

MBA PIONEER 2024

Data Interpretation & Logical Reasoning

DPP: 2

Distribution - 1

Directions (1-5) Read the following passage and answer the given questions.

Shazia, Farah and Nazia are three sisters who live in Delhi, Lucknow and Chandigarh but not necessarily in the same order. They are married to three brothers Salman, Arbaaz and Sohail but not necessarily in the same order. Further it is known that-

1. The sister who lives in Chandigarh is married to Sohail.
2. Arbaaz is married to the Doctor.
3. The sister, who is a Doctor, lives in Lucknow.
4. Farah is the only sister who is short heighted.
5. The sister with the short height does not have a mobile phone to make a call.
6. Nazia rings her Doctor sister every weekend.
7. The only sister who doesn't have a mobile lives in Delhi.
8. Farah receives an email from Lucknow on the first day of every Month.

Q1 Farah is married to whom?

- (A) Salman
- (B) Sohail
- (C) Arbaaz
- (D) Cannot be determined

Q2 Who is the Doctor?

- (A) Nazia
- (B) Shazia
- (C) Farah
- (D) Cannot be determined

Q3 Who lives in Chandigarh?

- (A) Nazia
- (B) Shazia
- (C) Farah
- (D) Cannot be determined

Q4 Who lives in Lucknow?

- | | |
|------------|-----------|
| (A) Salman | (B) Nazia |
| (C) Arbaaz | (D) Farah |

Q5 The married couple living in Delhi is-

- | |
|-----------------------|
| (A) Salman and Farah |
| (B) Arbaaz and Shazia |
| (C) Sohail and Nazia |
| (D) Salman and Shazia |

Directions (6-10) Read the following passage and answer the given questions.

Seven persons were born in different years – 1962, 1967, 1975, 1982, 1987, 1993 and 1996 but in the same month. No two persons were born in the same year. The age was calculated based on the base year 2020. Two persons were born between N and Q. O was born before S but not immediately. More than two persons were born between M and P. Q is five years elder than M. R was born in a leap year.

Q6 How many people were born before O?

- | | |
|-----------|---------|
| (A) Four | (B) One |
| (C) Three | (D) Two |

Q7 Difference between the ages of N and P is :

- | | |
|--------|--------|
| (A) 13 | (B) 11 |
| (C) 9 | (D) 7 |

Q8 Four of the following were in a certain group, which of the following does not belong to that group?

- | | |
|-------|-------|
| (A) O | (B) R |
| (C) M | (D) N |

Q9 Sum of the ages of R and O is:

- | | |
|--------|--------|
| (A) 63 | (B) 67 |
| (C) 69 | (D) 71 |



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- Q10** Which of the following combinations is true (according to their ages)?
 (A) M > P < R < Q
 (B) Q > M > R > N
 (C) M < Q > O < N
 (D) O < M < Q > N

Directions (11-15) Read the following passage and answer the given questions.

Seven friends Aman, Balla, Chittu, Durgesh, Esha, Farhan and Gautam live in the same colony. Each of them has a favourite subject from Physics, Chemistry, Maths, Biology, Computers, Biotechnology and English but not necessarily in the same order. They also play a sport from Kho-Kho, Gillidanda, Kabaddi, Cricket, Hockey, Volleyball and Car Racing but not necessarily in the same order. It is also known that-

1. Chittu likes Biotechnology and plays Hockey.
2. The one who plays Kho-Kho likes English.
3. Esha does not play Gillidanda and Kabaddi.
4. Farhan does not like Maths and Biology.
5. The one who does Car Racing does not like Physics.
6. Gautam likes Chemistry and he plays Volleyball.
7. Durgesh likes Computers.
8. Balla plays Gillidanda.
9. Farhan neither likes English nor Car Racing.
10. Aman plays Cricket.
11. The one who plays Gillidanda does not like Biology.

Q11 Who likes Maths?

- (A) Aman (B) Balla
 (C) Chittu (D) Farhan

- Q12** Choose the correct combination of subject and sport.
 (A) Physics – Cricket
 (B) Computers – Car Racing
 (C) Maths – Hockey
 (D) Biotechnology – Volleyball

Q13 What is Balla's favourite sport?

- (A) Cricket (B) Kabaddi
 (C) Gillidanda (D) Kho-kho

Q14 Who does Car Racing?

- (A) Durgesh (B) Gautam
 (C) Balla (D) None of these

Q15 Which subject does Esha like?

- (A) Physics (B) Chemistry
 (C) Biology (D) None of these

Directions (16-20) Read the following passage and answer the given questions.

Six couples stay in six different cities – Lucknow, Kashi, Mathura, Delhi, Ajodhya and Prayag Raj but not necessarily in the same order. All the six males of these couples like six different sports – Cycling, Skipping, Yoga, Running, Jumping and Kabaddi but not necessarily in the same order. They are married to 2 Models, Actress, Singer, Airhostess and Housewife not necessarily in the same order. It is also known that -

- (i). The male who likes Skipping is married to a Model, but does not belong to either Mathura or Delhi.
- (ii). The Actress and the male who likes Kabaddi do not stay in Prayag Raj and Ajodhya respectively.
- (iii). The male who likes Yoga is not married to either Actress or Singer, but his wife is not a housewife either.
- (iv). One of the Models stays in Delhi.
- (v). The male who like Yoga, Running and Cycling stay in Mathura, Prayag Raj and Kashi respectively.
- (vi). The female who stays in Ajodhya is a Housewife.

Q16 Who is married to a male who likes Yoga?

- (A) Housewife (B) Singer
 (C) Actress (D) Air hostess

Q17 In which city does a male who likes Skipping stay?

