DIRECTION AND DISTANCE

1. Raj travelled from a point X straight towards east to Y at a distance of 80 metres. He turned right and walked 50 metres, then again turned right and walked 70 metres. Finally, he turned right and walked 50 metres. How far is he from the starting point? **(a) 10 metres** (b) 20 metres (c) 50 metres (d) 70 metres

2. 'Z' started walking straight towards South. He walked a distance of 15 metres and then took a left turn and walked a distance of 30 metres. Then he took a right turn and walked a distance of 15 metres again. Z is facing which direction?

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

3. Kishankant walks 10 km towards North. From there, he walks 6km towards South. Then he walks 3km towards East. How far and in which direction is he with reference to his starting point ?

(a) 5km West **(b) 5km North-East** (c) 7km East (d) 7km West

4. Radha moves towards South-east a distance of 7 km, then she moves towards West and travels a distance of 14 m. From here, she moves towards North-west a distance of 7 m and finally she moves a distance of 4 m towards East and stood at that point. How far is the starting point from where she stood?

(a) 3 m (b) 4 m  **(c) 10 m** (d) 11 m

5. Two buses start from the opposite point of a main road, 150 kms apart. The first bus runs for 25 kms and takes a right turn and then runs for 15 kms. It then turns left and runs for another 25 kms and takes the direction back to reach the main road. In the meantime, due to a minor breakdown, the other bus has run only 35 kms along the main road. What would be the distance between the two buses at this point?

**(a) 65 kms** (b) 75 kms (c) 80 kms (d) 85 kms

6. Sohan started from point X and travelled forward 8 km up to point Y, then turned towards right and travelled 5km up to point Z, then turned right and travelled 7km up to point A and then turned towards right and travelled 5km up to B. What is the distance between points B and X?

**(a) 1 km** (b) 2 km (c) 3 km (d) 4 km

Direction (7 – 9): Read the following information for answering the questions that follows:

In a playground, A, B, C, D, & E are standing as described below facing the North.

(1) B is 50m to the right of D. (2) A is 60m to the South of B.

(3) C is 40m to the west of D. (4) E is 80m to the north of A.

7. If a boy walks from C, meet D followed by B, A and then E, how many meters has he walked if he has travelled the straight distance all through?

(a) 120 (b) 150 (c) 170  **(d) 230**

8. What is the minimum distance (in metre approximately) between C and E?

(a) 53 (b) 78 **(c) 92** (d) 120

9. Who is to the South-East of the person who is to the left of D?

**(a) A** (b) B (c) C (d) E

10. Four aeroplanes of Air Force viz, A, B, C, D, started for a demonstration flight towards east. After flying 50 km planes A and D flew towards right, planes B and C flew towards left. After 50km, planes B and C flew towards their left, planes A and D also towards their left. In which directions are the aeroplanes A, B, D, C respectively flying now?

**(a) East, West, East, West** (b) West, East, West, East

(c) North, South, East, West (d) South, North, West, East

Direction (11 – 12): There are 6 check-posts A, B, C, D, E and F. Check-post F is 15km to the north of D, which is 25 km to the North-East of B. Check post A is 5 km west of E and 15 km to the South-West of C. Check post B, A and E are in a straight line and A is to the east of B. The check post B and E are 30 km apart from each other. 11. If a jeep moves from E to F, via A, B and D, how much distance will it have to cover?

**(a) 70 km** (b) 120 km (c) 100 km (d) 90 km

12. Which check post is to the South-West of D?

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

13. A watch reads 3 : 30 If the minute hand points 'North'. In which direction will the hour hand point?

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

14. A watch reads 9:00. If the minute hand points 'North' then minute hand turned 135° clockwise. Then what is the time shown by the watch and in which direction will the minute hand points?

**(a) South-East, 9:22:5** (b) South, 9:30 (c) West- North, 9 : 10 (d) South-West, 9:40

15. If South-East is called East, South-West is called South and in the same way directions are changing. Then what would we say the North direction?

