

Chapter-9

Number Series, Coding and Decoding and Odd Man Out

MTP-March '20

1. Find the wrong term of the series 121, 143, 165, 186, 209
(a) 143 (b) 165 ☒ (c) 186 (d) 209
2. Find missing term 7, 26, 63, 124, 215, 342 ?
(a) 391 (b) 421 (c) 481 ☒ (d) 511
3. Find odd man out of the series 145, 197, 257, 325, 399
(a) 145 ☒ (b) 399 (c) 257 (d) 325
4. Find missing term of the alphabet series ABD, DGK, HMS, MTB, SBL ?
(a) XKW (b) ZAB (c) ZKU (d) ZKW
5. In a certain language, FLOWER is coded UOLDVI, then how is TERMINAL coded in that language?
(a) FLKPMROZ ☒ (b) GVINRMZO (c) RVNIGLKA (d) MNIVGYEO

MTP-October '19

6. Find the missing term of the series 17, 14, 15, 12, 13, ?, ?
☒ (a) 10, 11 (b) 14, 11 (c) 11, 13 (d) 12, 13
7. Find out the odd man out of the series 5, 27, 61, 122, 213, 340, 509
☒ (a) 27 (b) 61 (c) 122 (d) 509
8. a_c_ba_ca_cb
(a) abcc (b) acba (c) bcaa (d) bcba
9. In a certain language TWINKLE is written as SVHOJKD, then how would FILTERS be written in the same code?
☒ (a) EHKUDQR (b) ITNFKD (c) KVOHMF (d) TIMFKD
10. If 'MEAT' is written as 'TEAM', then 'BALE' is written as
(a) ELAB (b) EABL (c) EBLA ☒ (d) EALB

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11. Find the missing term of the number series 24, 60, 120, 210, ?
(a) 300 ☒ (b) 336 (c) 420 (d) 525
12. GO = 32, SHE = 49, then SOME will be equal to
☒ (a) 56 (b) 58 (c) 62 (d) 64

13. In a certain Code DECEMBER is written as ERMBCED. Which word will be written as ERMVBENO in that code?
 (a) AUGUST (b) SEPT EMBER (c) OCT OBER (d) ☒ NOVEMBER
14. Find the missing term of the number series 48, 24, 96, 48, 192, ?
 (a) 76 (b) 90 (c) 96 (d) 98

MTP-April, '19

15. Find odd one out of the series 37, 45, 49, 65, 79
 (a) 37 (b) 45 (c) 49 (d) 65
16. Find the missing number of the series 22, 24, 28, ?, 52, 84
 (a) 36 (b) 38 (c) 42 (d) 46
17. Find the missing number of series 1, 5, 13, 25, 41, ?
 (a) 51 (b) 57 (c) 61 (d) 63
18. If SUMMER is coded as RUNNER the code for WINTER will be
 (a) SUITER (b) VIOUER (c) WALKER (d) SUFFER
19. In a certain code KAVERI is written as VAKIRE. How is MYSORE written in that code?
 (a) EROSYM (b) SYMORE (c) SMYERP (d) SYMERO

MTP-Oct '20

20. Find next number in the following series 7, 11, 13, 17, 19, 23, 25, 29?
 (a) 30 (b) 31 (c) 32 (d) 33
21. Find odd man out of the following series 41, 43, 47, 53, 61, 71, 73, 81
 (a) 41 (b) 47 (c) 61 (d) 81
22. If PLAY is coded as 8123 and RHYME is coded as 49367. What will be code of MALE?
 (a) 6217 (b) 6198 (c) 6395 (d) 6285
23. Find the alphabet missing series ac_cab_baca_a_ab
 (a) aabc (b) aacb (c) babb (d) bcbb

MTP-March '21

24. Find the missing term of the series 27, 32, 30, 35, 33, ?
 (a) 28 (b) 31 (c) 36 (d) 38
25. Find out the letter series AZY, EXW, IVU, ?
 (a) MTS (b) MQR (c) NRQ (d) LST
26. Find wrong number of the series 22, 37, 52, 67, 84, 97
 (a) 52 (b) 84 (c) 97 (d) 67
27. If TWENTY is written as 863985 and ELEVEN is written as 323039, then TWELVE can be coded
 (a) 863203 (b) 863302 (c) 863320 (d) 683302

28. If 'LOSE' is coded 1357 and 'GAIN' is coded as 2468 What do the figure 82146 for
 (a) NGLAI (b) NGLIA (c) GNLIA (d) GNLAI
29. If B = 2 and BAG = 10, then BOX = ?
 (a) 36 (b) 39 (c) 41 (d) 52

MTP-March'22

30. The missing term of the series 11, 10 __ 27, 66.5, 198.5
 (a) 14 (b) 16 (c) 21 (d) 19
31. What comes at last place in R, U, X, A, D, ?
 (a) E (b) F (c) G (d) H
32. If Z = 52 and ACT = 48, then BAT will be equal to
 (a) 39 (b) 41 (c) 44 (d) 46
33. If ROSE is coded as 6821, CHAIR is coded as 73456 and PREACH is coded as 961473, what will be the code for SEARCH?
 (a) 246173 (b) 214673 (c) 214763 (d) 216473
34. If E = 5 and READ is coded as 7, then what is the code of 'DEAR' ?
 (a) 6 (b) 7 (c) 8 (d) 9

