



# QUANTITATIVE APTITUDE

## LOGICAL REASONING



Useful for :

ALL CA FOUNDATION ASPIRANTS

BY :- RAHUL BHUTANI SIR

09

# Number Series, Coding Decoding

1. The next two terms of the series: 9, 12, 11, 14, 13, 16, 15,...?  
(a) 14, 13 (b) 18, 21  
(c) 14, 17 (d) 18, 17

2. What comes next in the sequence: 7, 10, 8, 11, 9, 12,...?  
(a) 10 (b) 15  
(c) 9 (d) None of these

3. Find the next number in the series 2, 5, 11, 23, 47,..  
(a) 84 (b) 95  
(c) 98 (d) 105

4. The number in place of question mark in 7, 26, 63, 124, 215, ?, 511 is  
(a) 342 (b) 432  
(c) 441 (d) 421

5. Find the missing number in the following series? 3, 5, 5, 19, 7, 41, 9, 7, 109  
(a) 71 (b) 61  
(c) 69 (d) 70

6. What is the missing number in the sequence given below? 12, 9, 13, 50, 30, 375, ?, 341, 71875  
(a) 91.125 (b) 89.145  
(c) 90.475 (d) 92.485

7. What number should come next: 3, 8, 27, 112,...?  
(a) 256 (b) 408  
(c) 565 (d) None of the above

8. Find next term of the series 10, 69, 236, 595,?  
(a) 1254 (b) 1020  
(c) 1320 (d) 1200

9. Find next term of the letter series QPO, NML, KJI, HGF,\_\_\_  
(a) EDC (b) HGE  
(c) CAB (d) GHI

10. Identify the sequence of letters and find out the missing number. AGM, DJP, HNT,\_\_\_  
(a) MSY (b) NTZ  
(c) LRX (d) KQW

11. If TAP is coded as SZO, then how is FRIEND coded?  
(a) EQJDNC (b) EQHDMC  
(c) GSIEND (d) None of above



12. In a certain code INACTIVE is written as VITCANIE, how is COMPUTER written in the same code  
 (a) MOCRETU (b) ETUPMOCR  
 (c) UTEPMOOR (d) MOCPETUR

13. In a certain language SIKKIM is written as THLJJL, then how is TRAINING written in the code?  
 (a) SQBHOHOH (b) UQBHOHO  
 (c) UQBJOHOH (d) UQBJOHOM

14. In certain code language, if TOUR, is written as 1234, CLEAR is written 56784 and SPARE is written as 908 47, Find the code for CARE?  
 (a) 1247 (b) 4847  
 (c) 5247 (d) 5847

15. In a certain code language if CAMP is written as 9, then same code how will the word TEAM be written?  
 (a) 14 (b) 9  
 (c) 27 (d) 33

16. If 'sky' is 'star' is 'cloud', 'cloud' is 'earth' is 'tree' is 'book'. Then where do the birds fly?  
 (a) Cloud (b) Sky  
 (c) Star (d) Date inadequate

17. If A = 2, M = 26, Z = 52. Then BET = ?  
 (a) 44 (b) 54  
 (c) 64 (d) 72

18. If in a certain code '493' means 'Friendship difficult challenge', '961', means, struggle difficult Exam. And '178' means 'Exam believable subject' then which digit is used for 'believable'?  
 (a) 7 or 8 (b) 7 or 9  
 (c) 8 (d) 8 or 1

19. If 'GOAL' is coded as 'HPBM' and 'FROCK' is coded as 'GSPTL' then how will 'LOFAR' be coded?  
 (a) MPGZO (b) MNEBS  
 (c) MPGBS (d) MPEBR

20. Find the odd one out of the following: 1,5,7,11,14,17,21  
 (a) 5 (b) 11  
 (c) 14 (d) 21

21. Find the odd man out of the following: 13,14,18,27,32,43,68  
 (a) 27 (b) 43  
 (c) 32 (d) 68

22. Find the odd man out of the following data?  
 190,145,136,352,460,324,631,244  
 (a) 460 (b) 244  
 (c) 136 (d) 324

23. Find the odd man out: 34,105,424,2123,12756.  
 (a) 12756 (b) 2123  
 (c) 424 (d) 34

24. Which of the following is odd one?  
 (a) CEHL (b) KMPT  
 (c) OQTX (d) NPSV

25. Find the missing term: CECJ, XYTR, GIKM, \_\_\_\_\_  
 (a) TREPN (b) KMBD  
 (c) AMNL (d) JLNP

(PYQ June 24)

(PYQ Dec 23)

(PYQ Dec 22)

(MTP -2 June 23)

(MTP -2 Dec 23)

17. If A = 2, M = 26, Z = 52. Then BET = ?

(MTP -2 June 24)

(MTP -2 June 24)

(Medium)

(PYQ June 23)