- (A) Prayag Raj (B) Delhi



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- (C) Ajodhya (D) Lucknow

Q18 In which city does the person who likes Jumping stay?
(A) Prayag Raj (B) Delhi
(C) Ajodhya (D) Lucknow

Q19 In which city does the Actress stay?
(A) Lucknow (B) Kashi
(C) Mathura (D) Ajodhya

Q20 Who is married to a male who likes Kabaddi?
(A) Model (B) Air hostess
(C) Actress (D) Singer

Q22 Who was the prime minister from the year 2010-14 ?
(A) T (B) U
(C) R (D) Q

Q23 Which one among the following is the correct combination of year and the prime minister?
(A) 2007 – S (B) 2005 – P
(C) 2012 – U (D) 2001 – Q

Q24 Which one among the following is the correct combination of year and the president?
(A) 1999 – S (B) 1999 – A

Directions (21-25) Read the following passage and answer the given questions.

The tenure for presidents and prime ministers is four years in a country named Kailasha. The country came into existence on January 1, 1998. The tenures for president and prime ministers are 1998-02, 2002-06, 2006-10, 2010-14, 2014-18 and 2018-22.

During these six tenures, the presidents were A, B, C, D, E and F but not necessarily in the same order. Also, the prime ministers during these six tenures were P, Q, R, S, T and U but not necessarily in the same order. It is also known that –

1. B was the third president after S completed his tenure as a prime minister.
 2. C was the second president before T started his term as a prime minister.
 3. S was not the prime minister during the same tenure when E was the president.
 4. A was president in the same tenure as Q was a prime minister.
 5. Neither Q nor U was the last among the six prime ministers.
 6. P was the third prime minister and D was the fifth of the presidents

Directions (26-30) Read the following passage and answer the given questions.

Investment Mela was held in five states of India – Uttar Pradesh, Madhya Pradesh, Rajasthan, Jharkhand and Bihar. Five investors – Mr A, Mr B, Mr C, Mr D and Mr E – visited these five states such that each investor visited exactly four states. Further, each state has a different capital city among Lakhnupur, Balrampur, Kushnagar, Keshavnagar and Aliganj. Any investor who visited a state definitely visited its capital city.

It is also known that

1. For any pair of investors, the number of states that both of them visited was at most three.
 2. Mr C visited Jharkhand, but did not visit Kushnagar, while both Mr A and Mr D visited Keshavnagar.
 3. Mr D visited Uttar Pradesh, whose capital city is not Kushnagar, while the capital city of Rajasthan is not Aliganj.
 4. Both Mr A and Mr E visited Aliganj, while both Mr B and Mr C visited Rajasthan.



5. Mr E visited Keshavnagar, but he did not visit Bihar, the capital city of which is not Balrampur.

Q26 Which state did Mr A not visit ?

- (A) Madhya Pradesh
- (B) Uttar Pradesh
- (C) Rajasthan
- (D) Cannot be determined

Q27 Which of the following states did all three of Mr A, Mr B and Mr C visit?

- (A) Madhya Pradesh (B) Jharkhand
- (C) Rajasthan (D) Uttar Pradesh

Q28 Which city did Mr E not visit?

- (A) Aliganj
- (B) Balrampur
- (C) Lakhapur
- (D) Cannot be determined

Q29 What is the capital city of Uttar Pradesh?

- (A) Balrampur (B) Keshavnagar
- (C) Aliganj (D) Lakhapur

Q30 Choose odd one out from given combinations-

- (A) Mr A, Balrampur
- (B) Mr B, Aliganj
- (C) Mr C, Kushnagar
- (D) Mr E, Lakhapur



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Answer Key

Q1 (A)
Q2 (B)
Q3 (A)
Q4 (C)
Q5 (A)
Q6 (D)
Q7 (B)
Q8 (C)
Q9 (C)
Q10 (D)
Q11 (B)
Q12 (B)
Q13 (C)
Q14 (A)
Q15 (D)

Q16 (D)
Q17 (D)
Q18 (C)
Q19 (B)
Q20 (A)
Q21 (D)
Q22 (B)
Q23 (C)
Q24 (C)
Q25 (B)
Q26 (C)
Q27 (B)
Q28 (C)
Q29 (B)
Q30 (B)



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Hints & Solutions

Q1. Text Solution:

By conditions 4, 5 and 7, we can conclude that Farah lives in Delhi. Now from condition 6, we can conclude that Nazia is not a Doctor. From condition 3, since Farah lives in Delhi, she is also not a Doctor. Thus, Shazia is a Doctor and lives in Lucknow. From condition 2, Arbaaz is married to Shazia.

Now Farah lives in Delhi and Shazia in Lucknow, it is obvious that Nazia lives in Chandigarh. Now by Condition 1, Sohail is married to Nazia.

We can have the following conclusion table-

	Lives in	Married to	
Shazia	Lucknow	Arbaaz	Doctor
Farah	Delhi	Salman	Short Height
Nazia	Chandigarh	Sohail	

Farah is married to Salman.

Hence option a.

Q2. Text Solution:

By conditions 4, 5 and 7, we can conclude that Farah lives in Delhi. Now from condition 6, we can conclude that Nazia is not a Doctor. From condition 3, since Farah lives in Delhi, she is also not a Doctor. Thus, Shazia is a Doctor and lives in Lucknow. From condition 2, Arbaaz is married to Shazia.

Now Farah lives in Delhi and Shazia in Lucknow, it is obvious that Nazia lives in Chandigarh. Now by Condition 1, Sohail is married to Nazia.

We can have the following conclusion table-

	Lives in	Married to	
Shazia	Lucknow	Arbaaz	Doctor
Farah	Delhi	Salman	Short Height
Nazia	Chandigarh	Sohail	

By the above table, Shazia is a Doctor.

Hence option B.

Q3. Text Solution:

By conditions 4, 5 and 7, we can conclude that Farah lives in Delhi. Now from condition 6, we can conclude that Nazia is not a Doctor. From condition 3, since Farah lives in Delhi, she is also not a Doctor. Thus, Shazia is a Doctor and lives in Lucknow. From condition 2, Arbaaz is married to Shazia.

