



Phase 1 Paper 1 Solutions - 2024

General Awareness

Q.1) (c)

Explanation:

- According to Kroll's 2023 Celebrity Brand Valuation Report, Indian cricketer Virat Kohli is India's most valued celebrity with a brand value of \$227.9 million, up 29% from 2022.
- This puts him ahead of Bollywood stars like Ranveer Singh and Shah Rukh Khan. Kohli endorses more than 40 brands.

Q.2) (b)

Explanation:

- Atal Innovation Mission (AIM) guidelines for Established Incubation Centres (EICs) state that the applicant institution must have been in operation for a minimum of five years.
- Additionally, the institution must be registered in India as a public, private, or public-private partnership enterprise.
- The AIM is a flagship initiative of the Government of India that aims to promote a culture of innovation and entrepreneurship across the country.
- It provides financial scale-up support to distinguished incubation centers in the country to revolutionize the entrepreneurial ecosystem.

Q.3) (c)

Explanation:

Special category & Focused states:

- Special category States are North-east States (Assam, Meghalaya, Mizoram, Tripura, Arunachal Pradesh, Manipur and Nagaland), Sikkim, Uttarakhand, Himachal Pradesh and Jammu & Kashmir.
- Focused States are Bihar & Jharkhand.

Q.4) (d)

Explanation:

In June 2024, Wärtsilä, a technology company that specializes in marine and technology solutions, announced the launch of the world's first large-scale engine power plant that can run on 100% hydrogen.

Q.5) (e)

Explanation:

- In June 2024, Kozhikode in Kerala was named India's first UNESCO City of Literature:
- The recognition highlights the city's rich literary heritage and contributions to Malayalam literature. In October 2023, Kozhikode was also included in the UNESCO Creative Cities Network's (UCCN) "Literature" category.

Q.6) (b)

Explanation:

FIFA announced that Brazil would become the 2027 Women's World Cup host, making this the first FIFA Women's World Cup in both South America and Latin America.

Q.7) (b)

Explanation:

- Bank for International Settlements (BIS) is an international financial institution which is owned by member central banks.
- Its primary goal is to foster international monetary and financial cooperation while serving as a bank for central banks.

- With its establishment in 1930 it is the oldest international financial institution
- Sixty-three central banks and monetary authorities are currently members of the BIS and have rights of voting and representation at General Meetings.

Q.8) (c)

Explanation:

- Bombay Stock Exchange (BSE) and a group of banks, including the Bank of India, State Bank of India, HDFC Bank, Bank of Baroda, Union Bank of India, and Standard Chartered Bank, founded Central Depository Services Limited (CDSL) in 1999.
- The BSE was the chief promoter of CDSL, but later sold its stake to leading banks.

Q.9) (a)

Explanation:

Indian arm-wrestling contingent delivered an outstanding performance at the 2024 Asian Championship in Tashkent, Uzbekistan, bringing home a total of seven medals, which included one gold and six bronze.

Q.10) (e)

Explanation:

Indian Railways successfully conducted a trial run of a eight-coach MEMU train on the world's highest railway bridge — Chenab Bridge — in Jammu and Kashmir, paving the way for the start of rail service on the route from Reasi to Baramulla in Kashmir.

Q.11) (d)

Explanation:

- Real Estate Investment Trusts (REITs) in India are registered with the Securities and Exchange Board of India (SEBI).
- The sponsor or investor who creates the trust must file an application for a Registration Certificate (RC) in Form A, Schedule I of the SEBI (Real Estate Investment Trusts) Regulations, 2014.

Q.12) (d)

Explanation:

Srinivasa S.R. Varadhan is the only person of Indian origin to have won the Abel Prize, which is known as the Nobel Prize for mathematics

Q.13) (d)

Explanation:

- National Centre for Financial Education's (NCFE) Financial Education Programme for Adults (FEPA) is intended to spread financial awareness among adults from a variety of backgrounds, including:
- Farmers, Women's groups, Asha workers, Anganwadi workers, Self-help groups, Employees, Skill development trainees, Rural people, Household people, and MGNREGA cardholders.

Q.14) (c)

Explanation:

According to the World Economic Forum's (WEF) 2024 Travel and Tourism Development Index (TTDI), the top five countries for travel and tourism are: United States, Spain, Japan, France and Australia.

Q.15) (b)

Explanation:

The Securities and Exchange Board of India (SEBI) announced a new format for the Scheme Information Document (SID) for mutual funds, which will be implemented on April 1, 2024. The new format aims to:

- Make it easier for mutual funds to prepare the SID
- Improve the SID's readability for investors
- Streamline the distribution of relevant information to investors

- Rationalize the preparation of the SID
- Make it easier for mutual funds to update the SID periodically

Q.16) (a)

Explanation:

- Eminent children's film-maker Vinod Ganatra has been conferred with South Africa's prestigious 'Nelson Mandela Lifetime Achievement Award' for his contribution to films.
- Vinod Ganatra becomes the first Indian to be honoured with the 'Nelson Mandela Lifetime Achievement Award'.

Q.17) (e)

Explanation:

- The scheme "National Savings Certificates (VIII-Issue) Scheme" was launched by the Department of Economic Affairs, Ministry of Finance to promote a culture of long-term savings among individuals.
- Under the scheme, an individual can deposit a minimum of Rs. 1000/- and thereafter in multiple of Rs. 100/- with no maximum deposit limit.

Q.18) (a)

Explanation:

Documents uploaded on it are based on Categories

- Central Government
- State Government
- Transport & Infrastructure
- National Service Scheme
- Identity Docs
- Education & Learning
- Banking, Financial Services and Insurance
- Health & Wellness

- Sports & Culture
- Government & Public Sector
- Industry & Private Sector
- Skill & Vocational
- Most Popular Documents

Q.19) (a)

Explanation:

Who is eligible to file ITR-4 for AY 2024-25?