(PYQ Dec 22)

(MTP -1 Jan 25)

(PYQ Jan 2025)



26. Find the odd man out from the following: Marriage, Wedlock, Divorce, Matrimony (PYQ May 2025)  
(a) Marriage (b) Wedlock  
(c) Divorce (d) Matrimony

27. Identify the next number in the following series: 2, 8, 26, 62, 122, 212, \_\_\_\_ (PYQ May 2025)  
(a) 332 (b) 338  
(c) 356 (d) 362

28. Find the odd man out from the following: 445, 221, 109, 46, 25, 11, 4 (PYQ May 2025)  
(a) 25 (b) 46  
(c) 109 (d) 221

29. In a certain code “CHAIR” is written as “GLBMY”. How is “INSTAGRAM” written? (PYQ May 2025)  
(a) 4HIFDBEN (b) 4PBWJUBO  
(c) SR0X8KV8Q (d) 5KFE24GR4

30. A certain code “564” means “all the best”, “736” means “best of luck” and “423” means “all is luck”. Which of the following is the code for “luck”? (PYQ May 2025)  
(a) 5 (b) 4  
(c) 3 (d) 7

31. In a certain code:  
“Delhi is capital” = 7 5 9\*  
“capital are beautiful” = 3 6 9\*  
“Delhi is beautiful” = 6 7 5\*  
“Patna also capital” = 9 2 4\*  
What is the code for “beautiful”? (RTP Jay 2025)  
(a) 2 (b) 4  
(c) 6 (d) 9

32. In a certain code, KAVERI is written as VAKIRE. How is MYSORE written in that code? (RTP Sep 2025)  
(a) EROSYM (b) SYMROE  
(c) SYMERO (d) SMYERP

33. Complete the series: 0, 6, 24, 60, 120, 210, \_\_\_\_ (PYQ Sep 2025)  
(a) 240 (b) 290  
(c) 336 (d) 504

34. Find the odd one out from the series: 2, 5, 10, 17, 26, 37, 50, 64 (PYQ Sep 2025)  
(a) 17 (b) 26  
(c) 37 (d) 64

35. In a certain code, GLAMOUR is written as IJCINMWP and MISRULE is written as OGUSSNC, then how will “MUSICAL” be written? (PYQ Sep 2025)  
(a) EMFJI (b) EFMJI  
(c) EFMKJ (d) EFJMI

36. In the following series, one term is wrong. Find out the wrong term: 48, 50, 82, 170, 290 (PYQ Sep 2025)  
(a) 48 (b) 50  
(c) 82 (d) 170

**Answer Key'**

- 1. (d)
- 2. (a)
- 3. (b)
- 4. (a)
- 5. (a)
- 6. (a)
- 7. (c)
- 8. (a)
- 9. (a)

- 10. (a)
- 11. (b)
- 12. (d)
- 13. (b)
- 14. (d)
- 15. (c)
- 16. (c)
- 17. (b)
- 18. (a)

- 19. (c)
- 20. (c)
- 21. (c)
- 22. (d)
- 23. (b)
- 24. (a)
- 25. (b)
- 26. (b)
- 27. (b)

- 28. (a)
- 29. (c)
- 30. (c)
- 31. (c)
- 32. (d)
- 33. (c)
- 34. (d)
- 35. (c)
- 36. (a)