Now Farah lives in Delhi and Shazia in Lucknow, it is obvious that Nazia lives in Chandigarh. Now by Condition 1, Sohail is married to Nazia.

We can have the following conclusion table-

	Lives in	Married to	
Shazia	Lucknow	Arbaaz	Doctor
Farah	Delhi	Salman	Short Height
Nazia	Chandigarh	Sohail	

Nazia lives in Chandigarh.

Hence option a.

Q4. Text Solution:

By conditions 4, 5 and 7, we can conclude that Farah lives in Delhi. Now from condition 6, we can conclude that Nazia is not a Doctor. From condition 3, since Farah lives in Delhi, she is also not a Doctor. Thus, Shazia is a Doctor and lives in Lucknow. From condition 2, Arbaaz is married to Shazia.

Now Farah lives in Delhi and Shazia in Lucknow, it is obvious that Nazia lives in Chandigarh. Now by Condition 1, Sohail is married to Nazia.

We can have the following conclusion table-

	Lives in	Married to	
Shazia	Lucknow	Arbaaz	Doctor
Farah	Delhi	Salman	Short Height
Nazia	Chandigarh	Sohail	

Arbaaz is married to Shazia and lives in Lucknow.

Hence option c.

Q5. Text Solution:



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By conditions 4, 5 and 7, we can conclude that Farah lives in Delhi. Now from condition 6, we can conclude that Nazia is not a Doctor. From condition 3, since Farah lives in Delhi, she is also not a Doctor. Thus, Shazia is a Doctor and lives in Lucknow. From condition 2, Arbaaz is married to Shazia.

Now Farah lives in Delhi and Shazia in Lucknow, it is obvious that Nazia lives in Chandigarh. Now by Condition 1, Sohail is married to Nazia.

We can have the following conclusion table-

	Lives in	Married to	
Shazia	Lucknow	Arbaaz	Doctor
Farah	Delhi	Salman	Short Height
Nazia	Chandigarh	Sohail	

Salman and Farah is a married couple who lives in delhi.

Hence option a.

Q6. Text Solution:

Q is five years elder than M. R was born in a leap year.

	Case 1		Case 2
Year	Age	Person	Person
1962	58	Q	
1967	53	M	
1975	45		
1982	38		Q
1987	33		M
1993	27		
1996	24	R	R

Two persons were born between N and Q. O was born before S but not immediately.

More than two persons were born between M and P.

	Case 1		Case 2
Year	Age	Person	Person
1962	58	Q	N
1967	53	M	
1975	45	O	

1982	38	N	Q
1987	33	S	M
1993	27	P	S
1996	24	R	R

Case 2 is invalid.

So, the final arrangement is

		Case 1
Year	Age	Person
1962	58	Q
1967	53	M
1975	45	O
1982	38	N
1987	33	S
1993	27	P
1996	24	R

So, two people were born before O.

Q7. Text Solution:

Age of N = 38

Age of P = 27

So, the difference is 11.

Q8. Text Solution:

Only M's age was in a prime number.

Q9. Text Solution:

Age of R = 24

Age of O = 45

So, the sum is 69.

Q10. Text Solution:

The correct combination is O < M < Q > N.

Q11. Text Solution:

By (1), we have

Fly.	Chem.	Maths	Bio	Comp.	Biotech	Eng		Kho-kho	Crick	Hockey	Volley	Gilli	Kabaddi	Car Racing
								Aman						
								Balla						
								Chittu						
								Durgesh						
								Esha						
								Farhan						
								Gautam						

By (6), we have



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Phy.	Chem.	Maths	Bio	Comp.	Biotech	Eng		Kho-kho	Crick	Hockey	Volley	Gilli	Kabaddi	Car Racing
							Aman			x	x			
							Balla			x	x			
x	x	x	x	x	x	✓	x	x	✓	x	x	x	x	x
x	x	x	x	x	x		Chittu	x	x	✓	x	x	x	x
x	x	x	x	x	x		Durgesh			x	x			
x	x	x	x	x	x		Esha			x	x			
x	x	x	x	x	x		Farhan			x	x			
x	✓	x	x	x	x	x	Gautam	x	x	x	✓	x	x	x

By (7), (8) and (10), we have

Phy.	Chem.	Maths	Bio	Comp.	Biotech	Eng		Kho-kho	Crick	Hockey	Volley	Gilli	Kabaddi	Car Racing
							Aman	x	✓	x	x	x	x	x
							Balla	x	x	x	x	✓	x	x
x	x	x	x	x	x	✓	x	x	✓	x	x	x	x	x
x	x	x	x	x	x		Chittu	x	x	✓	x	x	x	x
x	x	x	x	x	x		Durgesh			x	x	x	x	✓
x	x	x	x	x	x		Esha			x	x	x	x	
x	x	x	x	x	x		Farhan			x	x	x	x	
x	✓	x	x	x	x	x	Gautam	x	x	x	✓	x	x	x

Similarly, we can have the following table by using the rest of the information

Phy.	Chem.	Maths	Bio	Comp.	Biotech	Eng		Kho-kho	Crick	Hockey	Volley	Gilli	Kabaddi	Car Racing
x	x	x	x	✓	x	x	x	Aman	x	✓	x	x	x	x
x	x	✓	x	x	x	x	x	Balla	x	x	x	x	✓	x
x	x	x	x	x	x		Chittu	x	x	✓	x	x	x	x
x	x	x	x	x	x		Durgesh			x	x	x	x	✓
x	x	x	x	x	x		Esha	✓	x	x	x	x	x	
✓	x	x	x	x	x	x	Farhan	x	x	x	x	✓	x	x
x	✓	x	x	x	x	x	Gautam	x	x	x	✓	x	x	x

Balla likes Maths.

