

diode with circuit diagrams and explain its characteristics.

- b) Discuss Melde's experiment for longitudinal and transverse modes of vibration. (05)
- c) Define: i) Lattice and ii) Coordination number. (02)

Q-6

Attempt all questions

(14)

- a) What is a rectifier? Explain a full wave rectifier in detail with the help of a circuit diagram giving its construction, working. (07)
- b) Discuss Stoke's law and derive its formula. (07)
Discuss the measurement of viscosity by Stoke's method.

Q-7

Attempt all questions

(14)

- a) Explain the construction and working of a PNP transistor. (05)
- b) Explain briefly the Common emitter configuration. (09)
Also establish the relation between α and β .

Q-8

Attempt all questions

(14)

- a) Give the difference between continuous and line spectra. (05)
- b) Explain the simple cube, body centered cube and face centered cubic structure with the help of proper diagrams. (09)

