

- d) The vibrational frequency for a diatomic molecule HF is  $1.24 \times 10^{14}$  Hz. The mass of hydrogen atom and fluorine atom are  $1.67 \times 10^{-27}$  kg and  $3.15 \times 10^{-26}$  kg respectively. Find force constant 'k' for the inter atomic force.
- e) Find the linear and angular velocity in 1<sup>st</sup> orbit of hydrogen atom.  
 [Given: Diameter of 1<sup>st</sup> Bhor's orbit =  $0.52\text{\AA}$ ,  $\epsilon_0 = 8.85 \times 10^{-12} \text{ C}^2/\text{Nm}^2$ ,  $h = 6.625 \times 10^{-34} \text{ Js}$ ,  $e = 1.6 \times 10^{-19} \text{ C}$ ].
- f) A microwave radiation has a frequency 12GHz. What would be the wavelength and energy of the photon corresponding to this radiation?  
 [Given:  $h = 6.625 \times 10^{-34} \text{ Js}$  and  $1 \text{ GHz} = 10^9 \text{ Hz}$ ]

**Q3) Attempt any FOUR of the following: [16]**

- a) State Biot -Savart's law. Obtain an expression for magnetic field produced in long straight conductor.
- b) Distinguish between paramagnetic and Ferro-magnetic substances.
- c) Using Gauss's theorem, obtain an expression for electric intensity at any point due to a line charge.
- d) Calculate potential due to dipole of dipole moment  $3 \times 10^{-10} \text{ cm}$  at a distance of 2m from it on its own axis.  
 [Give:  $\epsilon_0 = 8.85 \times 10^{-12} \text{ C}^2/\text{Nm}^2$ ]
- e) A bar magnet made of iron has magnetic moment  $3 \text{ A m}^2$  and mass of  $5 \times 10^{-3} \text{ kg}$ , if the density of iron is  $6 \times 10^3 \text{ kg/m}^3$ . Find the intensity of magnetization.
- f) A long solenoid having 200 turns/cm carries a current of 4.00 A. Find the magnetic intensity H and magnetic field B at the centre of solenoid.  
 [Given:  $\mu_0 = 4\pi \times 10^{-7} \text{ Wb/A-m}$ ]

**Q4) Attempt any TWO of the following: [16]**

- a) With neat diagram discuss electromagnetic spectrum.
- b) i) Explain stimulated emission of radiation and how it is responsible for laser action.
- ii) The lowest vibrational states of NaCl molecule are 0.063 eV apart. Find the approximate force constant of this molecule.  
 [Given: mass of Na =  $3.82 \times 10^{-26} \text{ kg}$ , mass of Cl =  $5.81 \times 10^{-26} \text{ kg}$ ]

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