Hence option B.

Q12. Text Solution:

By (1), we have

Phy.	Chem.	Maths	Bio	Comp.	Biotech	Eng		Kho-kho	Crick	Hockey	Volley	Gilli	Kabaddi	Car Racing
							Aman		x					
							Balla		x					
x	x	x	x	x	x	✓	x	x	✓	x	x	x	x	x
x	x	x	x	x	x		Chittu	x	x	✓	x	x	x	x
x	x	x	x	x	x		Durgesh			x				
x	x	x	x	x	x		Esha			x				
x	x	x	x	x	x		Farhan			x				
x	✓	x	x	x	x	x	Gautam			x				

By (6), we have

Phy.	Chem.	Maths	Bio	Comp.	Biotech	Eng		Kho-kho	Crick	Hockey	Volley	Gilli	Kabaddi	Car Racing
							Aman		x	x				
							Balla		x	x				
x	x	x	x	x	x	✓	x	x	✓	x	x	x	x	x
x	x	x	x	x	x		Chittu	x	x	✓	x	x	x	x
x	x	x	x	x	x		Durgesh			x				
x	x	x	x	x	x		Esha			x				
x	x	x	x	x	x		Farhan			x	x			
x	✓	x	x	x	x	x	Gautam	x	x	x	✓	x	x	x

By (7), (8) and (10), we have

Phy.	Chem.	Maths	Bio	Comp.	Biotech	Eng		Kho-kho	Crick	Hockey	Volley	Gilli	Kabaddi	Car Racing
							Aman	x	✓	x	x	x	x	x
							Balla	x	x	x	x	✓	x	x
x	x	x	x	x	x	✓	x	x	✓	x	x	x	x	x
x	x	x	x	x	x		Chittu	x	x	✓	x	x	x	x
x	x	x	x	x	x		Durgesh			x	x	x	x	✓
x	x	x	x	x	x		Esha			x	x	x	x	
x	x	x	x	x	x		Farhan			x	x	x	x	
x	✓	x	x	x	x	x	Gautam	x	x	x	✓	x	x	x

Similarly, we can have the following table by using the rest of the information

Phy.	Chem.	Maths	Bio	Comp.	Biotech	Eng		Kho-kho	Crick	Hockey	Volley	Gilli	Kabaddi	Car Racing
x	x	x	x	✓	x	x	Aman	x	✓	x	x	x	x	x
x	x	✓	x	x	x	x	Balla	x	x	x	x	✓	x	x
x	x	x	x	x	x		Chittu	x	x	✓	x	x	x	x
x	x	x	x	x	x		Durgesh			x	x	x	x	✓
x	x	x	x	x	x		Esha	✓	x	x	x	x	x	
✓	x	x	x	x	x	x	Farhan	x	x	x	x	✓	x	x
x	✓	x	x	x	x	x	Gautam	x	x	x	✓	x	x	x

Computers and Car Racing is the correct combination.

Hence option b.

Q13. Text Solution:

By (1), we have

Phy.	Chem.	Maths	Bio	Comp.	Biotech	Eng		Kho-kho	Crick	Hockey	Volley	Gilli	Kabaddi	Car Racing
							Aman			x				
							Balla			x				
x	x	x	x	x	x	✓	x	x	✓	x	x	x	x	x
x	x	x	x	x	x		Chittu	x	x	✓	x	x	x	x
x	x	x	x	x	x		Durgesh			x	x	x	x	
x	x	x	x	x	x		Esha			x	x	x	x	
x	x	x	x	x	x		Farhan			x	x	x	x	
x	✓	x	x	x	x	x	Gautam	x	x	x	✓	x	x	x

By (6), we have

Phy.	Chem.	Maths	Bio	Comp.	Biotech	Eng		Kho-kho	Crick	Hockey	Volley	Gilli	Kabaddi	Car Racing
							Aman	x	✓	x	x	x	x	x
							Balla	x	x	x	x	✓	x	x
x	x	x	x	x	x	✓	x	x	✓	x	x	x	x	x
x	x	x	x	x	x		Chittu	x	x	✓	x	x	x	x
x	x	x	x	x	x		Durgesh			x	x	x	x	
x	x	x	x	x	x		Esha			x	x	x	x	
x	x	x	x	x	x		Farhan			x	x	x	x	
x	✓	x	x	x	x	x	Gautam	x	x	x	✓	x	x	x

Similarly, we can have the following table by using the rest of the information



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Ply.	Chem.	Maths	Bio	Comp.	Biotech	Eng		Kho-kho	Crick	Hockey	Volley	Gilli	Kabaddi	Car Racing
✓	✗	✗	✓	✗	✗	✗	Aman	✗	✓	✗	✗	✗	✗	✗
✗	✗	✓	✗	✗	✗	✗	Balla	✗	✗	✗	✗	✓	✗	✗
✗	✗	✗	✗	✓	✗	✗	Chittu	✗	✗	✓	✗	✗	✗	✗
✗	✗	✗	✗	✓	✗	✗	Durgesh	✗	✗	✗	✗	✗	✗	✓
✗	✗	✗	✗	✓	✗	✗	Esha	✓	✗	✗	✗	✗	✗	✗
✓	✗	✗	✗	✗	✗	✗	Farhan	✗	✗	✗	✗	✓	✗	✗
✗	✓	✗	✗	✗	✗	✗	Gautam	✗	✗	✓	✗	✗	✗	✗

Balla plays Gillidanda.

Hence option c.

