KINETIC THEORY OF GASES

- 1. Any five postulates of kinetic theory of gases
- 2.Define mean free path
- 3. Derive expn for the pressure exerted by gases
- 4. Show that mean kinetic energy is proportional to absolute temperature

WAVES

- 1. What is meant by Doppler effect? Derive expn for the apparent frequency.
- 2. Differentiate transverse and longitudinal waves
- 3. Newton's formula and Laplaces correction.
- 4. Explain all factors affecting velocity of sound
- 5. Effect of temperature on velocity of sound.
- 6. Derive expression displacement for a progressive wave.
- 7. Any two characteristics of progressive waves.
- 8. What are nodes and antinodes
- 9. Beats? Define beat frequency.
- 10. Open and closed organ pipes Ratio of frequencies
- 11. Any four characteristics of stationary waves.
- 12. What is meant by interference, progressive wave, stationary waves?