- ITR-4 can be filed by a Resident Individual / HUF / Firm (other than LLP) who has:
- Income not exceeding Rs. 50 Lakh during the FY

Q.20) (b)

Explanation:

- Minimum Rs. 100/- per month and any amount in the multiples of Rs. 10/-. No Maximum Limit.
- An account can be opened by an adult in his own name or upto three adults jointly.
- Guardian may open an account on behalf of a minor or a person of unsound mind.



Phase 1 Paper 1 Solutions - 2024

English

Q.21) (d)

Explanation:

The correct option is "divided - pertaining." "Divided" is an adjective describing the disagreement among political parties, which fits grammatically after the verb "are." "Pertaining" is a participle that correctly modifies "laws," meaning "related to." The phrase "laws pertaining to cyber security" is grammatically and contextually appropriate, indicating laws that concern cyber security. The other options either misuse parts of speech or don't fit the intended meaning of the sentence. The sentence would read: "Political parties are **divided** over the laws **pertaining** to cyber security."

Q.22) (e)

Explanation:

The correct option is "backfired - bottlenecks." "Backfired" is a verb that indicates the plan had an unintended negative result, fitting the sentence structure. "Bottlenecks" is a noun referring to obstacles or delays, which aligns with the idea of problems encountered during the plan. This combination is grammatically correct and contextually appropriate, whereas the other options either misuse parts of speech or do not convey the intended meaning.

The sentence would read: "The decision to go ahead with the plan **backfired** as there were several **bottlenecks**."

Q.23) (a)

Explanation:

The correct option is "holds - influence." "Holds" is a verb meaning to maintain or believe, fitting the phrase "conventional wisdom holds." "Influence" is a noun that

correctly describes the impact debates have on elections. Together, they form a grammatically and contextually appropriate sentence. Other options either misuse verbs or nouns or fail to convey the intended meaning. The sentence would read: "Conventional wisdom **holds** that presidential debates have minimal **influence** on elections."

Q.24) (a)

Explanation:

The correct pair is B-F

B and F can be combined because they share a common context related to the patients being asked to leave due to the doctor's unavailability.

Combined Sentence:

"The patients were asked to return home as the doctor had informed them that he would not be able to come."

A and E can be combined to create a cause-effect relationship: when verbal communication fails, email is suggested as an alternative.

Combined Sentence:

"Please send an email to the concerned department if your verbal requirements are not being paid attention to."

But there is an error in the sentence. "Requirement" is used instead of "Requirements". Hence, A-E cannot be a pair.

Q.25) (d)

Explanation:

The error in the sentence is the use of "who" instead of "which" or "that."

The corrected sentence should be:

"The manager made a spectacular business presentation **that** was not only well received by the management but also impressed potential clients."

Note: "Who" is used for people, while "that" or "which" should be used for things or concepts, like "a business presentation."

Q.26) (a)

Explanation:

The error in the sentence is the use of "is investing" instead of "has been investing."

The corrected sentence should be:

"Ever since the elections got over, the government **has been investing** heavily in infrastructure to support economic growth in the region."

Note: "Has been investing" is the correct form to use with "ever since" to indicate an ongoing action that started in the past and continues into the present.

Q.27) (d)

Explanation:

The error in the sentence is the phrase "adapt to its harsh environment."

The corrected sentence should be:

"The elusive Snow leopard lives in the rugged mountains of central Asia **and adapts** to its harsh environment."

Note: The sentence requires "and adapts" to properly connect the two clauses. "Adapt" should be in the form "adapts" to agree with the singular subject "Snow leopard" and to complete the sentence correctly.

Q.28) (b)

Explanation:

The error in the sentence is the incorrect use of "including" and "a lions."

The correct sentence should be: "The intricate web of life in the Amazon rainforest includes lions, zebras, giraffes, and other species."

The verb "includes" should be used instead of "including" to properly convey that the web of life encompasses these species. Additionally, "a lions" should be corrected to just "lions" to accurately list the species without the article "a."

Q.29) (b)

Explanation:

According to the passage, analogue astronauts are researchers who live in controlled environments on Earth, such as Biosphere 2, to simulate space habitats and study how

humans might adapt to living in space. This helps in understanding and solving the challenges of future space habitation.

Q.30) (b)

Explanation:

The passage highlights that harsh conditions, such as cosmic rays and microgravity, are significant challenges in establishing a human presence beyond Earth.

Q.31) (c)

Explanation:

The passage describes Biosphere 2 as a facility designed to simulate a space habitat, where researchers study ecological interactions and sustainability.

Q.32) (a)

Explanation:

Statement 1 is correct as the passage mentions that Biosphere 2 was designed to simulate space habitats.

Statement 2 is incorrect because the passage highlights that cosmic rays pose a significant risk, such as increased cancer likelihood.

Statement 3 is incorrect because the passage notes that public support for space exploration is accompanied by thorny ethical issues.

Q.33) (b)

Explanation:

The experiment with eight individuals living inside Biosphere 2 provided valuable insights into how humans might adapt to living in enclosed, self-sustaining environments.

Q.34) (a)

Explanation:

In the passage, "daunting" means something that is intimidating or challenging. Therefore, the synonym "challenging" correctly reflects the meaning of "daunting" in the context of the passage.

Q.35) (c)

Explanation:

The correct answer is "ecosystems" because the passage emphasizes learning from Earth's entire ecological systems to understand how to create self-sustaining environments in space. The other options are incorrect because:

- **Technologies** focus on tools and methods rather than natural systems.
- **Resources** are components within ecosystems but do not encompass the broader ecological study.
- **Climates** are a part of ecosystems but do not fully represent the comprehensive study intended.
- **Species** are individual components of ecosystems but do not capture the whole system's complexity.

Q.36) (a)

Explanation:

Corrected Sentence: If two employees can **maintain** transparency with each other, the level of **trust** between them shall rise **automatically**.

To correct the sentence, the words "trust" and "maintain" should be swapped. The word "maintain" is appropriate for describing the act of keeping or upholding transparency, which is crucial for a good working relationship. On the other hand, "trust" fits better in the context of describing the level of mutual confidence that increases as a result of maintaining transparency.