MTP-Oct'21

35. Find next term of the series 3,10,29,66, 127,?
 (a) 164 (b) 187 (c) 216 (d) 218
36. Find out the wrong number. 10,14,28,32,64,68,132
 (a) 28 (b) 32 (c) 64 (d) 132
37. In a certain code 'SOUTHERN' is written as 'UVPTMQDG'. How is 'MARIGOLD' written in that code?
 (a) JSBCNFKS (b) JSBNHPME (c) JSBNCKNF (d) NBSKCJNF
38. In a certain code 'PRISM' is written as 'OSHTL' and 'RUBLE' is written as 'QVAMD'. How will 'WHORL' be written in that code?
 (a) XISPM (b) VINSK (c) UINSK (d) XGPQM

MTP-Nov'21

39. Find out the next term of the series 4, 25, 121, 289, ____
 (a) 529 (b) 441 (c) 625 (d) None
40. Which number should come next → 7, 13, 13, 14, 19, 15 ?
 (a) 15 (b) 25 (c) 19 (d) None
41. Find out the wrong number. 2,10,18,54,162,486,1458
 (a) 18 (b) 10 (c) 54 (d) 162
42. In a certain code, Delhi is capital is coded as 7 5 9 capital are beautiful c is coded as 3 6 9 c, Delhi is beautiful is coded as 6 7 5 Patna also capital is coded as 9 2 4. What is code for beautiful ?
 (a) 2 (b) 4 (c) 6 (d) 9

43. If 'SYSTEM' is coded as 131625 then 'TERMS' will be coded as ?
(a) 62251 (b) 62451 (c) 64251 (d) 62415

MTP-2 Nov'22

44. Find the missing term of the following series : 3, 15, ?, 63, 99, 143
(a) 27 (b) 35 (c) 45 (d) 56
45. Find the missing term of the following series : 3, 7, 15, ?, 63, 127
(a) 30 (b) 31 (c) 47 (d) 52
46. Find odd man out of the following series 3, 4, 10, 32, 136, 685, 4116
(a) 10 (b) 32 (c) 136 (d) 4116
47. In a certain code language, '253' means 'books are old'; '546' means 'man is old' and '378' means 'buy good books'. What stands for 'are' in that code?
(a) 2 (b) 4 (c) 5 (d) 6

MTP-1 Nov'22

48. Find the missing term in each of the following series : 6, 13, 25, 51, 101?
(a) 201 (b) 202 (c) 203 (d) 205
49. Find the missing term in each of the following series : 28, 33, 31, 36, 34, ?
(a) 48 (b) 39 (c) 54 (d) 62
50. In a certain code, TEACHER is written as VGCEJGT, How is CHILDREN written in that code?
(a) EJKNEGTP (b) EGKNEITP (c) EJKNFGTO (d) EJKNFTGP
51. In a certain code language, '253' means 'books are old'; '546' means 'man is old' and '378' means 'buy good books'. What stands for 'are' in that code?
(a) 2 (b) 4 (c) 5 (d) 6
52. If SUMMER is coded as RUNNER, the code for WINTER will be
(a) SUITER (b) VIOUER (c) WALKER (d) SUFFER

MTP-2 June'22

53. Find missing term of the series 2, 3, 3, 5, 10, 13, ?, 43, 172, 177
(a) 23 (b) 38 (c) 39 (d) 40
54. Find wrong number of the series 1, 5, 5, 9, 7, 11, 11, 15, 12, 17
(a) 11 (b) 12 (c) 17 (d) 15
55. Find missing term of the letter series A, CD, GHI, _____, uvwxy
(a) LMNO (b) MNO (c) MNOP (d) NOPQ
56. In a certain code TELEPHONE is written as ENOHPELET. How is ALIGATOR written in that code?
(a) ROTAGILA (b) ROTAGAIL (c) ROTAGILE (d) ROTEGILA

57.

In a certain Code, 'CLOUD' is written as 'GTRKF'. How is 'SIGHT' written in that code?

(a) UGHHT

(b) UHJFW

(c) WFJGV

(d) WGJHV

ANSWER KEYS

1	(c)	2	(d)	3	(b)	4	(d)
5	(b)	6	(a)	7	(a)	8	(d)
9	(a)	10	(d)	11	(b)	12	(a)
13	(d)	14	(c)	15	(c)	16	(a)
17	(c)	18	(b)	19	(d)	20	(b)
21	(d)	22	(a)	23	(b)	24	(d)
25	(a)	26	(b)	27	(a)	28	(a)
29	(c)	30	(a)	31	(c)	32	(d)
33	(b)	34	(b)	35	(d)	36	(d)
37	(c)	38	(b)	39	(a)	40	(b)
41	(b)	42	(c)	43	(b)	44	(b)
45	(b)	46	(b)	47	(a)	48	(c)
49	(b)	50	(d)	51	(a)	52	(b)
53	(c)	54	(b)	55	(c)	56	(a)
57	(d)						

Chapter-10

Direction Tests

MTP-March '20

1. A man is facing towards East and turns through 45° clockwise again 180° clock wise and then turns through 270° anti-clock wise. In which direction is he facing now?
(a) West (b) North- East (c) South (d) South-West
2. Facing towards North, Ravi walks 35 m. He then turns left and walks 55 m. He again turns left and walks 35 m. How far is from original position and towards which direction.
(a) 30 m, North (b) 20 m, East (c) 55 m, West (d) 20 m, South
3. Ram start moving from a point, facing in East direction. After walking 15 m, he turned to his left and walked 25m, before turning to his right. Then, he walked a distance of 35 m, then turned to his right and stop after walking further a distance of 25 m. Find how far Ram is from his starting point.
(a) 20 m (b) 50 m (c) 15 m (d) 25 m