Q14. Text Solution:

By (1), we have

Ply.	Chem.	Maths	Bio	Comp.	Biotech	Eng		Kho-kho	Crick	Hockey	Volley	Gilli	Kabaddi	Car Racing
				✗			Aman		✗					
							Balla			✗				
✗	✗	✗	✗	✗	✓	✗	Chittu	✗	✗	✓	✗	✗	✗	✗
							Durgesh			✗				
							Esha			✗				
							Farhan			✗				
							Gautam			✗				

By (6), we have

Ply.	Chem.	Maths	Bio	Comp.	Biotech	Eng		Kho-kho	Crick	Hockey	Volley	Gilli	Kabaddi	Car Racing
				✗			Aman		✗					
							Balla		✗					
✗	✗	✗	✗	✗	✓	✗	Chittu	✗	✗	✓	✗	✗	✗	✗
							Durgesh			✗				
							Esha			✗				
							Farhan			✗				
							Gautam			✗				

By (7), (8) and (10), we have

Ply.	Chem.	Maths	Bio	Comp.	Biotech	Eng		Kho-kho	Crick	Hockey	Volley	Gilli	Kabaddi	Car Racing
				✗			Aman		✗					
							Balla		✗					
✗	✗	✗	✗	✗	✓	✗	Chittu	✗	✗	✓	✗	✗	✗	✗
							Durgesh			✗				
							Esha			✗				
							Farhan			✗				
							Gautam			✗				

Similarly, we can have the following table by using the rest of the information

Ply.	Chem.	Maths	Bio	Comp.	Biotech	Eng		Kho-kho	Crick	Hockey	Volley	Gilli	Kabaddi	Car Racing
				✓	✗	✗	Aman	✗	✓	✗	✗	✗	✗	✗
					✓	✗	Balla	✗	✗	✗	✗	✓	✗	✗
✗	✗	✗	✗	✗	✓	✗	Chittu	✗	✗	✓	✗	✗	✗	✗
							Durgesh	✗	✗	✗	✗	✗	✗	✓
							Esha	✓	✗	✗	✗	✗	✗	✗
							Farhan	✗	✗	✗	✗	✗	✓	✗
							Gautam	✗	✗	✗	✓	✗	✗	✗

Durgesh likes Computers and does Car Racing.
Hence option a.

Q15. Text Solution:

By (1), we have

Ply.	Chem.	Maths	Bio	Comp.	Biotech	Eng		Kho-kho	Crick	Hockey	Volley	Gilli	Kabaddi	Car Racing
							Aman							
							Balla							
✗	✗	✗	✗	✗	✗	✓	Chittu	✗	✗	✓	✗	✗	✗	✗
							Durgesh							
							Esha							
							Farhan							
							Gautam							

By (6), we have

Ply.	Chem.	Maths	Bio	Comp.	Biotech	Eng		Kho-kho	Crick	Hockey	Volley	Gilli	Kabaddi	Car Racing
							Aman							
							Balla							
✗	✗	✗	✗	✗	✗	✓	Chittu	✗	✗	✓	✗	✗	✗	✗
							Durgesh							
							Esha							
							Farhan							
							Gautam							

By (7), (8) and (10), we have

Ply.	Chem.	Maths	Bio	Comp.	Biotech	Eng		Kho-kho	Crick	Hockey	Volley	Gilli	Kabaddi	Car Racing
				✗			Aman	✗	✓	✗				
					✓	✗	Balla	✗	✗	✗	✓	✗		
✗	✗	✗	✗	✗	✓	✗	Chittu	✗	✗	✓	✗			
							Durgesh	✗	✗	✗	✗	✗		
							Esha	✓	✗	✗	✗	✗		
							Farhan	✗	✗	✗	✗	✓		
							Gautam	✗	✗	✗	✓	✗		

Similarly, we can have the following table by using the rest of the information

Ply.	Chem.	Maths	Bio	Comp.	Biotech	Eng		Kho-kho	Crick	Hockey	Volley	Gilli	Kabaddi	Car Racing
				✓	✗	✗	Aman	✗	✓	✗				
					✓	✗	Balla	✗	✗	✗	✓	✗		
✗	✗	✗	✗	✗	✓	✗	Chittu	✗	✗	✓	✗			
							Durgesh	✗	✗	✗	✗	✗		
							Esha	✓	✗	✗	✗	✗		
							Farhan	✗	✗	✗	✗	✓		
							Gautam	✗	✗	✗	✓	✗		

Esha likes English and plays Kho-kho.

Hence option d.

Q16. Text Solution:

The given set can be classified as a three-parameter problem in which two attributes are assigned to a given parameter. Here our objective is to identify the Male, Profession of wife and City.

On the right most column, the negation symbol indicates that the particular object cannot be associated with the reference parameter.

By conditions (i), (ii), (iii) and (v), we have-

Male	Profession of Wife	City	
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Skipping	Model		~Mathura, ~Delhi
Cycling		Kashi	
Yoga		Mathura	~Actress, ~Singer, ~Housewife
Runnig		Prayag Raj	~Actress
Jumping			
Kabaddi			~Ajodhya

Using conditions (iv) and (vi), the only possibility for placing Housewife+Ajodhya and Model+Delhi is with the Jumping or Kabaddi. But the male who likes Kabaddi does not live in Ajodhya. Thus, he should be associated with the Model who lives in Delhi while the male who likes Jumping with the Housewife. Hence, we get-

Male	Profession of Wife	City	
Skipping	Model		~Mathura, ~Delhi
Cycling		Kashi	
Yoga		Mathura	~Actress, ~Singer, ~Housewife
Runnig		Prayag Raj	~Actress
Jumping	Housewife	Ajodhya	
Kabaddi	Model	Delhi	~Ajodhya

Now, the males who like Yoga and Running cannot be married to the Actress. Thus the only option left with Actress is the male who likes Cycling. Also the male who likes Yoga cannot be married to the Singer. Hence the male who likes Running must be married to the Singer and the male who likes Yoga married to the Airhostess. Hence, we get the following matrix -

Male	Profession of Wife	City
Skipping	Model	Lucknow
Cycling	Actress	Kashi
Yoga	Airhostess	Mathura

Runnig	Singer	Prayag Raj
Jumping	Housewife	Ajodhya
Kabaddi	Model	Delhi

By the above table, Air hostess is married to the male who likes Yoga.
Hence Option D.