Q.37) (b)

Explanation:

The revised sentence should be: "While software that **tracks** the activities of an employee can be intrusive, they can **provide** insights into employee behavior as **well**."

The term "tracks" is appropriate because the software monitors or follows employee activities, while "provide" fits better when describing how the software offers insights. Additionally, "well" should be used to complete the phrase "as well," indicating the manner in which insights are given.

Q.38) (e)

Explanation:

Corrected Sentence: The notice read that those who would **arrive** at the venue after the **reporting** time shall not be **allowed** to enter. The word "arrive" should remain as it correctly describes the act of reaching the venue. "Reporting" should be swapped with "allowed" because the context requires specifying that entry is permitted or not, and "allowed" is the appropriate term. Thus, "allowed" should replace "reporting" to properly convey that entry is conditional on arriving before the specified time.

Q.39) (c)

Explanation:

The idiom/phrase "give away" generally means to reveal or disclose something, often unintentionally, or to distribute something for free. Here's an evaluation of each sentence:

I. "Getting no work from manager was a give away to him that he will be getting laid off work."

- **Incorrect:** The phrase "give away" is used incorrectly here. It should be "a giveaway," meaning a sign or indication, but "give away" is not used appropriately in this context.

II. "The party gives away clothes and utensils to people living in rural areas right before the elections."

- **Correct:** Here, "gives away" is used correctly to indicate that the party is distributing clothes and utensils for free.

III. "The new secretary ended up giving away confidential information."

- **Correct:** In this sentence, "giving away" is used correctly to mean that the secretary unintentionally revealed confidential information.

Q.40) (a)

Explanation:

The idiom "bite the dust" means to fail or be defeated, or to die (in a more literal sense). Here's an evaluation of each sentence:

I. "All their efforts bit the dust when the other party did not turn up for the meeting."

- **Correct:** This sentence uses "bit the dust" appropriately to indicate that their efforts failed due to the other party's absence.

II. "He drove the car at a high speed, biting the dust and won the race."

- **Incorrect:** The phrase "biting the dust" does not fit the context of driving fast and winning a race. It should imply failure or defeat, not success.

III. "The slip up by the school principal made everyone want to bust out laughing but they decided to bite the dust instead."

- **Incorrect:** The idiom "bite the dust" is not used correctly here. It doesn't fit the context of deciding to laugh or not. The phrase is about failure or defeat, not controlling laughter.

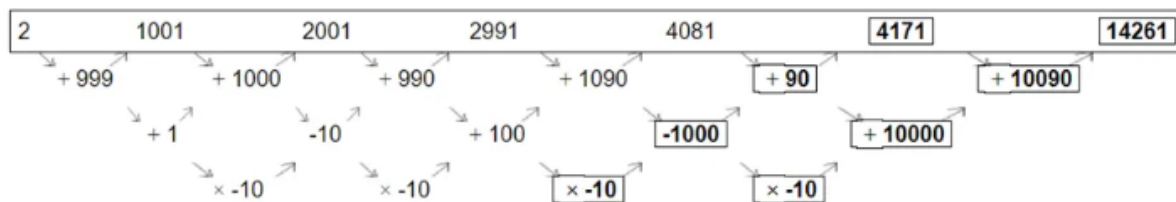
Phase 1 Paper 1 Solutions - 2024

Quantitative Aptitude

Q.41) (c)

Explanation:

The given logic is as follows-



Q.42) (b)

Explanation:

The given logic is as follows-

$$7 \times 2 = 14$$

$$14 \times 3 = 42 \neq 28$$

$$42 \times 4 = 168$$

$$168 \times 5 = 840$$

$$840 \times 6 = 5040$$

$$5040 \times 7 = 35280$$

Q.43) (a)

Explanation:

The given logic is as follows-

$$184 - 1^3 = 183$$

$$183 + 2^2 = 187$$

$$187 - 3^3 = 160$$

$$160 + 4^2 = 176$$

$$176 - 5^3 = 51$$

$$51 + 6^2 = 87$$

Q.44) (d)

Explanation:

$$2x^2 - 13x + 21 = 0$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$2x^2 - 13x + 21 = 0$$

$$x = \frac{(13 \pm \sqrt{1})}{4}$$

$$x = \frac{(13 \pm 1)}{4}$$

$$x = 3.5; 3$$

$$y^2 - 8y + 15 = 0$$

$$y = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$y = \frac{-(-8) \pm \sqrt{4}}{2}$$

$$y = \frac{(8 \pm 2)}{2}$$

$$y = 5; 3$$

Comparing the roots

$$x_1 = 3.5 \text{ and } x_2 = 3$$

$$y_1 = 5 \text{ and } y_2 = 3$$

So, no relation can be established between x and y.

Q.45) (d)

Explanation:

$$x^2 - 5x - 84 = 0$$

$$(x - 12)(x + 7) = 0$$

$$x = 12; -7$$

$$y^2 - 9y - 52 = 0$$

$$(y - 13)(y + 4) = 0$$

$$y = 13; -4$$

Comparing the roots

$$x_1 = 12 \text{ and } x_2 = -7$$

$$y_1 = 13 \text{ and } y_2 = -4$$

So, no relation can be established between x and y.

Q.46) (a)

Explanation:

$$4x^2 + 11x + 6 = 0$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$x = \frac{-11 \pm \sqrt{25}}{8}$$

$$x = \frac{-11 \pm 5}{8}$$

$$x = -0.75; -2$$

$$y^2 + 7y + 12 = 0$$

$$y = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$y = \frac{-7 \pm \sqrt{1}}{2}$$

$$y = \frac{-7 \pm 1}{2}$$

$$y = -3; -4$$

Comparing the roots

$$x_1 = -0.75 \text{ and } x_2 = -2$$

$$y_1 = -3 \text{ and } y_2 = -4$$

The correct answer is [a] $x > y$.

