removes the continuous/progressive sense present in the original.
- **Option (D):** simple future passive (“will be evaluated”) does not match the future perfect continuous meaning.

Information booster: Though “will have been being + V3” is rare in everyday English, it is the direct passive equivalent of future perfect continuous and is sometimes used in grammar-based exam conversions.

So the correct answer is (a)
