Chapter-5

Worksheet-1

Answer Key

1. (d) 2. (a) 3. (c) 4. (a) 5. (c)

6. 115° 7. 30° and 60° 8. 45° 9. 75° 10. a = 135° and b = 74°

11. 90° 12. 58° and 122° 13. 30° 14. 16°

15. ∠2 = 75°, ∠3 = 105°, ∠4 = 105° 16. x = 120°, y = 60°, z = 80°

17. x = 60°, y = 80° 18. x = 28° 19. a = 70°, b = 110°, c = 70°, d = 110°

20. x = 50°, y = 50°, z = 130°

Assertion & Reason

1 (a) 2. (b) 3. (a)

Case Study Based Questions

1. i. (a) ii. (c) iii. (d) iv. (b)
2. i. (c) ii. (b) iii. (d) iv. (d)

Worksheet-2

1. (a) 2. (b) 3. (d) 4. (a) 5. (a)

6. ∠BOD = 35°, ∠BOC = 145°, ∠AOD = 145°

7. 55° 8. 100° and 80°

9. 50° and 130° 10. 50°

11. ∠1 = 45°, ∠2 = 135°, ∠3 = 45°, ∠4 = 135°, ∠5 = 45°, ∠7 = 45°, ∠8 = 135°

12. lines l and m are not parallel, because corresponding angles are not equal.

13. x = 145°, y = 145°

14. ∠QPR = 60°, ∠BPR = 50°, ∠PQR = 70°

15. a = 60°, b = 120°, c = 60°, d = 120° e = 60°, f = 60°

16. x = 30°, 130°

17. x = 25°, y = 155°

18. 25° 19. x = 100°, y = 100°, z = 80°

20. 105°

Assertion & Reason

1. (c) 2. (b) 3. (a)

Case Study Based Questions

1. i. (a) ii. (b) iii. (a) iv. (d)
2. i. (c) ii. (b) iii. (a) iv. (d)