Q17. Text Solution:

The given set can be classified as a three-parameter problem in which two attributes are assigned to a given parameter. Here our objective is to identify the Male, Profession of wife and City.

On the right most column, the negation symbol indicates that the particular object cannot be associated with the reference parameter.

By conditions (i), (ii), (iii) and (v), we have-

Male	Profession of Wife	City	
Skipping	Model		~Mathura, ~Delhi
Cycling		Kashi	
Yoga		Mathura	~Actress, ~Singer, ~Housewife
Runnig		Prayag Raj	~Actress
Jumping			
Kabaddi			~Ajodhya

Using conditions (iv) and (vi), the only possibility for placing Housewife+Ajodhya and Model+Delhi is with the Jumping or Kabaddi. But the male who likes Kabaddi does not live in Ajodhya. Thus, he should be associated with the Model who lives in Delhi while the male who likes Jumping with the Housewife. Hence, we get-

Male	Profession of Wife	City	
Skipping	Model		~Mathura, ~Delhi
Cycling		Kashi	



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Yoga		Mathura	~Actress, ~Singer, ~Housewife
Runnig		Prayag Raj	~Actress
Jumping	Housewife	Ajodhya	
Kabaddi	Model	Delhi	~Ajodhya

Now, the males who like Yoga and Running cannot be married to the Actress. Thus the only option left with Actress is the male who likes Cycling. Also the male who likes Yoga cannot be married to the Singer. Hence the male who likes Running must be married to the Singer and the male who likes Yoga married to the Airhostess. Hence, we get the following matrix -

Male	Profession of Wife	City
Skipping	Model	Lucknow
Cycling	Actress	Kashi
Yoga	Airhostess	Mathura
Runnig	Singer	Prayag Raj
Jumping	Housewife	Ajodhya
Kabaddi	Model	Delhi

Male who likes Skipping stays in Lucknow.

Hence option d.

Q18. Text Solution:

The given set can be classified as a three-parameter problem in which two attributes are assigned to a given parameter. Here our objective is to identify the Male, Profession of wife and City.

On the right most column, the negation symbol indicates that the particular object cannot be associated with the reference parameter.

By conditions (i), (ii), (iii) and (v), we have-

Male	Profession of Wife	City	
Skipping	Model		~Mathura, ~Delhi
Cycling		Kashi	
Yoga		Mathura	~Actress, ~Singer, ~Housewife

			~Housewife
Runnig		Prayag Raj	~Actress
Jumping			
Kabaddi			~Ajodhya

Using conditions (iv) and (vi), the only possibility for placing Housewife+Ajodhya and Model+Delhi is with the Jumping or Kabaddi. But the male who likes Kabaddi does not live in Ajodhya. Thus, he should be associated with the Model who lives in Delhi while the male who likes Jumping with the Housewife. Hence, we get-

Male	Profession of Wife	City	
Skipping	Model		~Mathura, ~Delhi
Cycling		Kashi	
Yoga		Mathura	~Actress, ~Singer, ~Housewife
Runnig		Prayag Raj	~Actress
Jumping	Housewife	Ajodhya	
Kabaddi	Model	Delhi	~Ajodhya

Now, the males who like Yoga and Running cannot be married to the Actress. Thus the only option left with Actress is the male who likes Cycling. Also the male who likes Yoga cannot be married to the Singer. Hence the male who likes Running must be married to the Singer and the male who likes Yoga married to the Airhostess. Hence, we get the following matrix -

Male	Profession of Wife	City
Skipping	Model	Lucknow
Cycling	Actress	Kashi
Yoga	Airhostess	Mathura
Runnig	Singer	Prayag Raj
Jumping	Housewife	Ajodhya
Kabaddi	Model	Delhi

The male who likes Jumping stays at Ajodhya. Hence option c.



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Q19. Text Solution:

The given set can be classified as a three-parameter problem in which two attributes are assigned to a given parameter. Here our objective is to identify the Male, Profession of wife and City.

On the right most column, the negation symbol indicates that the particular object cannot be associated with the reference parameter.

By conditions (i), (ii), (iii) and (v), we have-

Male	Profession of Wife	City	
Skipping	Model		~Mathura, ~Delhi
Cycling		Kashi	
Yoga		Mathura	~Actress, ~Singer, ~Housewife
Runnig		Prayag Raj	~Actress
Jumping			
Kabaddi			~Ajodhya

Using conditions (iv) and (vi), the only possibility for placing Housewife+Ajodhya and Model+Delhi is with the Jumping or Kabaddi. But the male who likes Kabaddi does not live in Ajodhya. Thus, he should be associated with the Model who lives in Delhi while the male who likes Jumping with the Housewife. Hence, we get-

Male	Profession of Wife	City	
Skipping	Model		~Mathura, ~Delhi
Cycling		Kashi	
Yoga		Mathura	~Actress, ~Singer, ~Housewife
Runnig		Prayag Raj	~Actress
Jumping	Housewife	Ajodhya	
Kabaddi	Model	Delhi	~Ajodhya

Now, the males who like Yoga and Running cannot be married to the Actress. Thus the only

option left with Actress is the male who likes Cycling. Also the male who likes Yoga cannot be married to the Singer. Hence the male who likes Running must be married to the Singer and the male who likes Yoga married to the Airhostess. Hence, we get the following matrix -

Male	Profession of Wife	City
Skipping	Model	Lucknow
Cycling	Actress	Kashi
Yoga	Airhostess	Mathura
Runnig	Singer	Prayag Raj
Jumping	Housewife	Ajodhya
Kabaddi	Model	Delhi

Actress stays in Kashi.

Hence option b.

