CL3_Q1. Differentiate between circular and elliptical polarization states of electromagnetic waves.

CL3_Q2. Find the energy density of electromagnetic wave, if the electric field of amplitude 6.2 V/m oscillates with a frequency of 2.4×10^{10} Hz.

Cl3_Q3. Discuss the energy density in electromagnetic waves and how is it related with the Poynting vectors?

Cl3_Q4. Give expressions for two electric field wave functions that can produce circular polarization.