10

## Direction

- Mohan starts from point A and walks 1 km towards south, turns left and walks 1 km. Then he left again and walks 1 km. Now he is facing. [Q 1, Ex 10(A) (ICAI)]
  - (a) East
  - (b) West
  - (c) North
  - (d) South-West
- Shyam was facing East. He walked 5 kms forward and then after turning to his right walked 3 kms. Again he turned to his right and walked 4 km. After this he turned back. Which direction was he facing at that time? [Q 45, Ex 10(A) (ICAI)]
  - (a) East
  - (b) West
  - (c) North
  - (d) South
- If Ajay stands on his head with his face towards North, in which direction will his left-hand point? (Hard) (PYQ Sep 24)
  - (a) North-East
  - (b) North
  - (c) East
  - (d) North-West
- One morning after sunrise, A and B were talking to each other face to face very closely at a crossing point. If B's shadow was exactly to the right of A, in which direction B was facing? (PYQ Sep 24)
  - (a) East
  - (b) West
  - (c) North
  - (d) South
- One morning after sunrise, A and B were talking to each other face to face very closely at a crossing point. If B's shadow was exactly to the right of A, in which direction B was facing? (PYQ Sep 24)
  - (a) East
  - (b) West
  - (c) North
  - (d) South
- Balkrishna is Ritik's neighbour and his house is 200 meters away in the north- west direction from Ritik's house. Jayendra is Ritik's neighbour and his house is located 200 meters away in the south-west direction from Ritik's house. Girdhari is Jayendra's neighbour and he stays 200 meters away in the south-east direction from Jayendra's house. Ritik is Girdhari's neighbour and his house is located 200 meters away in north-east direction from Girdhari's house. Then where is the position of Ritik's house in relation to Balkrishna's? (PYQ Sep 24)
  - (a) South-East
  - (b) South-West
  - (c) North
  - (d) North-East
- If Kiran put her time-piece on the table in such a way that at 6:00 PM, hour hand points to East. In which direction the minute hand will be at 9:30 PM? (PYQ Sep 24)
  - (a) South-East
  - (b) North-West
  - (c) East
  - (d) West
- If Shyam Sees the rising sun behind the tower and setting sun behind the Railway station from his house. What is the direction of tower from the Railway station? (Important) (PYQ June 24)
  - (a) South
  - (b) North
  - (c) West
  - (d) East
- Kamal walks 10 Km north from there he walks 6 Km towards south. Then he walks 3 Km towards east. How far and in which direction is he with reference to starting point? (PYQ Dec 23)
  - (a) 5 Km south - east
  - (b) 7 Km north - east
  - (c) 5 Km north-east
  - (d) 7 Km south – west
- Radha moves towards South-East a distance of 7 km, then she moves towards West and travels a distance of 14 km. from here she moves towards North-West a distance of 7 km and finally she moves a distance of 4 km towards east. How far is she now from the starting point? (PYQ Dec 22)
  - (a) 3 km
  - (b) 4 km
  - (c) 10 km
  - (d) 1 km



11. P, Q, R and S are playing a game of carom P, R and S, Q are partners, 'S' is to the right of 'R'. If 'R' is facing West, then 'Q' is facing which direction?  
(Medium) (PYQ Dec 22)  
(a) South  
(b) North  
(c) East  
(d) West

12. One morning a boy starts walking in a particular direction for 6 Km and then takes a left turn and walks another 5 Km. thereafter he again takes left turn and walks another 5 Km and at last he takes right turn and walks 5 Km. Now he sees his shadow in front of him. What direction he did start initially?  
(PYQ Dec 22)  
(a) South  
(b) North  
(c) West  
(d) East

13. It is 3'o clock in a watch. If the minute hand points towards the North-East then the hour hand will point towards the  
(PYQ Dec 22)  
(a) South  
(b) South-west  
(c) North-west  
(d) South-east

14. Puru was driving his car and at a circle there was direction pole, which was showing all the four correct directions. But due to the wind, it turns in such a manner that now North pointer is showing West. Puru went in the wrong direction thinking that he was travelling East. In what direction he was actually travelling?  
(PYQ June 22)  
(a) West  
(b) East  
(c) North  
(d) South

15. Daily in the morning the shadow of a Clock Tower installed on Railway Station falls on high rise Mall and in the evening the shadow of the same mall falls on the Clock Tower installed on Railway Station exactly. So, in which direction is Clock Tower to Mall?  
(Tricky) (PYQ Dec 21)  
(a) Eastern side  
(b) Western side  
(c) Northern side  
(d) Southern side

16. A and B start moving towards each other from two places 200 m apart. After walking 60 m, B turns left and goes 20 m then he turns right and goes 40 m, He then turns right again and comes back to the road on which he had started walking. If A and B walk with the same speed, what is the distance between them now?  
(PYQ July 21)  
(a) 80 m  
(b) 70 m  
(c) 40 m  
(d) 60 m

17. There are four towns P, Q, R and T, Q is the south-west of P, R is to the east of Q and south east of P, and T is to the north of R in line with QP. In which direction of P is T located?  
(PYQ July 21)  
(a) North  
(b) North-East  
(c) East  
(d) South-East

18. Rashmi walked 2 km west of her house and then turned south covering 4 km. Finally, she moved 3 km towards east and then again 1 km west. How far is she from her initial position?  
(MTP- 1 June 24)  
(a) 7 km  
(b) 3 km  
(c) 4 km  
(d) 12 km

19. A child is looking for his father. He went 90 meters in the east before turning to his right. He went 20 meters before turning to his right again to look for his father at his uncle's place 30 meters from this point. His father was not there. From there, he went 100 meters to his north before meeting his father in a street. How far did the son meet his father from starting point?  
(MTP- 2 June 24)  
(a) 80 m  
(b) 90 m  
(c) 100 m  
(d) 110 m

20. Ravi left home and cycled 10 km towards South, then turned right and cycled 5 km and then again turned right and cycled 10 km. After this he turned left and cycled 10 km. How many kilometers will he have to cycle to reach his home straight?  
(MTP- 1 Dec 23)  
(a) 10 m  
(b) 15 m  
(c) 12 m  
(d) 17 m