Q.47) (a)

Explanation:

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

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$x = \frac{-(-5) \pm \sqrt{49}}{6}$$

$$x = (5 \pm 7) / 6$$

$$x = 2; -0.33$$

$$2y^2 + 3y + 1 = 0$$

$$y = (-b \pm \sqrt{b^2 - 4ac}) / 2a$$

$$y = (-3 \pm \sqrt{1}) / 4$$

$$y = (-3 \pm 1)/4$$

$$y = -0.5, -1$$

Comparing the roots

$$x_1 = 2 \text{ and } x_2 = -0.33$$

$$y_1 = -0.5 \text{ and } y_2 = -1$$

The correct answer is [a] $x > y$.

Q.48) (c)

Explanation:

Set A consists of four consecutive even numbers. Let the smallest number be x . Then the numbers in Set A are: x (smallest), $x+2$, $x+4$, $x+6$ (largest)

The ratio of the largest number to the smallest number in Set A is given as 13:10.

$$(x + 6)/x = 13/10$$

$$10(x + 6) = 13x$$

$$10x + 60 = 13x$$

$$13x - 10x = 60$$

$$3x = 60$$

$$x = 20$$

So, the numbers in Set A are 20, 22, 24 and 26

Now, define the numbers in Set B: Set B consists of three consecutive odd numbers. Let the smallest number be y .

The problem states that the smallest number of Set B is 12 more than the average of the two smallest numbers of Set A.

The two smallest numbers of Set A are 20 and 22. Their average is $(20+22)/2 = 21$

So, the smallest number of Set B is : $y = 21 + 12 = 33$

The second smallest number is $y + 2 = 33 + 2 = 35$

Q.49) (b)

Explanation:

Initial State:

Let the initial quantity of milk be $5x$ liters and the initial quantity of water be x liters.

The total initial mixture is $6x$ liters.

After 18 liters are taken out:

The remaining milk is $5x - (5/6) * 18 = 5x - 15$ liters.

The remaining water is $x - (1/6) * 18 = x - 3$ liters.

After adding 2 liters of milk and 1 liter of water:

The final quantity of milk is $5x - 15 + 2 = 5x - 13$ liters.

The final quantity of water is $x - 3 + 1 = x - 2$ liters.

According to the problem, the final ratio of milk to water is 4:1:

$$\text{So, } (5x - 13) / (x - 2) = 4/1$$

Cross-multiplying, we get $5x - 13 = 4x - 8$

Simplifying, we find $x = 5$.

Therefore, the initial quantity of milk is $5x = 5 * 5 = 25$ liters.

So, the correct answer is (b).

Q.50) (d)

Explanation:

Let A's present age be A.

Let B's present age be B.

Let C's present age be C.

From the first condition:

$$A + 5 = B - 15$$

Rearranging, we get $A - B = -20$

From the second condition:

$$C = B - 5$$

From the third condition:

$$A/C = 2/3$$

Substituting $C = B - 5$, we get $A/(B - 5) = 2/3$

Cross-multiplying, we get $3A = 2(B - 5)$

Simplifying, we get $3A - 2B = -10$

Now we have a system of two linear equations:

$$A - B = -20$$

$$3A - 2B = -10$$

Solving the system of equations:

Multiplying equation 1 by 2, we get $2A - 2B = -40$

Subtracting equation 2 from the modified equation 1, we get $A = 30$

Substituting $A = 30$ into equation 1:

$$30 - B = -20$$

Solving for B, we get $B = 50$

Therefore, the present age of B is 50.

So, the correct answer is (d).

Q.51) (b)

Explanation:

Let's analyze the problem step by step:

Cost Price (CP) = Rs. 1500

Marked Price (MP) = $CP * (1 + X/100)$

Selling Price (SP) = $MP * (1 - 20/100) = MP * 0.8$

Profit = $SP - CP$

$$660 = MP * 0.8 - 1500$$

Rearranging, we get $MP * 0.8 = 2160$

Solving for MP:

$$MP = 2160 / 0.8 = 2700$$

Now, we can find X:

$$MP = CP * (1 + X/100)$$

$$2700 = 1500 * (1 + X/100)$$

Dividing both sides by 1500, we get $1.8 = 1 + X/100$

Subtracting 1 from both sides, we get $0.8 = X/100$

Multiplying both sides by 100, we get $X = 80$

Therefore, the value of X is 80%.

So, the correct answer is (b).

Q.52) (e)

Explanation:

Let's analyze the problem step by step:

Amount invested in the scheme = Rs. X

Interest rate = 20% per annum

Time period = 2 years

Final amount after 2 years = Rs. 2160

Using the compound interest formula:

Final Amount = Principal * $(1 + \text{Rate}/100)^{\text{Time}}$

$$2160 = X * (1 + 20/100)^2$$

Simplifying, we get $2160 = X * (1.2)^2$

$$2160 = 1.44X$$

Solving for X :

$$X = 2160/1.44 = 1500$$

Therefore, the amount invested in the scheme is Rs. 1500.

Since the total amount is Rs. 2500, the amount of savings is:

Savings = Total amount - Amount invested in the scheme

$$\text{Savings} = 2500 - 1500 = 1000$$

So, the amount of savings is Rs. 1000.

The correct answer is (e).