Q20. Text Solution:

The given set can be classified as a three-parameter problem in which two attributes are assigned to a given parameter. Here our objective is to identify the Male, Profession of wife and City.

On the right most column, the negation symbol indicates that the particular object cannot be associated with the reference parameter.

By conditions (i), (ii), (iii) and (v), we have-

Male	Profession of Wife	City	
Skipping	Model		~Mathura, ~Delhi
Cycling		Kashi	
Yoga		Mathura	~Actress, ~Singer, ~Housewife
Runnig		Prayag Raj	~Actress
Jumping			
Kabaddi			~Ajodhya

Using conditions (iv) and (vi), the only possibility for placing Housewife+Ajodhya and Model+Delhi is with the Jumping or Kabaddi. But the male who likes Kabaddi does not live in



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Ajodhya. Thus, he should be associated with the Model who lives in Delhi while the male who likes Jumping with the Housewife. Hence, we get-

Male	Profession of Wife	City	
Skipping	Model		~Mathura, ~Delhi
Cycling		Kashi	
Yoga		Mathura	~Actress, ~Singer, ~Housewife
Runnig		Prayag Raj	~Actress
Jumping	Housewife	Ajodhya	
Kabaddi	Model	Delhi	~Ajodhya

Now, the males who like Yoga and Running cannot be married to the Actress. Thus the only option left with Actress is the male who likes Cycling. Also the male who likes Yoga cannot be married to the Singer. Hence the male who likes Running must be married to the Singer and the male who likes Yoga married to the Airhostess. Hence, we get the following matrix -

Male	Profession of Wife	City
Skipping	Model	Lucknow
Cycling	Actress	Kashi
Yoga	Airhostess	Mathura
Runnig	Singer	Prayag Raj
Jumping	Housewife	Ajodhya
Kabaddi	Model	Delhi

Model from Delhi is married to the male who likes Kabaddi.

Hence option a.

Q21. Text Solution:

By condition 6, we have

Tenure	1998-02	2002-06	2006-10	2010-14	2014-18	2018-22
President				D		
Prime		P				

Minister						
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By condition 1, the only possibility is that S was prime minister during 1998-02 and B was president during 2010-14. Thus, we have

Tenure	1998-02	2002-06	2006-10	2010-14	2014-18	2018-22
President				B	D	
Prime Minister	S		P			

From conditions 2, 3 and 4, the only possibility is that F was president during 1998-02 and T cannot be the prime minister of the last tenure.

So, by condition 5, R is the prime minister of the last tenure given. So, definitely, A and Q served in tenure from 2002-06. Hence, we have

Tenure	1998-02	2002-06	2006-10	2010-14	2014-18	2018-22
President	F	A	C	B	D	
Prime Minister	S	Q	P			R

By condition 2, we have

Tenure	1998-02	2002-06	2006-10	2010-14	2014-18	2018-22
President	F	A	C	B	D	
Prime Minister	S	Q	P		T	R

The only possibility for E is to serve in tenure 2018-22 and U is 2010-14. Thus, we have the following matrix-

Tenure	1998-02	2002-06	2006-10	2010-14	2014-18	2018-22
President	F	A	C	B	D	E
Prime Minister	S	Q	P	U	T	R

E and R served during the tenure 2018-22.

Hence option d.

Q22. Text Solution:

By condition 6, we have

Tenure	1998-02	2002-06	2006-10	2010-14	2014-18	2018-22
President					D	



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Prime Minister			P			
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By condition 1, the only possibility is that S was prime minister during 1998-02 and B was president during 2010-14. Thus, we have

Tenure	1998-02	2002-06	2006-10	2010-14	2014-18	2018-22
President				B	D	
Prime Minister	S		P			

From conditions 2, 3 and 4, the only possibility is that F was president during 1998-02 and T cannot be the prime minister of the last tenure. So, by condition 5, R is the prime minister of the last tenure given. So, definitely, A and Q served in tenure from 2002-06. Hence, we have

Tenure	1998-02	2002-06	2006-10	2010-14	2014-18	2018-22
President	F	A	C	B	D	
Prime Minister	S	Q	P			R

By condition 2, we have

Tenure	1998-02	2002-06	2006-10	2010-14	2014-18	2018-22
President	F	A	C	B	D	
Prime Minister	S	Q	P		T	R

The only possibility for E is to serve in tenure 2018-22 and U is 2010-14. Thus, we have the following matrix-

Tenure	1998-02	2002-06	2006-10	2010-14	2014-18	2018-22
President	F	A	C	B	D	E
Prime Minister	S	Q	P	U	T	R

By the above table, U was the prime minister during the tenure 2010-14.

Hence option B.

Q23. Text Solution:

By condition 6, we have

Tenure	1998-02	2002-06	2006-10	2010-14	2014-18	2018-22
President					D	
Prime Minister			P			

By condition 1, the only possibility is that S was prime minister during 1998-02 and B was president during 2010-14. Thus, we have

Tenure	1998-02	2002-06	2006-10	2010-14	2014-18	2018-22
President				B	D	
Prime Minister	S		P			

From conditions 2, 3 and 4, the only possibility is that F was president during 1998-02 and T cannot be the prime minister of the last tenure. So, by condition 5, R is the prime minister of the last tenure given. So, definitely, A and Q served in tenure from 2002-06. Hence, we have

Tenure	1998-02	2002-06	2006-10	2010-14	2014-18	2018-22
President	F	A	C	B	D	
Prime Minister	S	Q	P			R

By condition 2, we have

Tenure	1998-02	2002-06	2006-10	2010-14	2014-18	2018-22
President	F	A	C	B	D	
Prime Minister	S	Q	P		T	R

The only possibility for E is to serve in tenure 2018-22 and U is 2010-14. Thus, we have the following matrix-

Tenure	1998-02	2002-06	2006-10	2010-14	2014-18	2018-22
President	F	A	C	B	D	E
Prime Minister	S	Q	P	U	T	R

U was the prime minister during the tenure 2010-14.