21. Hari in order to go to university started from his house in the east and came to a crossing. The road to the left ends in a theatre, straight ahead is the hospital. In which direction is the university?  
(MTP- 1 Dec 23)  
(a) North  
(b) South  
(c) East  
(d) West



22. Ram moves towards South-East a distance of 7 km, then he moves towards West and travels a distance of 14 km. from there he moves towards North-West a distance of 7 km and finally he moves a distance of 4 km towards east. How far is he now from the starting point? (MTP- 1 June 23)

(a) 3 km (b) 4 km  
(c) 10 km (d) 11 km

23. If South-East becomes North, North-East becomes West and so on. What will West become? (MTP- 2 June 23)

(a) North-East (b) North-West  
(c) South-East (d) North-East

24. A and B start moving towards each other from two places apart. After walking 60m, B turns left and goes then 20 m then he turns right and goes 40 m. He then turns right again and comes back to the road on which he had started walking. If A and B walk with the same speed, what is the distance between them now? (MTP- 2 June 23)

(a) 80 m (b) 70 m  
(c) 40 m (d) 60 m

25. There are four towns P, Q, R and T. Q is to the south-west of P, R is to the east of Q and south east of P, and T is to the north of R in line with QP. In which direction of P is T located? (MTP- 2 June 23)

(a) North (b) North-East  
(c) East (d) South-East

26. One evening A & B were standing under the sun talking face to face. The shadow of A fell exactly towards its left hand side. What direction does B face? (MTP- 2 June 23)

(a) North (b) South  
(c) East (d) West

27. A man is facing north. He turns 45 degree in the clockwise direction and then another 180 degree in the same direction and then 45 degree in the anticlockwise direction. Find which direction he is facing now? (MTP- 2 June 24)

(a) North (b) East  
(c) West (d) South

28. Pankaj is facing west. He turns  $45^\circ$  in the clockwise direction and then again, another turns with  $180^\circ$  in the same direction i.e. clockwise direction, after that he turns  $270^\circ$  in the anticlockwise direction. Which direction is he facing now? (MTP- 2 Dec 23)

(a) North-West (b) West  
(c) South-West (d) South

29. If  $P \times Q$  means P is to the south of Q:  $P + Q$  means P is to the north of Q:  $P \% Q$  means P is to the east of Q :  $P - Q$  means P is to the west of Q: then in case of  $A \% B + C - D$ , D is in which direction with respect to B? (PYQ June 22)

(a) North-West (b) South-East  
(c) North-East (d) South-East

30. In the morning Anika started walking from a point where her shadow falls in front of her. She walked 2 kms and then turned left and walked 2 kms. Again she turned left and walked 2 kms. In which direction is she now facing? (PYQ Jan 2025)

(a) South (b) West  
(c) North (d) East

31. Two cars start from opposite places on a highway 150 km apart. First car runs for 25 km and takes a right turn and then runs 15 km. It then turns left and runs for another 25 km and then takes the direction back to reach the main road. In the meantime, due to a minor breakdown the other car has run only 35 km along the main road. What would be the distance between the two cars at this point? (PYQ May 2025)

(a) 65 km (b) 75 km  
(c) 80 km (d) 85 km

32. Ravi faces towards North. Turning to his right, he walks 25 meters. He turns to his left and walks 30 meters. Next, he moves 25 meters to his right. He then turns to his right again and walks 55 meters. Finally, he turns to the right and moves 40 meters. In which direction is he now from his starting point? (RTP Sep 2025)

(a) South-West (b) South  
(c) North-West (d) South-East



**Answer Key'**

1. (c)  
2. (a)  
3. (c)  
4. (b)  
5. (b)  
6. (a)  
7. (c)  
8. (d)

9. (c)  
10. (c)  
11. (b)  
12. (b)  
13. (d)  
14. (c)  
15. (a)  
16. (c)

17. (b)  
18. (c)  
19. (c)  
20. (b)  
21. (a)  
22. (c)  
23. (c)  
24. (c)

25. (b)  
26. (a)  
27. (d)  
28. (c)  
29. (d)  
30. (a)  
31. (a)  
32. (d)

11

# Seating Arrangement

1. In a straight line there are six persons sitting in a row. B is between F and D. E is between A and C. A does not stand next to F or D, C does not stand next to D. F is between which of the following persons?  
(a) B and E  
(b) B and C  
(c) B and D  
(d) B and A (MTP –1 June 24)

2. A, B, C, D, E, F and G are sitting in a straight line facing north, but not necessarily in the same order. There is only one person between F and C. E sits between A and D. There are only two person between E and G. F sits on the immediate left of A. who sits in the middle of the row. How many persons are there between E and F  
(a) 1  
(b) 2  
(c) 3  
(d) 4 (MTP –2 June 24)