Solution for Q.53 to Q.57:

Companies	Total Male Employees	Total Female Employees	Total Number of Employees
A	225	125	350
B	120	200	320
C	165	135	300
D	180	160	340

Q.53) (b)

Explanation:

Number of Males in D = 180

Number of Females in B = 200

According to the question,

$$200 = X(Y/Z) \times 180$$

$$X(Y/Z) = (200/180)$$

$$X(Y/Z) = 1(20/180)$$

$$X = 1, Y = 20, Z = 180$$

$$(Y^2 - Z) \times X = (400 - 80) \times 1 = 320$$

Q.54) (b)

Explanation:

Number of Males of A, B and C = 225 + 120 + 165 = 510

Number of Females of A, B and C = 125 + 200 + 135 = 460

Sum = 510 + 460 = 970

Q.55) (c)

Explanation:

Number of Females in A and B = 125 + 200 = 325

Number of Males in D = 180

$$\text{Difference} = 325 - 180 = 145$$

Q.56) (e)

Explanation:

Number of Males in C = 165

Number of Males in A = 225

$$\% \text{ more/less} = [(165 - 225)/225] \times 100 = -26.67\% \text{ (Percent Less)}$$

Q.57) (c)

Explanation:

Number of Males in Company B = 120

Number of Females in Company D = 160

$$\text{Ratio} = 120 : 160 = 3 : 4$$

Solution for Q.58 to Q.60:

	Rose	Lilly	Jasmine	Total
A	x	3x	3x+40	
B	y-70	y	460-3x	610
Total	190		500	

According to Question,

Total number of roses in A and B together is 190

$$x + y - 70 = 190$$

$$x + y = 260 \dots(i)$$

For Nursery B :

$$y - 70 + y + 460 - 3x = 610$$

$$2y - 3x + 390 = 610$$

$$2y - 3x = 220 \dots (ii)$$

From Equation (i) & (ii)

$$2y - 3x = 220 ; 3x + 3y = 780$$

$$y = 200$$

$$x = 60$$

	Rose	Lilly	Jasmine	Total
A	$x = 60$	$3x = 180$	$3x+40 = 220$	460
B	$y-70 = 130$	$y = 200$	$460-3x = 280$	610
Total	190	380	500	1070

	Rose	Lilly	Jasmine	Total
A	60	180	220	460
B	130	200	280	610
Total	190	380	500	1070

Q.58) (b)

Explanation:

The total number of lilies in both nurseries A and B together = 380

Q.59) (c)

Explanation:

The ratio of number of Jasmine flowers in A and B = $220 : 280 = 11 : 14$

Q.60) (a)

Explanation:

The number of rose and jasmine flowers in nursery A = 280

The number of lilies in nursery B = 200

$$\% \text{ more} = [(280-200)/200] \times 100 = 40\%$$



Phase 1 Paper 1 Solutions - 2024

Reasoning

Q.61) (c)

Explanation:

3rd Letter : I

7th Letter : U

10th Letter : T

13th Letter : N

Word : UNIT

2nd Letter of the word from the right :- I

Q.62) (a)

Explanation:

Prime digits are: 2, 3, 5, 7

Non-prime digits are: 0, 1, 4, 6, 8, 9

Number: 59176842

5 (prime) $\rightarrow 5 + 2 = 7$

9 (non-prime) $\rightarrow 9 - 1 = 8$

1 (non-prime) $\rightarrow 1 - 1 = 0$

7 (prime) $\rightarrow 7 + 2 = 9$

6 (non-prime) $\rightarrow 6 - 1 = 5$

8 (non-prime) $\rightarrow 8 - 1 = 7$

4 (non-prime) $\rightarrow 4 - 1 = 3$

2 (prime) $\rightarrow 2 + 2 = 4$

After applying the operations, the transformed number is: **78095734**

Digit 7 appears more than once, so delete them.

The remaining digits are: **0, 9, 8, 5, 3, 4**

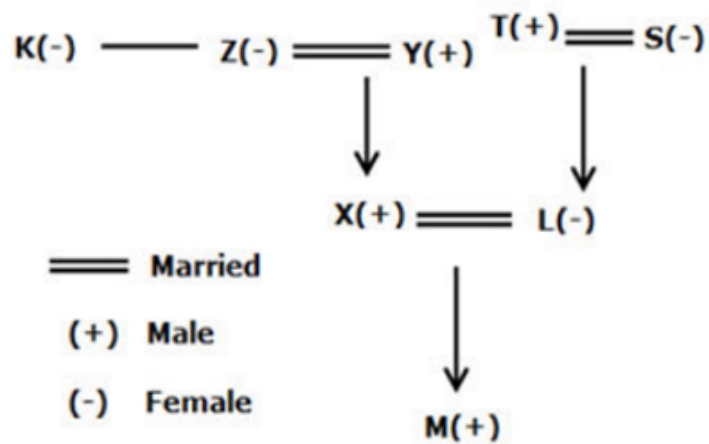
The number is: **985430**

Second digit from the right: **3**

Third digit from the right: **4**

Sum: $3 + 4 = 7$

Solution for Q.63 to Q.65:



Q.63) (c)

Q.64) (d)

Q.65) (d)

Solution for Q.66 to Q.69:

Boy	Building	Kite
A	Top-View	Blue
D	Ridge	Green
Y	Top-View	Black
U	Ridge	Yellow
P	Top-View	Red
Q	Ashiana	Pink
J	Ashiana	White

Q.66) (c)

Explanation:

The given information reveals that P flies the red kite since it is mentioned that P does not fly blue kite.

Q.67) (d)

Explanation:

D and U lives in the Ridge building.

Q.68) (e)

Explanation:

Y lives in the Top-View building, who flies black kite.

Q.69) (a)

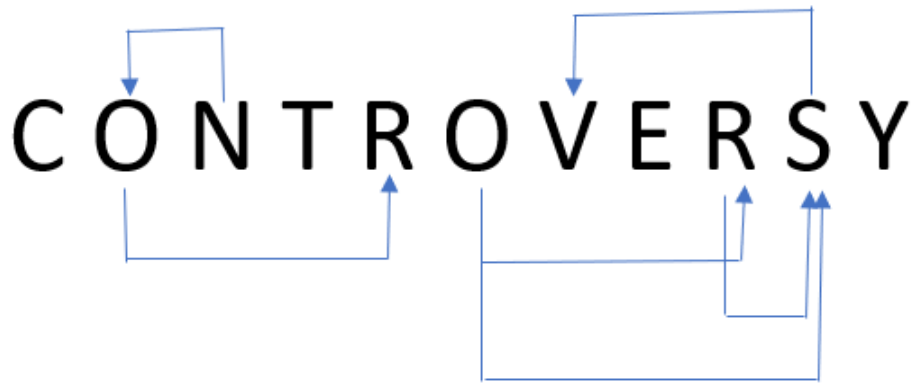
Explanation:

A flies the blue kite.