MTP-October '19

4. A man starts for his office in the North direction, he turns to his left, and then to his right and again to his right. In which direction he will be facing?
(a) North (b) South (c) East (d) North
5. Pramila is going towards East. She turns left, moves on same distance and again turns to her left. After walking some distance, she turns to her right and moves on. In which direction she is going now?
(a) North (b) South (c) North-West (d) West
6. Town D is 12 km towards the North of A. Town C is 15 km towards the West of town D. Town B is 15 km towards the west of town A, how far and which direction is town B from town C ?
(a) 15 Km towards North (b) 12 Km towards North
(c) 3 km towards South (d) 12 km towards South
7. Rajiv walks 10 m South from his house, turns left and walks 25 m, again turns left and walks 40 m, then turns right and walks 5 m to reach the college. In which direction is the college from his house
(a) North (b) South-West (c) North-East (d) East

MTP-March '19

8. Ramu walks 5 Kms starting from his house towards west then turns right and walks 3 km. T hereafter he takes left turn and walks 2 km. Further, he turn left and walks 3 km. Finally, he turns right and walks 3 kms. In what direction he is now from his house.
(a) West (b) North (c) South (d) North
9. A Driver left his village and drove North for 20 Km, after which he stopped for breakfast. T hen he turned left and drove another 30 km, when he stopped for lunch. After some rest, he again turned left and drove 20 kms before stopping for evening tea. Once more he turned left and drove 30 kms to reach the town where he had supper. After evening tea in which direction did he drive?
(a) West (b) East (c) North (d) South

10. A man is facing East, then he turns left and goes 10m then turns right and goes 5 m then goes 5 m to the South and from there 5 m to West. In which direction is he from his original place? [MTP April '19]
- (a) East (b) West (c) North (d) South

MTP April, '19

11. From her home Purna wishes to go to school. From home she goes towards North and then turns left and then turns right, and finally she turns left and reaches school. In which direction her school is situated with respect to her home?
- (a) North-East (b) North-West (c) South-East (d) South-West
12. A child walks 25 feet towards North, turns right and walks 40 feet, turns right again and walks 45 feet. He then turns left and walks 20 feet. He turns left again walks 20 feet. Finally, he turns to his left to walk another 20 feet. In which direction is the child from his starting point?
- (a) North (b) South (c) West (d) East

MTP Oct '20

13. If East is replaced by South-East, then West will be replaced by which of the following directions?
- (a) North-East (b) North (c) East (d) North-West
14. Raju is facing East, he turns 100° in the clockwise direction and 145° in the anti-clockwise direction. Which direction is he facing now?
- (a) West (b) North-East (c) North (d) South-West
15. If a man on motor bike starts from a point and rides 4 km South then turns left and rides 2 km and turns again to the right to ride in which direction is he moving?
- (a) North (b) West (c) South (d) North
16. Hema walks 30 km North. Then, she turns right and walks 30 m then she turns right and walks 55 m. Then she turns left and walks 20 m. Then she again turns left and walks 25 m. How many meters away is she from her original position.
- (a) 45 m (b) 50 m (c) 66 m (d) 55 m

MTP March '21

17. A man stands on a point and starts walking towards north then turns left then turns right and then left in which direction he is moving.
- (a) West (b) North (c) East (d) South
18. One evening before sunset, two friends Ravi and Raj were talking to each other face to face. If Ravi's shadow was exactly to his left side, which direction was Raj facing?
- (a) West (b) East (c) North (d) South
19. If South-West becomes North, then what will be the North-East be?
- (a) North (b) South-East (c) South (d) East

MTP-March'22

20. A boy from his home, first walks 20 m in North-West direction then 20 m in South - West direction. Next, he walks 20m South - East direction. Finally, he turns towards his house. In which direction is he moving?
- (a) North - West (b) North-East (c) South - West (d) South - East

21. Raju leaves his house and walks 12 km towards North. He turns right and walks another 12 km. He turns right, walks 12 km more and turns left to walk 5 km. How far is he from his home and in which direction?
 (a) 7 km east (b) 10 km east (c) 17 km east (d) 24 km east
22. A child goes 50 meter towards South and then turning to his right, he goes 50 meter. Then, turning to his left, he goes 30 meter. Again he turns to his left and goes 50 meter. How far is he from his initial position?
 (a) 30 m (b) 40 m (c) 50 m (d) 80 m

MTP-Oct '21

23. Raju walks northwards. After a while, he turns to his right and a little further to his left. Finally, after walking a distance of one kilometre, he turns to his left again. In which direction is he moving now?
 (a) North (b) South (c) East (d) West
24. Ravi wants to go to the College. He starts from his home, which is in the East and comes to a crossing. The road to the left ends in a theatre, straight ahead is the hospital. In which direction is the College?
 (a) North (b) South (c) East (d) West
25. A man is facing south. He turns 135° in the anticlockwise direction and then 180° in the clockwise direction. Which direction is he facing now?
 (a) North-East (b) North-West (c) South-East (d) South-West
26. Rakesh moves towards South-East a distance of 7 m, then he moves towards West and travels a distance of 14 m. From here he moves towards North-West a distance of 7 m and finally he moves a distance of 4 m towards East and stood at that point. How far is the starting point from where he stood?
 (a) 3 m (b) 4 m (c) 10 m (d) 11 m
27. A and B start moving towards each other from two places 200 m apart. After walked 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?
 (a) 20 m (b) 30 m (c) 40 m (d) 50 m

MTP-Nov'21

28. Kamal starts from point 'O' and moved towards North 2 km, then he turns right and moved 4 km again he turned towards North and walked up to 1 km reached at A. Find the distance between OA.
 (a) 6 (b) 7 (c) 4 (d) 5
29. When a person faces north and walks 25 m right, and he turns left and walks 20 m and again he turns right 25 m and turns right and walks 40 m in which direction is he now from his starting point.
 (a) North-West (b) North-East (c) South-East (d) South-West
30. Sanjay started from his house towards west. After a walking a distance 15 km he turned to the right and walked 10 km, he again turned to the right and walked 5 km. After this he turns left at 135° and covered 10 km in which direction should he is going?
 (a) South (b) South-West (c) South-East (d) North-West
31. Raju Walked from A to B in the east 10 m, then he turns towards right and walked 3 m. Again, he turned to the right and walked 14 m. how far is from is she from point A?
 (a) 4 feet (b) 5 feet (c) 12 feet (d) 13 feet

32. Mamtha moved a distance of 75 m towards north, then she turns to the left and walked to about 25 m, turned left again and walks 80 m. Finally, she turns to the right at angle of 45° . In which direction was she is moving finally?

