## Chapter-1 (Co-ordinate of a point in space)

- 3 Distance between two points (page-6): 1st method, second method
- 4 Division of the join of two points (page-10): Cor.1, Cor.2
- 5 Center of gravity of a triangle and a tetrahedron (page-11): Tetrahedron, example-1, example-2

# **Chapter-2 (Direction-Cosines and Projections)**

- 1 Angle between two non-intersecting (page-16)
- 2 Direction cosines of a line (page-16)
- 3, 4, 5(page-17) 6(page-18) 7(page-19)

Example 1 (a) (page-20)

8(page-21)

Example2 (page-21)

Angle between two lines (page-22) 1st method

Exercise1 (page-25): 1, 2, 5, 8, 10, 11, 12, 16(b), 16(c)

### **Chapter-3 (The Plane)**

8 Intercepts form (page-39)

Ex-1 (page-39)

4 (page-40)

Ex-2 (a) (page-41)

Ex-4 (page-43)

6 (page-44)

Ex-7 (page-45)

7 (page-45) Ex-8(a) (page-45)

4 Planes Perpendicular to Co-ordinate Planes (page-47)

Ex-11 (page-51)

Exercise 4 (page-51): 3, 4, 5(a), 5(b), 6, 7

Some Typical Solved Examples (page-55): Ex-1, Ex-2, Ex-3, Ex-4, Ex-5, Ex-9

13 Combined equation of two planes (page-65)

Exercise6 (page-66): Ex-2, Ex-3

# **Chapter-4 (The Straight Line)**

Exercise 8 (page-74): Ex-1, Ex-3(a), Ex-4, Ex-5, Ex-7

Exercise 11 (page-107): Ex-2, Ex-3, Ex-4

### **Chapter-5 (Shortest Distance)**

b (page-147), Ex-5 (page-149)

## **Chapter-6 (Volume of Tetrahedron)**

Exercise 16 (page-162): Ex-1(a), Ex-1(b), Ex-2

## **Chapter-9 (Sphere)**

2(a) (page-196), 2(d) (page-197)

Ex-2 (page-198), (b) (page-196), (e) (page-199)

Exercise 19 (page-199): Ex-1, Ex-4(a), Ex-4(b), Ex-6, Ex-7)

Exercise 20 (page-209): Ex-1(a), Ex-1(b), Ex-3, Ex-6(a)