3. 5 persons are standing in a line. One of the 2 persons at the extreme ends is a professor and the other a businessman. An advocate is standing to the right of student. An author is to the left of the businessman. The student is standing between the professor and advocate. Counting from the left, the author is at which place?  
(a) 2nd  
(b) 3rd  
(c) 4th  
(d) None of these (MTP –2 Dec 23)

4. P, Q R S and T are seated in a line facing west. R is sitting at north end and S is sitting at south end. T is neighbour of R and Q. P and Q are seated together, then who is sitting the middle?  
(a) P  
(b) Q  
(c) R  
(d) S (MTP –1 June 23)

5. Five players named as A, B, C, D, and E are sitting on a facing south, and are waiting to be interviewed by a selector. The person C is an immediate neighbour of both A and B. The person A is the fourth person from right end; If E is to the right of B. then where is E sitting?  
(a) Fifth from right end  
(b) Fourth from right end  
(c) Fifth from left end  
(d) Second from right end (PYQ June 24)

6. Seven friends A, B, C, D, E, F and G are sitting in a row. E is sitting at one extreme end. C is sitting second to E. B is sitting between A and C. G is not sitting at any extreme end. A is not at any extreme end. D is sitting immediate to F. Who is sitting in the middle?  
(a) C  
(b) D  
(c) G  
(d) B (PYQ June 23)

7. In a line, P is sitting 13th from left. Q is sitting 24th from the right and 3rd left from P. How many people are sitting in the line?  
(a) 34  
(b) 31  
(c) 32  
(d) 33 (PYQ June 22)

8. In a conference, seven participants labeled A, B, C, D, E, F, and G are seated in a row. The following statements are given  
(I) C is seated to the left of B, but on the right of D.  
(II) A is seated to the right of B.  
(III) F is seated to the right of E, but to the left of D.  
(IV) H is seated to the left of E  
Which person is seated at the extreme right end?  
(a) H  
(b) D  
(c) A  
(d) None of these



9. In a residential complex, five families named A, B, C, D, and E are living in a multi-storeyed building. The following statements are given:  
 Family A lives in a flat above Family B.  
 Family C lives in a flat below Family D.  
 Family B lives in a flat above Family D.  
 Family E lives in a flat below Family C. Which family lives in the middle?  
 (a) Family A (b) Family B  
 (c) Family C (d) Family D

10. Eight persons A, B, C, D, E, F, G and H are sitting in a line. E sits second right to D. H sits fourth left to D. C and F are immediate neighbours, but C is not immediate neighbour of A. G is not neighbour of E. Only two persons sit between A and E. The persons on left end and right end respectively are  
 (a) G and E (b) B and E  
 (c) H and E (d) G and B

11. Six persons B, D, C, M, J and K are split into groups of three each and are made to stand in two rows in such a way that a person in one row is exactly facing a person in the other row. M is not at the ends of any row and is to the right of J, who is facing C. K is to the left of D, who is facing M. Who is to the immediate left of B?  
 (a) M (b) J  
 (c) D (d) K (PYQ Sep 24)

12. Eight persons P to W are sitting in front of one another in two rows. Each row has four persons. P is between U and V and facing North. Q, who is to the immediate left of M is facing W. R is between T and M and W is to the immediate right of V. Who is to the immediate right of R?  
 (a) M (b) U  
 (c) M or T (d) None of these [Q 26, Ex 11 (a) (ICAI)]

13. Five students are standing in a circle. Abhinav is between Alok and Ankur. Apurva is on the left of Abhishek. Alok is on the left of Apurva. Who is sitting next to Abhinav on his right?  
 (a) Apurva (b) Ankur  
 (c) Abhishek (d) Alok (Easy) (MTP -1 June 23)

14. Six friends A, B, C, D, E and F are sitting around a circular table facing towards the centre of the circle. E is not sitting between B and D. A sits to the left of F and C is fourth right of A. D is immediate right of E. Who sits second to the right of F?  
 (a) C (b) A  
 (c) D (d) B (PYQ June 23)

15. Four Ladies A, B, C and D and four Gentlemen E, F, G and H are sitting in a circle around a table facing each other.  
 (i) No two Ladies or gentlemen are sitting side by side.  
 (ii) C, who is sitting between G and E, facing D.  
 (iii) F is between D and A and facing G.  
 (iv) H is to the right of B.  
 Who is immediate neighbour of B?  
 (a) G and H (b) E and F  
 (c) E and G (d) A and B (PYQ Dec 21)

16. Six friends P, Q, R, S, T and U are sitting around the hexagonal table each at one corner and are facing the center of the hexagonal. P is second to the left of U. Q is neighbour of R and S. T is second to the left of S. Which one is sitting opposite to P?  
 (a) R (b) Q  
 (c) T (d) S (PYQ June 22)

17. Parikh is sitting between Narendra and Babita, Charu is to the left of Babita, Pankaj is sitting between Charu and Ashma, they all sitting around a circle facing the center then who is sitting to the right of Babita?  
 (a) Parikh (b) Ashma  
 (c) Charu (d) Narendra (Easy)



