

**B.SC SEM-IV**  
**GENERIC ELECTIVE -4**

**SHORT QUESTION**

- 1) Explain Huygen's principle of wave front.
- 2) Explain division of amplitude and division of wave front.
- 3) Explain superposition of waves and interference of light.
- 4) Explain diffraction of light.
- 5) What is zone plate?

**LONG QUESTION**

- 6) Explain Young's double slit experiment and formation of interference fringes.
- 7) Give the working of Michelson Interferometer and forms of fringes form by the instrument.
- 8) Discuss the diffraction fringes form a single slit.
- 9) Discuss Fresnel's half period zone and explain the rectilinear propagation of light.