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

16. On a crossing, there is symbol telling the direction of roads as North, South, East, West. The symbol turned due to an accident. The part which is telling north direction now tells the west direction. If a traveller goes to south direction with the help of turning symbol. Then really, in which direction is he going now?

**(a) West** (b) East (c) North (d) None of there

Direction (17 – 19): Each Question is based on information given below: -

Point 'D' is in west direction from 'A' at the distance of 14m. Point 'B' is in south direction from 'D' also a distance of 4m. Point 'F' is situated 9 m. in south from 'D'. Point E is situated 7m in east from 'B'. Point 'C' is in north from 'E' at the distance of 4m. Point 'G' is in south from 'A' at the distance of 4 m.

17. Which is in the straight direction out of the following?

(a) D, E, A (b) E, G, C (c) D, B, G  **(d) E, G, B**

18. In which direction is 'A' from 'C'?

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

19. Any person from point 'F' starts walking towards north at the distance of 5 m then turns his rightwards then to whom he will reach first out of the following?

(a) G (b) D **(c) E** (d) A

Directions (20 – 23): Study the information’s and answer the question given below:

Eight friends, A, B, C, D, E, F, G and H are sitting in a square dining table. On one side of table, only two friends can sit. All the friends are sitting at equal distance from each other. A is facing south. 'B' and 'F' are sitting opposite side. 'F' is not facing in that direction in which 'A' and 'H' are facing, 'H' is facing west direction. 'D' and 'C' are both sitting at same side. 'C' is facing to the neighbour of 'H'. E is F's neighbour.

20. In which direction is 'G' facing?

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

21. In which direction is 'F' facing?

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

22. In which direction is 'D' facing?

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

23. In which direction is 'B' facing?

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

24. Jai Prakash started walking towards south from the point A, walked 20 m and reached a point B, Again, he turned left and walked 20 m and reached a point C. Now he turned 45° anticlockwise, walked a distance of 20.2 m and reached a point D. What approximately is the shortest distance between the point A and D?

**(a) None of these** b) 30 m (c) 40 m (d) 40.2 m

25. A river flows west to east and on the way turns left and goes in a semi-circle round a hillock, and then turns left at right angles. In which direction is the river finally flowing?

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

26. I am Standing at the centre of a circular field. I go down south to the edge of the field and then turning left I walk along the boundary of the field equal to three-eighths of its length. Then I turn left by 45° and go right across to the opposite point to the boundary. In which direction am I from the starting point?

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

27. Sumi ran a distance of 40m towards the South. She then turned to the right and ran for about 15m, turned right again and ran 50m. Turning to right then ran for 15m. Finally, she turned to the left an angle of 45° and ran. In which direction was she running finally?

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

28. Raj is standing in the middle of a square field. He starts walking diagonally to North-East. Then he turns right and reaches the far end of the field. Then he turns right and starts walking. In the midway he again turns right and starts walking. In halfway, he turns to his left and reaches a new far end. In what direction is Raj now? (a) South-West (b) North (c) South **(d) North-West**

29. One morning after sunrise, Gangadhar was walking facing a pole. The shadow of the pole fell exactly to his right, which direction was he facing?

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

30. A person walks towards his house at 8: 00 am and observed his shadow to his right. In which direction he is walking?

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

31. Four players P, Q, R and S are standing in a play field in such a way that Q is to East of P, R is to

the South of P and S is to the North of P. In which direction of Q is S standing?

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

32. After walking 200 metres, I turned right and covered a distance of 100 metres, then turned left and covered a distance of 300 metres. In the end I am facing towards North. From which direction did I start my journey?

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

33. If North is called North west, West is called South west, South is called South east and so on. A person walks straight from South west to North east and then turns left. Walks straight and again turns left. Now at what direction he is facing?

(a) South (b) North–east (c) North **(d) South–west**

34. At 12.30 the hour hand of a clock faces North and the minute hand faces South. At 2.45 the minute hand will be in which direction?

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

35. If the clock read 6.20 and if the minute hand points North-East, in which direction will the hour

hand point?

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