18. Eight persons E, F, G, H, I, J, K and L are seated around a square table, facing table -two on each side. J is between L and F; G is between I and F; H a lady member is second to the left of J; F a male member is seated opposite to E, a lady member. There is a lady member between F and I. who among the following is to the immediate left of F? (PYQ June 22)

(a) G (b) I  
(c) J (d) H

19. Four Indian A, B, C and D and four Chinese E, F, G and H are sitting in a circle around a table able facing each other in the conference. No two Indians or Chinese are sitting side by side, C who is sitting between G and E is facing D, F is between D and A and facing G, H is to the left of B. Who is sitting left to A? (Easy)

(a) E (b) F  
(c) G (d) H

20. Six girls, named P, Q, R, S, T, and V, are seated in a circle, all facing the center. The following statements are given:  
A. T is not seated between Q and S but instead, between two other individuals.  
B. P is positioned immediately to the left of V.  
C. R is located four seats to the right of P.  
Which of the following statements is not true?  
(a) V is seated just to the right of P.  
(b) T is seated just to the right of V.  
(c) R is positioned second to the left of T.  
(d) P is seated second to the right of R..

21. Five friends A, B, C, D and E are sitting in a row facing east. A is sitting between C & D. B is second to the left of C. Who is sitting at the south end? (PYQ Jan 2025)

(a) E (b) B  
(c) C (d) D

22. In a class, there are seven students (including boys and girls) A, B, C, D, E, F and G. They sit on three benches I, II and III, such that at least two students on each bench and at least one girl on each bench. C who is a girl student, does not sit with A, E and D. F the boy student sits with only B. A sits on the bench I with his best friends. G sits on the bench III. E is the brother of C. Which of the following is the group of girls? (PYQ May 2025)

(a) BCG (b) BFC  
(c) BCD (d) CDF

23. Six friends P, Q, R, S, T and U are sitting around the hexagonal table each at one corner and are facing the centre of the hexagon. P is second to the left of U. Q is neighbour of R and S. T is second to the left of S. Which one is sitting opposite to P? (PYQ May 2025)

(a) R (b) Q  
(c) T (d) S

24. Six persons A, B, C, D, E and F are sitting in a circle facing the centre. A is facing D. C is left of A and right of E. D is between B and E. F is right of A. Which one of the following statements is incorrect? (PYQ Sep 2025)

(a) F and C are neighbours.  
(b) F is between A and B.  
(c) F and A are neighbours.  
(d) B is left of D.

25. Eight friends with names P, Q, R, S, T, U, V and W are sitting on a bench and facing North. U is sitting between S and V; Q is sitting between W and P; T is third to the left of V; W is third left of R; V is sitting at one of the corners. Who is sitting immediate right of W? (PYQ Sep 2025)

(a) P (b) Q  
(c) R (d) T



**Answer Key'**

- 1. (b)
- 2. (a)
- 3. (c)
- 4. (b)
- 5. (d)
- 6. (d)
- 7. (d)

- 8. (c)
- 9. (d)
- 10. (a)
- 11. (d)
- 12. (d)
- 13. (d)
- 14. (c)

- 15. (a)
- 16. (d)
- 17. (a)
- 18. (c)
- 19. (a)
- 20. (c)
- 21. (d)

- 22. (c)
- 23. (d)
- 24. (a)
- 25. (b)



12

## Blood Relations

- A and B both are children of C. If C is the mother of A, is the son of C but B is not the daughter of C, then how are A and B mutually related?  
 (MTP -2 June 24)
 

(a) A is the brother of B	(b) A is the nephew of B
(c) A is the sister of B	(d) A is the cousin of B
- A is the mother of D and sister of B. B has a daughter C who is married to F. G is the husband of A. How is G related to D?  
 (MTP -3 June 24)
 

(a) Uncle	(b) Husband
(c) Son	(d) Father
- P is the mother of K, K is the sister of D. D is the father of J. How is P related to J?  
 (a) Mother  
 (b) Grand mother  
 (c) Aunt  
 (d) Data is in adequate
- If X is brother of son of Y's son, then how is X related to Y?  
 (MTP -2 Dec 23)
 

(a) Brother	(b) Cousin
(c) Grandson	(d) Son
- Suman is daughter-in-law of Rakesh and sister-in-law of Rajesh, Ramesh is the son of Rakesh and only brother of Rajesh. Find the relation of Suman with Ramesh.  
 (MTP -1 June 23)
 

(a) Sister-in-law	(b) Cousin
(c) Aunt	(d) Wife
- There are two couples in a family. K has two children. M is wife of O, who is brother of B. F is daughter of K. U is sister of S, who is son of O. T is son of B, who is a male. How is U related to T?  
 (MTP -1 Jan 25)
 

