Paper / Subject Code: 58652 / Engineering Physics - I

- Q6. (a) Explain the effect of doping concentration on fermi level in n-type [5] semiconductor.
 - (b) State de' Broglie hypothesis and derive an expression for de' Broglie [5] wavelength. Mention three properties of matter waves.
 - (c) In Newton's rings experiment the diameter of nth and (n+10)th bright rings are 5.2mm and 8.5mm respectively. Radius of curvature of the lower surface of lens is 200cm. Determine the wavelength of light?