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

MTP-March'22

33. M is to the East of D, F is to the South of D and K is to the West of F. M is in which direction with respect to K?

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

34. A cyclist goes 30 km to North and then turning right & goes to 40 km. Again he turns to his right and goes 20 km. After this he turns to his right and goes 40 km. How far is the from his starting point?

(a) 0 km. (b) 10 km. (c) 25 km. (d) 40 km.

MTP-2 Nov'22

35. Neha 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?

(a) 7 km (b) 3 km (c) 4 km (d) 12 km

36. Shweta moved a distance of 75 metres towards the north. She then turned to the left and walking for about 25 metres, turned left again and walked 80 metres. Finally, she turned to the right at an angle of 45° . In which direction was she moving finally?

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

37. Varun faces towards north. Turning to his right, he walks 25 metres. He then turns to his left and walks 30 metres. Next, he moves 25 metres to his right. He then turns to his right again and walks 55 metres. Finally he turns to the right and moves 40 metres. In which direction is he now from his starting point?

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

38. Pankaj is facing west. He turns 45° in the clockwise direction and then again another turns with 180° in the same direction i.e. clockwise direction, after that he turns 270° in the anticlockwise direction. Which direction is he facing now ?

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

39. 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?

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

MTP-1 Nov'22

40. From home Neha goes towards North for her college and then she turns left and then turns right, and finally she turns left and reaches college. In which direction her college is situated with respect to her home ?

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

41. Y is in the East of X which is in the North of Z. If P is in the South of Z, then in which direction of Y, is P?

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

42. Five villages P, Q, R, S, and T are situated close to each other. P is to the west of Q, R is to the south of P. T is to the north of Q and S is to the east of T. Then, R is in which direction with respect to S?
 (a) North-West (b) South-East
 (c) South-West (d) Data inadequate
43. If South-West becomes North, then what will North-East be?
 (a) North (b) South-East (c) South (d) East
44. In a clock at 12 : 30, hour needle is in North direction while minute needle is in South direction. In which direction would be minute needle at 12:45?
 (a) North-West (b) South-East (c) West (d) East

MTP-2 June'22

45. Raju starts walking straight towards East. After walking 75 metres, he turns to the left and walks 25 metres straight. Again, he turns to the left, walks a distance of 40 metres straight, again he turns to the left and walks a distance of 25 metres. How far is he from the starting point?
 (a) 25 meters (b) 50 meters (c) 115 meters (d) 35 meters
46. Ravi started from the house towards West. After walking a distance of 30 metres, he turned towards right and walked 20 metres. He then turned left and moving a distance of 10 metres, turned to his left again and walked 40 metres. He now turned to the left and walked 5 metres. Finally, he turned to his left. In which direction was he walking now?
 (a) North (b) South (c) East (d) South-West
47. I am facing South. I turn right and walk 20 meters. Then I turn right again and walk 10 meters. Then I turn left and walk 10 meters and then turning right walk 20 meters. Then I turn right again and walk 60 meters. Which direction am I facing now?
 (a) North (b) North-West (c) East (d) North-East
48. Going 50 m to the south of her house Radhika turns left and goes another 20 m. Then turning to the North, she goes 30 m and then starts walking to her house. In which direction is she walking now?
 (a) North-West (b) North (c) South-East (d) East
49. A man is facing west. He turns 45° in the clockwise direction and then another 180° in the same direction and then 270° in the anticlockwise direction. Which direction is he facing now?
 (a) South (b) North-West (c) West (d) South-West

ANSWER KEYS

1. (b)	2. (c)	3. (b)	4. (c)
5. (a)	6. (d)	7. (c)	8. (a)
9. (b)	10. (c)	11. (b)	12. (d)
13. (d)	14. (b)	15. (c)	16. (b)
17. (a)	18. (c)	19. (c)	20. (b)
21. (c)	22. (d)	23. (d)	24. (a)
25. (d)	26. (c)	27. (c)	28. (d)
29. (c)	30. (d)	31. (b)	32. (b)
33. (c)	34. (b)	35. (c)	36. (b)
37. (a)	38. (c)	39. (d)	40. (c)
41. (d)	42. (c)	43. (c)	44. (c)
45. (d)	46. (a)	47. (d)	48. (a)
49. (d)			



Chapter-11

Seating Arrangements

MTP-March '20

- 1-3 Read the following information carefully and then answer the questions 1, 2 and 3
- Six friends A, B, C, D, E and F are sitting on a bench, facing towards North.
- I. A is sitting next to B.
 - II. C is sitting left to D.
 - III. D is not sitting with E.
 - IV. E is on the left end of the bench.
 - V. C is third position from right.
 - VI. A is on the right side of B and B is to the right side of E.
 - VII. A and C are sitting together.
 - VIII. F is sitting Right of D.