(a) Mother	(b) Brother
(c) Sister	(d) Cousin
- Q's mother is sister of P and daughter of M. S is daughter of P and sister of T. How is M related to T?  
 (MTP -2 Sep 24)
 

(a) Father	(b) Grand mother
(c) Grandfather or Grandmother	(d) Grandfather
- Sandhya is the daughter-in-law of Shailesh and sister-in-law of Rajan. Manak is son of Shailesh and only brother of Rajan. Then, how Sandhya is related to Manak?  
 (PYQ Sep 24)
 

(a) Sister-in-law	(b) Aunty
(c) Cousin	(d) Wife
- Ram and Mohan are brothers; Shankar is Mohan's father. Chhaya is Shankar's sister. Priya is Shankar's niece. Shubhra is Chhaya's granddaughter. Then Ram is Shubhra's  
 (b) Uncle  
 (c) Cousin  
 (d) Nephew
- B is the husband of P. Q is the only grandson of E, who is the wife of D and mother-in-law of P. How is B related to D?  
 (a) Nephew  
 (b) Cousin  
 (c) Son-in-law  
 (d) Son
- There are six children playing football namely A,B,C,D,E and F, A & E are brothers, F is sister of E, C is the only son of As uncle, B & D are daughter of the brother of C's father. How D is related to A?  
 (a) Uncle  
 (b) Cousin  
 (c) Nice  
 (d) Sister



12. Neelam, who is Deepak's daughter, says to Deepika that your mother in law Rekha is younger daughter of Ramlal, who is my grandfather. How Neelam is related to Deepika? (PYQ June 23)

(a) Cousin (b) Niece  
(c) Sister-in-law (d) Aunt

13. There are six children playing football namely A, B, C, D, E and F. A & E are brothers. F is sister of E. C is the only son of A's uncle. B & D are daughters of the brother of C's father. How D is related to A? (PYQ Dec 22)

(a) Uncle (b) Cousin  
(c) Niece (d) Sister

14. B and C are siblings. M has two children and he is son of E, who is father-in-law of H. H has only one son. C is not grand daughter of E. How's B related to E? (PYQ June 22)

(a) Daughter (b) Son  
(c) Grandson (d) Grand daughter

15. Pointing out to a photograph, a man tells his friend, "She is the daughter of the only son of my father's wife." How is the girl in the photograph related to the man? (MTP -3 June 24)

(a) Daughter (b) Mother  
(c) Cousin (d) Sister

16. Pointing to a man, a lady said "His mother is the only daughter of my mother". How is the lady related of the man? (MTP -1 June 23)

(a) Mother (b) Daughter  
(c) Sister (d) Aunt

17. A man said to a woman, Your mother's husband's sister is my aunt. How is the woman related to the man? (MTP -2 June 23)

(a) Granddaughter (b) Daughter  
(c) Sister (d) Aunt

18. Pointing to the old man Kailash said "his son is my son's uncle". How is Kailash related to an old man? (MTP -2 June 23)

(a) Brother (b) Either son or son in law  
(c) Father (d) Grand father

19. A woman said, "The man in the picture is my nephew's maternal grandfather." How is the man in the picture related to the woman? (MTP -2 June 23)

(a) Brother (b) Son  
(c) Grandfather (d) Father

20. Lalita said to Tina, "You are the daughter-in-law of the grandmother of my father's only son". How is Lalita related to Tina? (MTP -2 June 23)

(a) Aunt (b) Sister  
(c) Mother (d) Indeterminable

21. Pointing to a girl, Prasan said, she is the only granddaughter of my wife's grandfather's only child. How is the girl related to Prasan? (MTP -2 June 23)

(a) Sister (b) Niece  
(c) Daughter (d) Cannot be determined

22. Pointing to a photograph, a woman says "This man's son's sister is my mother in-law. "How is the woman's husband related to the man in the photograph? (PYQ June 23)

(a) Son (b) Son-in-law  
(c) Grandson (d) Nephew

23. Rani told Jaya, "The girl I met yesterday at the beach was the youngest daughter of the brother-in-law of my friend's mother." How is the girl related to Rani's friend? (PYQ June 22)

(a) Cousin (b) Daughter  
(c) Mother (d) Aunt

24. P \$ Q means P is the brother of Q;  
P # Q means P is the mother of Q;  
P \* Q means P is the daughter of Q  
If the code of family is A # B \$ C \* D, who is the father in them? (MTP -1 Dec 23)

(a) D (b) B  
(c) C (d) A



25. If  $X + Y$  means  $X$  is the mother of  $Y$ ;  
 $X - Y$  means  $X$  is the brother of  $Y$ ;  
 $X \% Y$  means  $X$  is the father of  $Y$  and  
 $X \times Y$  means  $X$  is the sister of  $Y$ ,  
which of the following shows that  $O$  is the maternal uncle of  $L$ ? (MTP -2 June 23)