Q.70) (d)

Explanation:

Therefore,



Forward Direction: There are two letters between O to R in the given word as well as in the alphabet series and there are two such pairs of O and R; There are three letters between O to S in the given word as well as in the alphabet series; There is no letter between R to S in the given word as well as in the alphabet series.

Backward Direction: There is no letter between N to O in the given word as well as in the alphabet series; There are two letters between S to V in the given word as well as in the alphabet series.

Hence, there are six such pairs.

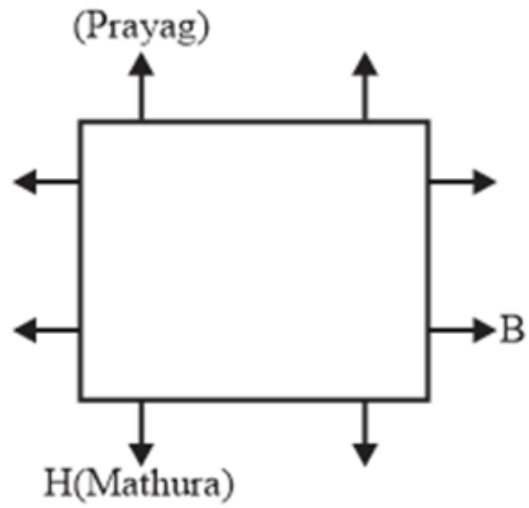
Solution for Q.71 to Q.74:

Total number of friends: Eight

According to the question,

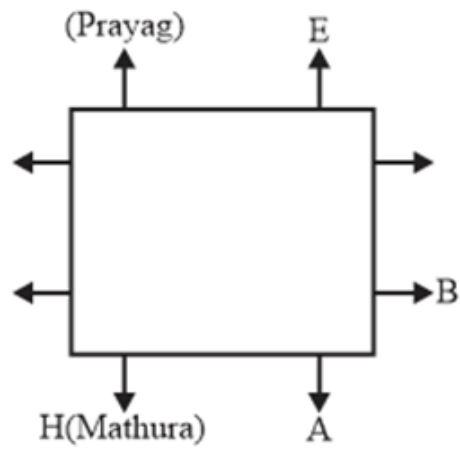
The person who belongs to Prayag sits opposite to H. B sits second to the left of H who belongs to Mathura.

Case 1:

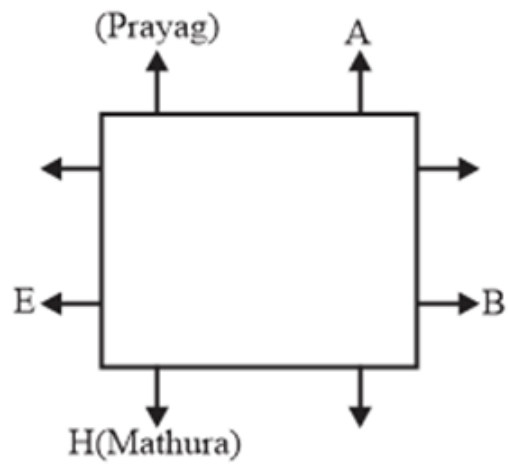


A sits third to the right of E, who is not an immediate neighbour of D.

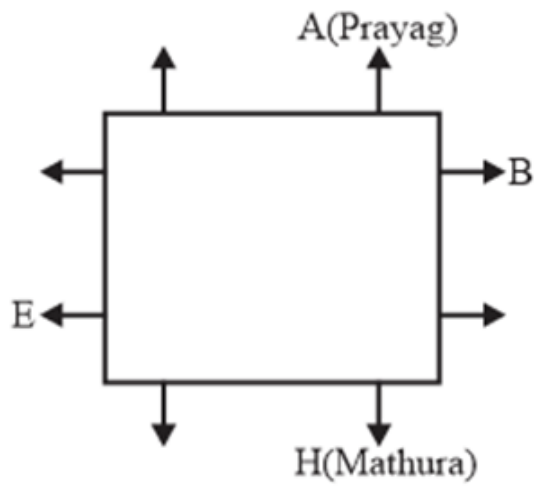
Case 1a:



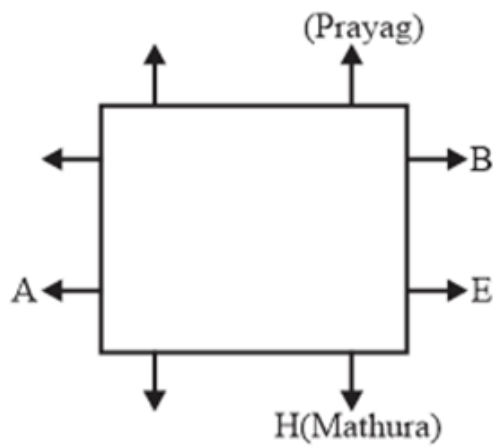
Case 1b:



Case 2a:

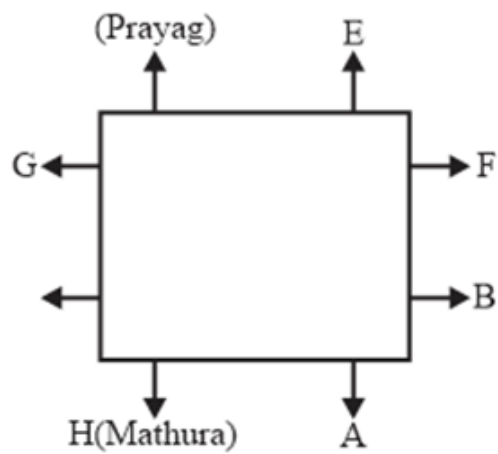


Case 2b:

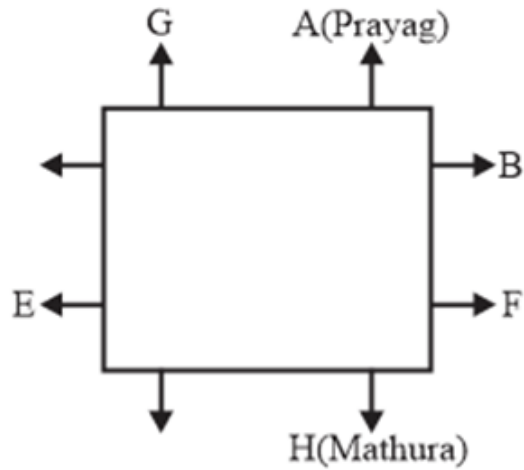


G sits third to the left of F. Here, case 1(b) and 2(b), is eliminated.