1. At what position A is sitting?
 (a) ☒ Between B and C (b) Between D and C
 (c) Between E and D (d) Between C and E
2. What is position of B?
 (a) ☒ Second from right (b) Centre (c) Extreme left (d) ☒ Second from left
3. What is position of D?
 (a) Extreme from left (b) Extreme right
 (c) Third from left (d) ☒ Second from right.
4. Six Children A, B, C, D, E and F are sitting in a row facing towards North. C is sitting between A and E, D is not at the end. B is sitting immediate right of E, F is not at the right of end, but D is sitting 3rd left of E. Which of the following is immediately right of D.
 (a) A (b) F (c) E (d) C
5. Five Friends are sitting on a bench. A is to the left of B but on the right of C, D is to the right of B but one the left of E. Who are at the extremes?
 (a) A, B (b) A, D (c) C, E (d) B, D

MTP-October '19

6. Four girls are A, B, C and D are sitting around a circle facing the centre. B and C are in front of each other, which of the following is definitely true?
 (a) A and D are in front of each other (b) A is not between B and C
 (c) D is to the left of C (d) A is to the left of C
7. Seven children A, B, C, D, E, F and G are sitting in a row. G is to be right of D and to the left of B. A is on the right of C, A and D have one child between them. E and B have two children between them. Who is exactly in the middle?
 (a) A (b) C (c) D (d) G

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8. Six friends A, B, C, D, E and F are sitting in row facing East. "C" is between 'A' and 'E'. 'B' is just to the right of 'E' but left of D'. 'F' is not right end. How many persons are to the left of E ?
- (a) 1 (b) 2 (c) 3 (d) 4

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9. Six children A, B, C, D, E and F are sitting in a row. B is between F and D. E is between A and C. However, A does not stand next to F or D. C does not stand next to D. F is between which of the following pairs of children?
- (a) B and E (b) B and C (c) B and D (d) B and A [MTP Oct '20]
10. Five students are A, B, C, D and E are standing in a row. D is on the right of E; B is on the left of E but on right of A. D is next to C on his left. The student in middle is
- (a) B (b) A (c) E (d) C

MTP April, 2019

(Q.No.11-13) Study the following information carefully to answer the given questions. 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.

11. Who is sitting in front of R? [MTP March '19]
- (a) U (b) Q (c) V (d) P
12. Who is to the immediate right of R? [MTP March '19]
- (a) M (b) U (c) M or P (d) T
13. In which of the following pairs, persons are sitting in front of each other? [MTP March '19]
- (a) MV (b) RV (c) TV (d) UR
14. In a college party, 5 girls are sitting in a row. F is to the left of M and to the right of O. R is sitting to the right of N but to the left of O. Who is sitting in the middle?
- (a) O (b) R (c) P (d) M
15. Five friends P, Q, R, S and T are sitting in a row facing North: Here, S is between T and Q and Q is to the immediate left of R. P is to the immediate left of T. Who is in the middle?
- (a) S (b) T (c) Q (d) R
16. Five people A, B, C, D and E are seated about a round table. Every chair is spaced equidistant from adjacent chairs.
- I. C is seated next to A
- II. A is seated two seats from D.
- III. B is not seated next to A.
- Which of the following must be true?
- (I) D is seated next to B.

II E is seated next to A.

Select the correct answer from the codes given below:

(a) Only I

(b) Only II

(c) Both I and II

(d) Neither I nor II

MTP March '21

17. Five boys A, B, C, D and E are sitting in a row facing north. A is to the immediate right of B and E is on the immediate left of B but on the right of C and A is on the left of D. Who is second from the left end?
- (a) D (b) A (c) E (d) B

(Q. No 18-19) Read the following information carefully and answer the questions that follow.

Eight friends A, B, C, D, E, F, G and H are sitting in circle facing the center. B is sitting between G and D. H is third to the left of B and second to the right of A. C is sitting between A and G and B and E are not sitting opposite to each other?

18. Who is third to left of D ?
- (a) F (b) E (c) A (d) Cannot be determined.
19. Who is sitting between H and D
- (a) F (b) E (c) A (d) Cannot be determined.

MTP-March '22

Directions (Q 20-22): Study the following information carefully and answer the questions given below.

- I. P, Q, R, S, T, U and V are sitting on a wall and all of them are facing West.
- II. S is on the immediate left of R.
- III. T is at an extreme end and has Q as his neighbor.
- IV. V is between Q and U.
- V. S is sitting third from the north end.
20. Who is sitting to the left of S ?
- (a) Q (b) U (c) T (d) R
21. Which of the following pairs of people are sitting at the extreme ends ?
- (a) QV (b) PR (c) TP (d) ST
22. Five girls are sitting on a bench to be photographed. Seema is to the left of Rani and to the right of Bindu. Mary is to the right of Rani. Reeta is between Rani and Mary. Who is sitting immediate right to Reeta ?
- (a) Bindu (b) Rani (c) Mary (d) Seema
- (Directions 23-24) . Four ladies A, B, C and D and four gentlemen E, F, G and H are sitting in 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
23. Who is immediate neighbor of B ?
- (a) G and H (b) E and F (c) A and B

24. Who is immediate sitting immediately left of A
 (a) F (b) E (c) C (d) D

(25-28) Study the following information carefully to answer the questions given below. P, T, V, R, M, D, K and W are sitting around a circle table facing the centre. V is second to the left of T. T is fourth to the right of M. D and P are not immediate neighbours of T. D is third to the right of P. W is not an immediate neighbour of P. P is to the immediate left of K.

