

[4124] - 202
M.Sc. (Sem. - II)
PHYSICS

PHY UTN - 602 : Atoms, Molecules and Solids
(2008 Pattern)

Time : 3 Hours]

[Max. Marks : 80

Instructions to the candidates:

- 1) Question No. 1 is compulsory. Solve any Four questions of the remaining.
- 2) Draw neat diagram wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Use of logarithmic tables and electronic pocket calculator is allowed.

Given

Rest mass of electron	= 9.109×10^{-31} kg
Charge on the electron	= 1.6021×10^{-19} coulomb
Plank's constant	= 6.626×10^{-34} Js
Boltzmann constant	= 1.38054×10^{-23} JK ⁻¹
Avogadro's number	= 6.02252×10^{26} (K mole) ⁻¹
Bohr magneton	= 9.27×10^{-24} amp-m ²
1eV	= 1.6021×10^{-19} J

Q1) Attempt any four of the following :

[16]

- a) Find the minimum magnetic field needed for Zeeman effect to be observed in a spectral line of 400 nm wavelength, when a spectrometer whose resolution is 0.010 nm is used.
- b) For Aluminium $C_v = 6.32 \times 10^3$ m/s and $C_s = 3.1 \times 10^3$ m/s. The density of Aluminium is 2.7×10^3 kg/m³ and atomic weight is 26.97. Calculate the Debye frequency for Aluminium.
- c) The concentration of Schottky defects in an ionic crystal is 1 in 10^{10} at temperature 300 K. Estimate the energy of the vacancy pair.
- d) In NMR of ¹⁴N with $I = 1$, how many spectral lines will be observed? Calculate the frequency required for NMR line at external field 1.4 Tesla ($\gamma_N = 0.403$)
- e) The Zeeman splitting of 500 nm spectral line when magnetic field of 0.4T is applied is observed as 0.016 nm find e/m.
- f) Determine Lande's g factor for $^2f_{5/2}$.

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