Case 1a:



Case 2a:

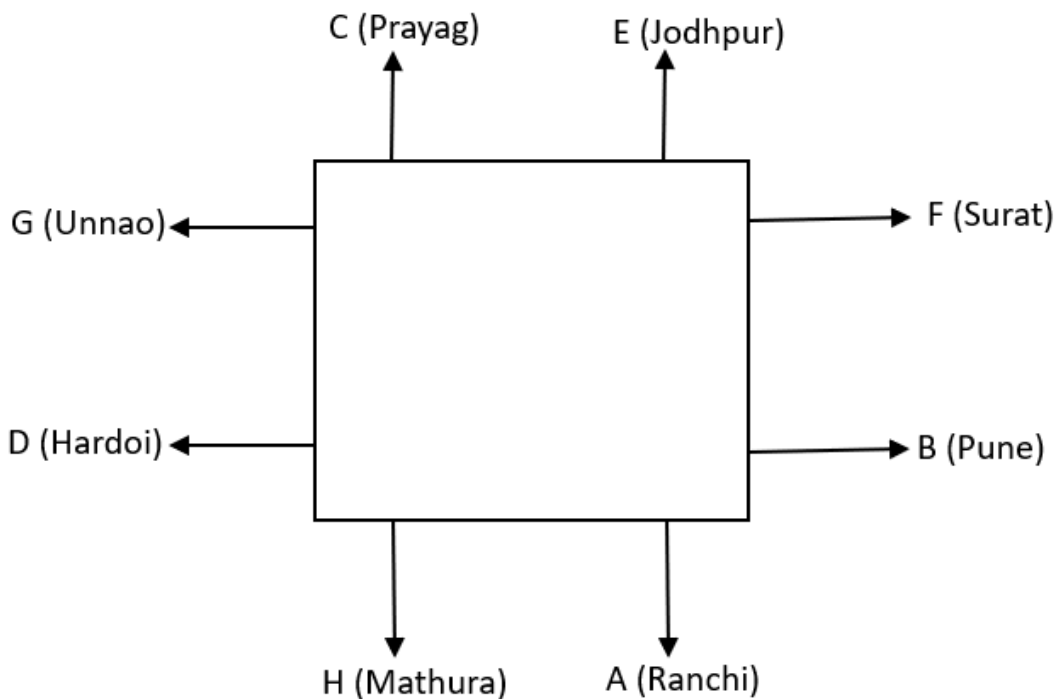


The person who belongs to Jodhpur sits immediate right of C. D belongs to Hardoi and sits opposite to the person who belongs to Pune.

E is not an immediate neighbour of D. G does not belong to Ranchi. F belongs to Surat.

Here, case 2(a), is eliminated.

The final arrangement is



Q.71) (a)

Explanation:

From the above arrangement, it is clear that D is sitting second to the right of the one who belongs to Ranchi.

Q.72) (a)

Explanation:

G sits second to the right of H.

Q.73) (c)

Explanation:

F sits third to the left of the person who belongs to Mathura.

Q.74) (d)

Explanation:

From the above arrangement, it is clear that F sits to the immediate left of the one who belongs to Pune.

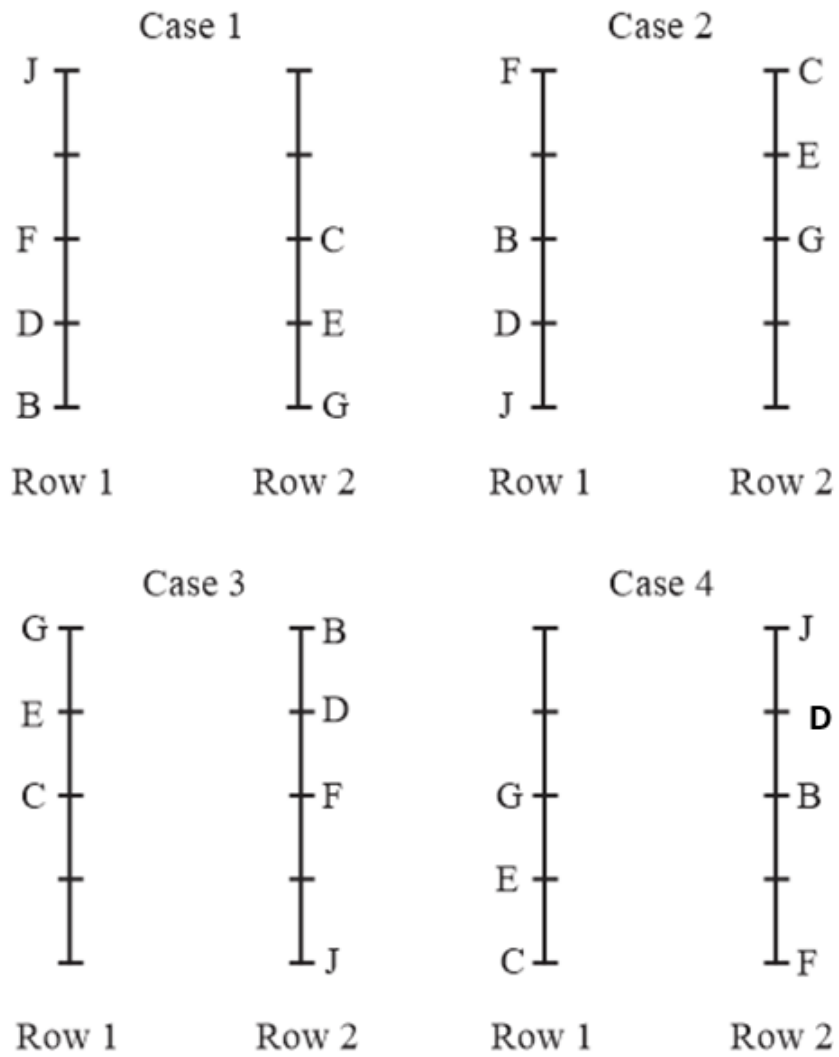
Solution for Q.75 to Q.78:

