UNIT III IMPORTANT MODELS

MULTIPLE INTEGRALS

- 1. Evaluation of double integrals when all the limits are constants.
- 2. Evaluation of double integrals when inner integral is a function of x (y limits are given)
- 3. Evaluation of double integrals when inner integral is a function of y (x limits are given).
- 4. Evaluation of double integrals (when limits are unknown) over a given region.
- 5. Evaluation of doble integrals by changing the order.
- 6. Evaluation of double integrals in polar coordinates.
- 7. Evaluation of double integrals over a region in polar coordinates.
- 8. Evaluation of double integrals by changing cartesian to polar coordinates.
- 9. Finding the area of a region using double integrals.
- 10. Evaluation of triple integrals limit given.
- 11. Evaluation of triple integrals when limit not given.
- 12. Finding volume of solids using cylindrical coordinates.
- 13. Finding the volume of solids using spherical coordinates.
- 14. Definition of double and triple integrals.