MTP-Oct'21

25. Who is Second to the left of K?
 (a) P (b) R (c) M (d) W
26. Who is the immediate left of V?
 (a) D (b) M (c) W (d) None
27. What is R's Position with respect to V?
 (a) Third to the right (b) Fifth to the right (c) Third to the left (d) Second to the left
28. 8 Persons A, B, C, D, E, F, G and H are sitting in two rows opposite to each other. Each row has four persons. B and C are sitting in front of each other. C is between D and E. H is sitting immediate left of E. H and F are diagonally opposite. G and B are not near to each other. Who is in front of A?
 (a) E (b) D (c) C (d) B
29. A group of seven singers, facing the audience, are standing in a line on the stage as follow.
 (i) D is the right of C.
 (ii) F is stand beside G.
 (iii) B is to the left of F.
 (iv) C and B have one person between them.
 (Vi) A and D have one person between them.
 Who is sitting on the second from extreme right?
 (a) D (b) F (c) G (d) E

MTP-Nov'21

30. Five children are sitting in row. S is sitting next to P but not T. K is sitting next to R, who is sitting on the extreme left and T is not sitting next to K. Who are adjacent to S.
 (a) K+P (b) R+P (c) Only P (d) P and T

(31-33) Directions to solve

- (a) p, Q, R, S, T, U, V and W are sitting round the circle and facing the centre.
 (b) P is second to the right of T who is neighbour of R and V.
 (c) S is not the neighbour of P.
 (d) V is neighbour of U.
 (e) Q is not between S and W. W is not between u and S

31. Who is immediate left of V? (a) P (b) U (c) R (d) T
32. What is the position of R (a) Between P and T (b) Second to the right of S (c) to the immediate right of W (d) inadequate data
33. Which of following are not neighbour (a) UV (b) VT (c) RV (d) PQ

MTP-2 Nov'22

34. A, P, R, X, S and Z are sitting in a row. S and Z are in the centre. A and P are at the ends. R is sitting to the left of A. Who is to the immediate right of P? (a) A (b) X (c) S (d) Z
35. A, B, C, D and E are sitting on a bench. A is sitting next to B, C is sitting next to D, D is not sitting with E who is on the left end of the bench. C is on the second position from the right. A is to the right of B and E. A and C are sitting together. In which position A is sitting? (a) Between B and D (b) Between B and C (c) Between E and D (d) Between C and E
36. There are four children P, Q, R, S sitting in a row. P occupies seat next to Q but not next to R. If R is not sitting next to S? Who is occupying seat next to adjacent to S. (a) Q (b) P (c) P and Q (d) None of these
37. Six persons A,B,C,D,E and F are standing in a circle. B is between D and C. A is between E and C. F is to the right of D. Who is between A and F? (a) B (b) C (c) D (d) E
38. Five persons are standing in a line. One of the two persons at the extreme ends is a professor and the other a businessman. An advocate is standing to the right of a student. An author is to the left of the the advocate is at which place? (a) 1st (b) 2nd (c) 3rd (d) 5th

MTP-1 Nov'22

39. 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

Directions(Questions 30-42) Study the following information carefully and answer the questions given below.
Six friends A, B, C, D, E and F are sitting in a row facing towards North. C is sitting between A and E. D is not at the end. B is sitting at immediate right of E. F is not at the right end but D is sitting at 3rd left of E.

40. How many persons are there to the right of D? (a) One (b) Two (c) Three (d) Four

41. Which of the following is sitting to the left of D?
 (a) F (b) C (c) E (d) A
42. Who is at the immediate left of C?
 (a) A (b) E (c) Either E or A
 (d) Cannot be determined
43. Five persons are sitting on a bench to be photo graphed, S is to the left of N and to the right of B. M is to the right of N. R is between N and M. Who is sitting immediate right to R.
 (a) B (b) N (c) M (d) S

MTP-2 June'22

44. Six students are sitting in row in an examination hall. K is sitting between V and R. V is sitting next to M. M is sitting next to B. B is sitting extreme left and Q is sitting next to R. Who is sitting adjacent to V?
 (a) M and R (b) M and K (c) K and R (d) M and Q

(45-46) Read the following information carefully and answer the questions and answer the questions that follow.

There are 3 females A, B and E and 4 males C, D, F, and G standing in a straight line. No two females are together. B is to right of C, F and D are not together as A is placed between them. G is not near B or E but E

and F are together. D is not to the right of B.

45. Who are in the extreme ends?
 (a) G and B (b) C and F (c) B and D (d) None of these
46. Who is exactly in the middle?
 (a) A (b) F (c) E (d) None of these

Study the following information carefully and answer the given Questions

Seven persons A, B, C, D, E, F and G are sitting in a straight line (not necessarily in the same order) facing North.

- I. Only two persons sit between F and G and G sits second to the left of B.
- II. D sits third to the left of C
- III. E sits exactly between G and B and B sits at the extreme right end of the row.

47. Who amongst the following sits at the extreme left of the line?
 (a) F (b) D (c) C (d) E
48. Who amongst the following sits exactly middle of the line?
 (a) A (b) C (c) E (d) G

ANSWER KEYS

1 (a)	2 (d)	3 (d)	4 (a)
5 (c)	6 (a)	7 (c)	8 (c)
9 (b)	10 (c)	11 (d)	12 (d)
13 (a)	14 (a)	15 (a)	16 (c)
17 (c)	18 (a)	19 (b)	20 (b)
21 (c)	22 (c)	23 (a)	24 (a)
25 (b)	26 (a)	27 (a)	28 (a)
29 (b)	30 (a)	31 (b)	32 (a)
33 (c)	34 (b)	35 (b)	36 (b)
37 (d)	38 (c)	39 (d)	40 (d)
41 (a)	42 (a)	43 (c)	44 (b)
45 (a)	46 (b)	47 (b)	48 (b)