J sits at one of the extreme ends and sits three places away from the one who faces E.

B faces the one who sits to the immediate left of E.

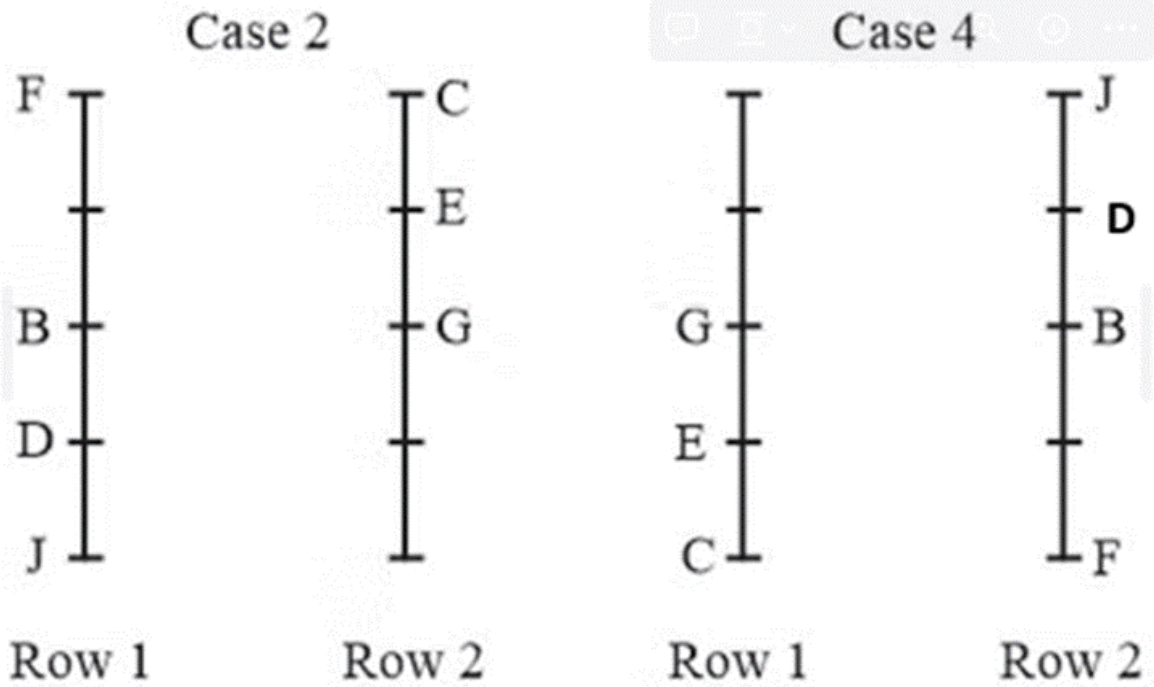
Only one person sits between B and F, who faces C.

Now, J either sits at the extreme right or left end of row 1 or sits at the extreme right or left end of row 2.



G sits second to the left of C and is sitting adjacent to the one who faces D.

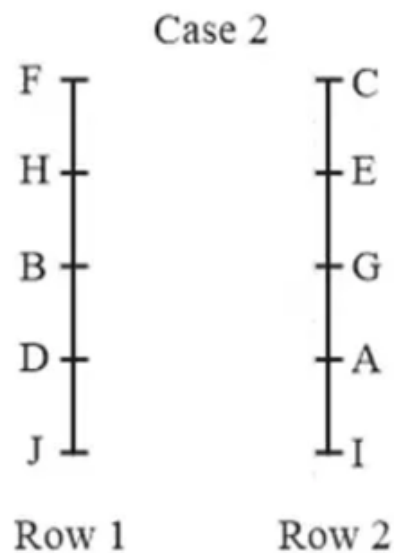
F is not sitting adjacent to D. Because of this condition, Case 1 and Case 3 will be eliminated.



Neither A nor H sits at the extreme ends.

H neither faces west nor sits adjacent to G. From both conditions, Case 4 is also eliminated.

So, the final arrangement is



Q.75) (d)

Explanation:

F sits immediate left of H.

Q.76) (d)

Explanation:

H sits second to the left of D.

Q.77) (c)

Explanation:

A sits immediate left of G.

Q.78) (b)

Explanation:

D sits opposite of A.

Q.79) (a)

Explanation:

M is the father of N and N is the son of V.

Hence, V is the mother of N.

From (1), P is the brother of V.

Therefore, M is the brother-in-law of P because V is the wife of M.

From (2), the daughter of N is the granddaughter of V. From this we do not get any relation of M to P.

Hence the correct answer is 'Only (1) is sufficient'.

Q.80) (d)

Explanation:

Reverse of NAIL = LIAN

Reverse of PAIL = LIAP

Reverse of RAIL = LIAR (meaning: a dishonest person)

Reverse of MADAM = MADAM (meaning: a respectable way to call a lady)

Reverse of REST = TSER

Only the reverse words of MADAM and RAIL that is MADAM and LIAR respectively are meaningful.

According to the question, as more than one word when reversed gives a meaningful word, result is 'S'.

So, the answer is 'S'.