(a)  $L - N + M \times O$       (b)  $O + S \times N - L$   
(c)  $O - M + N \times L$       (d)  $L - S \% O$

26. If  $P + Q$  means  $P$  is the mother of  $Q$ .  $P - Q$  means  $P$  is the father of  $Q$ .  $PQ$  means  $P$  is the sister of  $Q$ . Then which of the following relationship shows that  $M$  is the daughter of  $R$ ? (MTP -2 June 23)

(a)  $R + M + N$       (b)  $R + N + M$   
(c)  $R + M - N$       (d) None of these

27. 1.  $P \times Q$  means  $P$  is the brother of  $Q$ .  
2.  $P - Q$  means  $Q$  is the mother of  $P$ .  
3.  $P - Q$  means  $P$  is father of  $Q$ .  
4.  $P + Q$  means  $Q$  is the sister of  $P$ .  
How is  $K$  related to  $R$  in the expression  $R - T + K$ ? (PYQ May 2025)

(a) Daughter      (b) Sister  
(c) Niece      (d) None of these

28.  $Q, W, E, R, T$  and  $Y$  are members of a family consisting of two children, one of whom is  $T$ .  $T$  is a boy.  $Q$  and  $R$  are brothers and  $Q$  is an engineer.  $E$  is married to one of the brothers.  $W$  is married to  $R$  and  $Y$  is their only child. How  $T$  is related to  $Q$ ? (PYQ May 2025)

(a) Father      (b) Brother  
(c) Nephew      (d) Son

29.  $K$  is the son of  $A$ 's mother's sister.  $Q$  is daughter of  $P$ , who is the father of  $G$  and grandfather of  $A$ .  $P$  is the daughter of  $H$ , who is grandmother of  $K$ .  $D$  is husband of  $H$  and  $G$  is husband of  $L$ . How is  $P$  related to  $Q$ ? (PYQ May 2025)

(a) Mother      (b) Sister  
(c) Daughter      (d) Cousin

30. Study the following information carefully:  
 $A3P$  means  $A$  is the mother of  $P$ .  
 $A4P$  means  $A$  is the brother of  $P$ .  
 $A9P$  means  $A$  is the husband of  $P$ .  
 $A5P$  means  $A$  is the daughter of  $P$ .  
Which of the following means that  $K$  is the mother-in-law of  $M$ ? (PYQ May 2025)

(a)  $M9N3K4J$       (b)  $M9N5KJ$   
(c)  $K5J9M3N$       (d)  $K3J9N4M$

31. Pointing towards a photograph, Vinod said "She is the daughter of my wife's mother's only daughter." How is Vinod related to the girl in the photograph? (RTP Jan 2025)

(a) Cousin      (b) Uncle  
(c) Father      (d) None

32. Pointing to a gentleman, Deepak said, "His only brother is the father of my daughter's father." How is gentleman related to Deepak? (RTP Sep 2025)

(a) Grandfather      (b) Father  
(c) Uncle      (d) Brother-in-law

33. Ms. X told Ms. Y, "The girl I met yesterday at the market was the youngest daughter of the brother-in-law of my friend's mother." How is the girl related to Ms. X's friend? (PYQ Sep 2025)

(a) Cousin      (b) Daughter  
(c) Niece      (d) Aunt

34. There are six members, named as  $A, B, C, D, E$  and  $F$ . It is given that  $E$  is the brother of  $A$ 's husband;  $F$  is the mother of  $E$ ;  $B$  is the daughter of  $D$ ;  $A$  and  $A$  is the granddaughter of  $C$ .  
How is  $C$  related to  $E$ ? (PYQ Sep 2025)

(a) Son      (b) Father  
(c) Brother      (d) Grandfather



35. It is given that a person named A is married to B; the person E is a brother of D; and the person B is the mother of C whose sister is D. How is D related to A?

(PYQ Sep 2025)

- (a) Sister
- (b) Aunt
- (c) Daughter
- (d) Granddaughter



## Answer Key'

- 1. (a)
- 2. (d)
- 3. (b)
- 4. (c)
- 5. (d)
- 6. (d)
- 7. (a)
- 8. (d)
- 9. (b)

- 10. (d)
- 11. (d)
- 12. (c)
- 13. (b)
- 14. (d)
- 15. (b)
- 16. (a)
- 17. (c)
- 18. (b)

- 19. (d)
- 20. (d)
- 21. (c)
- 22. (c)
- 23. (a)
- 24. (a)
- 25. (c)
- 26. (a)
- 27. (d)

- 28. (d)
- 29. (b)
- 30. (b)
- 31. (c)
- 32. (c)
- 33. (a)
- 34. (b)
- 35. (c)