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Chapter-12

Blood Relation

MTP-March '20

- Pointing to a lady, a man said, "The son of her only brother is the brother of my wife". How is lady is related to man?
 (a) Mother's sister (b) Grandmother ☒ (c) Sister of father-in-law (d) Maternal Aunt
- A family has a man, his wife, their four sons and their wives. The family of every son also 3 sons and one daughter. Find out the total number of male members in the whole family?
 (a) 4 (b) 8 (c) 12 ☒ (d) 17
- Given that
 1. A is mother of B. 2. C is son of A. 3. D is brother of E.
 4. E is daughter of B.
 The grandmother of D is
☒ (a) A (b) B (c) C (d) E
- Read the following information and answer the question
 'A+B' means 'A is the daughter of B'.
 'A x B' means 'A is the son of B'.
 'A - B' means 'A is the wife of B'.
 If $P \times Q - S$, which of the following is true
 (a) S is wife of B ☒ (b) S is father of P
 (c) P is daughter of Q (d) Q is father of P

MTP October '19

- C is mother of A and B. If D is husband of B, then what is C to D?
 (a) Mother (b) Aunt ☒ (c) Mother-in-law (d) Sister
- Read the following information carefully to answer the questions that follow.
 I. 'P + Q' means 'P is father of Q'
 II. 'P - Q' means 'P is mother of Q'
 III. 'P x Q' means 'P is brother of Q'
 IV. 'P ÷ Q' means 'P is sister of Q'
 Which of the following means 'M' is maternal uncle of T?
 (a) $M \div K - T$ ☒ (b) $M \times K - T$ (c) $M \times K + T$ (d) $M \div K + T$

7. Pointing a man to photo graph, a man said to a woman, "His mother is the only daughter of your father". How is the woman is related to the man in the photograph?
 (a) Sister (b) Mother (c) Wife (d) Daughter
8. Moni is daughter of Sheela. Sheela is wife of my wife's brother. How Moni is related to my wife?
 (a) Cousin (b) Niece (c) Sister (d) Sister-in-law

MTP-March '19

9. A is B's sister, C is B's mother, D is C's father, E is D's mother, then how is A related D?
 (a) Granddaughter (b) Daughter (c) Aunt (d) Father
10. A, Q, Y and Z are different persons. Z is the father of Q. A is the daughter of Y and Y is the son of Z. If P is the son of Y and B is the brother of P, then
 (a) B and Y are brothers (b) A is sister of B (c) Z is the uncle of B (d) Q and Y are brothers
11. A is father of C and D is son of B. E is brother of A. If C is sister of D how is B related to E?
 (a) Sister-in-Law (b) Sister (c) Brother (d) Brother-in-Law

MTP April, '19

12. X is the husband of Y. W is the daughter of X. Z is husband of W. N is the daughter of Z. What is the relationship of N to Y?
 (a) Cousin (b) Niece (c) Daughter (d) Grand-daughter
13. 'A' reads a book and find the name of the author familiar. The author 'B' is the paternal uncle of 'C'. 'C' is the daughter of 'A'. How is 'B' related to 'A'?
 (a) Brother (b) Sister (c) Father (d) Uncle
14. 'A' s mother is sister of B and she has a daughter C who is 21 years old. How is B related to C?
 (a) Uncle (b) Maternal Uncle (c) Niece (d) Daughter

MTP Oct '20

15. Pointing to a photograph of a boy, Ravi said, "He is son of the only son of my mother". How is Ravi related to that boy ?
 (a) Brother (b) Uncle (c) Cousin (d) Father
16. If $A+B$ means A is brother of B, $A-B$ means A is sister of B, and $A \times B$ means A is the father of B. Which of the following means that C is the son of M?
 (a) $M-N \times C+F$ (b) $F-C+N \times M$ (c) $N+M-F \times C$ (d) $M \times N-C+F$
17. If D is brother of B and B is related C. To answer this question which of the following statements are necessary?
 I. The son of D is the grandson of C.
 II. B is the sister of D.
 (a) Only I (b) Only II (c) Either I or II (d) I and II
18. There are two couple in a family. K has two children. M is wife of O, who is the brother of B. F is daughter K. U is sister of S, who is son of O. T is the son of B, who is the male. How U is related to T?
 (a) Mother (b) Brother (c) Sister (d) Cousin

MTP March '21

19. If A+B means A is the sister of B, A x B means A is the wife of B, A % B means A is the father of B and A - B means A is the brother of B. Which of the following means T is the daughter of P?
- (a) P x Q % R + S - T
(c) P x Q % R + T - S
- (b) ✓ P x Q % R - T + S
(d) P x Q % R - T + S
20. Anil said "This girl is the wife of the grandson of my mother". How is Anil related to the girl?
- (a) Brother
(b) Grandfather
(c) Husband
(d) ✓ Father-in-law
21. 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) ✓ Grandmother
(c) Aunt
(d) Data is inadequate.
22. In a family, there are six members A, B, C, D, E and F. A and B are a married couple, A being the male member. D is the only son of C, who is the brother of A. E is the sister of D. B is the daughter-in-law of F, whose husband has died. How is E related to C ?
- (a) Sister
(b) ✓ Daughter
(c) Cousin
(d) Mother

MTP-March '22

23. D is daughter of E . A is son of D . C is brother of A and B is sister of A . F is brother of D . How F is related to B ?
(a) Father-in -Law (b) Uncle (c) Brother (d) Mother-in-law
24. Introducing a boy a girl said, "He is the son of the daughter of the father of my uncle ". Who is the boy to the girl ?
(a) Brother (b) Nephew (c) Uncle (d) Son-in-law
25. It is given that "A is the mother of B; B is the sister of C; C is the father of D". How is A related to D?
(a) Mother (b) Grandmother (c) Aunt (d) Sister
26. Rita told Mani, "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 Rita's friend ?
(a) Cousin (b) Daughter (c) Niece (d) Aunt
27. Sanjay has three daughters, and each daughter has a brother. How many male members are there in the family?
(a) 4 (b) 2 (c) 3 (d) 1