Hence in 2012, U was the prime minister.

Option c.



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Q24. Text Solution:

By condition 6, we have

Tenure	1998-02	2002-06	2006-10	2010-14	2014-18	2018-22
President				D		
Prime Minister			P			

By condition 1, the only possibility is that S was prime minister during 1998-02 and B was president during 2010-14. Thus, we have

Tenure	1998-02	2002-06	2006-10	2010-14	2014-18	2018-22
President				B	D	
Prime Minister	S		P			

From conditions 2, 3 and 4, the only possibility is that F was president during 1998-02 and T cannot be the prime minister of the last tenure. So, by condition 5, R is the prime minister of the last tenure given. So, definitely, A and Q served in tenure from 2002-06. Hence, we have

Tenure	1998-02	2002-06	2006-10	2010-14	2014-18	2018-22
President	F	A	C	B	D	
Prime Minister	S	Q	P			R

By condition 2, we have

Tenure	1998-02	2002-06	2006-10	2010-14	2014-18	2018-22
President	F	A	C	B	D	
Prime Minister	S	Q	P		T	R

The only possibility for E is to serve in tenure 2018-22 and U is 2010-14. Thus, we have the following matrix-

Tenure	1998-02	2002-06	2006-10	2010-14	2014-18	2018-22
President	F	A	C	B	D	E
Prime Minister	S	Q	P	U	T	R

F was president during the tenure 1998-02.

So in the year 1999, F was the president. Hence, option c.

Q25. Text Solution:

By condition 6, we have

Tenure	1998-02	2002-06	2006-10	2010-14	2014-18	2018-22
President						D
Prime Minister			P			

By condition 1, the only possibility is that S was prime minister during 1998-02 and B was president during 2010-14. Thus, we have

Tenure	1998-02	2002-06	2006-10	2010-14	2014-18	2018-22
President				B	D	
Prime Minister	S		P			

From conditions 2, 3 and 4, the only possibility is that F was president during 1998-02 and T cannot be the prime minister of the last tenure. So, by condition 5, R is the prime minister of the last tenure given. So, definitely, A and Q served in tenure from 2002-06. Hence, we have

Tenure	1998-02	2002-06	2006-10	2010-14	2014-18	2018-22
President	F	A	C	B	D	
Prime Minister	S	Q	P			R

By condition 2, we have

Tenure	1998-02	2002-06	2006-10	2010-14	2014-18	2018-22
President	F	A	C	B	D	
Prime Minister	S	Q	P		T	R

The only possibility for E is to serve in tenure 2018-22 and U is 2010-14. Thus, we have the following matrix-

Tenure	1998-02	2002-06	2006-10	2010-14	2014-18	2018-22
President	F	A	C	B	D	E
Prime Minister	S	Q	P	U	T	R

Prime Minister	S	Q	P	U	T	R
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T and D served in the same tenure.

Hence option b.

Q26. Text Solution:

Please note that out of 5 states any investor visited 4 states

The number of ways by which one can choose 4 states out of five is 5C_4 ways = 5 ways.

Given that each investor visited four states.

From (1), each person must not have visited a different state. As most of the conditions are related to persons and capital cities, we should start with determining the city each person did not visit. From (2), Mr C did not visit Kushnagar. Hence Mr C must have visited all the other capital cities. Also all the other investors must have visited Kushnagar. Mr A and Mr D visited Keshavnagar.

From (4), Mr A and Mr E visited Aliganj.

From (5), Mr E visited Keshavnagar. Hence everyone except Mr B visited Keshavnagar. Thus, Mr B must have visited all the other cities. Mr A and Mr E must not have visited Lakhapur and Balrampur (not necessarily respectively). Mr E did not visit Bihar and the capital of Bihar was not Balrampur. Thus, the capital of Bihar must be Lakhapur and Mr E must not have visited Lakhapur. Mr A must not have visited Balrampur.

From (3), the capital city of Rajasthan is not Aliganj. From (4), both Mr B and Mr C visited Rajasthan. But Mr B did not visit Keshavnagar and Mr C did not visit Kushnagar, hence the capital city of Rajasthan cannot be

Keshavnagar and Kushnagar. Thus, the capital city of Rajasthan must be Balrampur.

From (3), Mr D visited Uttar Pradesh and Kushnagar is not the capital city of Uttar Pradesh. Since Mr D did not visit Aliganj, Aliganj is not the capital of Uttar Pradesh. Hence, Keshavnagar must be the capital city of Uttar Pradesh.

From (2), Mr C visited Jharkhand but did not visit Kushnagar. Hence, Kushnagar cannot be the capital city of Jharkhand. Hence, the capital city of Jharkhand must be Aliganj. Kushnagar must be the capital city of Madhya Pradesh.

Let us collect all the conclusions of capital cities and the states that they visited in the following table -

States →	Uttar Pradesh	Madhya Pradesh	Rajasthan	Jharkhand	Bihar
Capital	Keshavnagar	Kushnagar	Balrampur	Aliganj	Lakhapur
Mr A	✓	✓	✗	✓	✓
Mr B	✗	✓	✓	✓	✓
Mr C	✓	✗	✓	✓	✓
Mr D	✓	✓	✓	✗	✓
Mr E	✓	✓	✓	✓	✗

Mr A did not visit Rajasthan. Hence Option C.

Q27. Text Solution:

Mr A, Mr B and Mr C all visited Jharkhand.

Hence Option b.

Q28. Text Solution:

Mr E did not visit Lakhapur.

Hence Option c.

Q29. Text Solution:

The capital city of Uttar Pradesh is "Keshavnagar".

Hence Option b.

Q30. Text Solution:

Except Option b, in rest of all the options investor and city that is not visited by him is given. So option b is an odd one out.



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