





**B) Answer the following question. (Any One)****04**

- 1) Write note on total internal reflection.
- 2) The amplitude of electric field in an monochromatic plane wave in free space, incident normally on the plane surface of medium of refractive index 2 is 10v/m. Calculate the amplitude of electric field inside the medium.

**Q.5 Answer the following questions. (Any two)****14**

- a) Discuss the motion of charged particle in a constant, uniform magnetic field.
- b) Explain physical significance (Integral form) of Maxwell's Equations.
- c) Derive an expression for radiation reaction force acting on the radiating dipole.