MTP-Oct '21

28. A is the son of C; C and Q are the sisters; Z is the mother of Q and P is the son of Z. Which of the following statements is true?
- (a) A and P are cousins
(b) C and P are sisters
(c) P is the maternal uncle of A
(d) A is the maternal uncle of P
29. 'X @ Y' means 'X is the mother of Y';
'X \$ Y' means 'X is the husband of Y';
'X # Y' means 'X is the sister of Y'.
'X * Y' means 'X is the son of Y'.
- Which of the following indicates the relationship 'A is daughter of P'?
- (a) P @ B # F * A
(b) P @ B # A * F
(c) A # F * B @ P
(d) A # F * B \$ P

(From Q.30 to Q.33) Read the following information carefully and answer the questions given below?
 There are six children playing football, namely P, Q, R, S, T and U. P and T are brothers, U is sister of T, R is the only son of P's uncle, Q and S are the daughters of the only brother of R's father

30. How many female players are there?
 (a) one (b) two (c) ☒ three (d) Four
31. How is S is related to P
 (a) Uncle (b) ☒ Sister (c) Niece (d) Cousin
32. Pointing towards photograph. Vinod said, "she is the daughter of my wife's mother's only daughter".
 How is Vinod is related to the girl in the Photograph?
 (a) Cousin (b) Uncle (c) ☒ Father (d) None

MTP-Nov '21

33. Pointing to a photograph Lalita says, "He is the son of the only son of my grandfather." How is the man in the photograph related to Lalita?
 (a) ☒ Brother (b) Uncle (c) Cousin (d) Data is inadequate
34. Pointing to a photograph. Ram said, "He is the son of the only daughter of the father of my brother." How is Ram related to the man in the photograph?
 (a) Nephew (b) Brother (c) Father (d) ☒ Maternal Uncle

MTP-2 Nov'22

35. If X is brother of son of Y's son, then how is X related to Y ?
 (a) Brother (b) Cousin (c) ☒ Grandson (d) Son
36. If P is the husband of Q and R is the mother of S and Q. What is R to P?
 (a) Mother (b) Sister (c) Aunt (d) ☒ Mother-in-law
37. B is the brother of A. Whose only sister is mother of C. D is maternal grandmother of C. How is A related to D?
 (a) Aunt (b) Daughter-in-law (c) ☒ Daughter (d) Nephew
38. X and Y are the children of A. A is the father of X but Y is not his son. How is Y related to A?
 (a) Son (b) ☒ Daughter (c) Sister (d) Brother

MTP-1 Nov'22

Directions(Questions 39-41) Read the following information and answer the questions given below.

Anita is the niece of Prateek's mother. Anita's mother is Prateek's aunt. Rohan is Anita's mother's brother.
 Rohan's mother is Anita's grandmother. From this information. deduce the relationship between.

39. Rohan's mother is _____ of Anita's mother.
 (a) Aunt (b) ☒ Mother (c) No relation (d) Sister

40. Prateek's and Anita's mother are _____
 (a) Cousin sister (b) Sister-in-law (c) Friends ~~(d) Sisters~~
41. Rohan is Prateek's _____
 (a) Brother (b) Brother-in-law ~~(c) Uncle~~ (d) Cousin brothers

MTP-2 June'22

42. E is the son of A. D is the son of B. E is married to C. C is B's daughter. How is D related to E?
 (a) Brother (b) Uncle ~~(c) Brother-in-law~~ (d) Husband
43. Pointing towards a girl in the photograph, Pooja said. "She is the mother of Janaki whose father is my son." How is Pooja related to the girl in the photograph?
 (a) Mother (b) Cousin (c) Aunt ~~(d) Mother-in-Law~~
44. There are six children playing football namely A, B, C, D, E and F. A and E are brothers. F is the sister of E. C is the only son of A's uncle. B and D are the daughters of the brother of C's father. How is C related to F?
~~(a) Cousin~~ (b) Brother (c) Son (d) Uncle
45. B is the brother of A whose only sister is mother of C, D is maternal grandmother of C. How is A related to D?
 (a) Aunt (b) Daughter-in-law ~~(c) Daughter~~ (d) Nephew
46. 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×Y means X is the sister of Y, Which of the following shows that A is the maternal uncle of B?
 (a) B+D×C-A (b) B-D%A ~~(c) A-C+D×B~~ (d) A+C×D-B

ANSWER KEYS

- | | | | | |
|--------|--------|--------|--------|--------|
| 1 (c) | 2 (d) | 3 (a) | 4 (b) | 5 (c)] |
| 6 (b) | 7 (b) | 8 (b) | 9 (a) | 10 (b) |
| 11 (a) | 12 (d) | 13 (a) | 14 (b) | 15 (d) |
| 16 (d) | 17 (d) | 18 (d) | 19 (b) | 20 (d) |
| 21 (b) | 22 (b) | 23 (b) | 24 (a) | 25 (b) |
| 26 (a) | 27 (b) | 28 (c) | 29 (d) | 30 (c) |
| 31 (b) | 32 (c) | 33 (a) | 34 (d) | 35 (c) |
| 36 (d) | 37 (c) | 38 (b) | 39 (b) | 40 (d) |
| 41 (c) | 42 (c) | 43 (d) | 44 (a) | 45 (c) |
| 46 (c) | | | | |

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