

- d) The vibrational frequency for a diatomic molecule HF is 1.24×10^{14} Hz. The mass of hydrogen atom and fluorine atom are 1.67×10^{-27} kg and 3.15×10^{-26} kg respectively. Find force constant 'k' for the inter atomic force.
- e) Find the linear and angular velocity in 1st orbit of hydrogen atom.
 [Given: Diameter of 1st Bhor's orbit = 0.52\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 $3 \times 10^{-30} \text{ cm}$ 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 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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