

Total No. of Questions :5]

P587

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[5315]-4

F.Y.B.Sc.

PHYSICS-II

**Physics Principles and Applications and Electromagnetics
(2013 Pattern) (Paper - II)**

Time : 3 Hours]

[Max. Marks : 80

Instructions to the candidates:

- 1) *All questions are compulsory.*
- 2) *Figures to the right indicate full marks.*
- 3) *Use of log tables and calculator is allowed.*
- 4) *Neat diagrams must be drawn wherever necessary.*

Q1) Attempt all of the following:

[16]

- a) What is optical pumping?
- b) What is ionic bond. Give example.
- c) What is working principle of RADAR
- d) Find linear velocity in the first orbit of hydrogen atom.
[Given : $\epsilon_0 = 8.85 \times 10^{-12} \text{C}^2/\text{Nm}^2$, $e = 1.6 \times 10^{-19} \text{C}$ $h = 6.625 \times 10^{-34} \text{Js}$]
- e) State principle of superposition in electrostatics.
- f) Define electric polarization vector $\vec{P}$. Give its SI unit.
- g) State Biot-Savarts law.
- h) An ideal solenoid of a aluminium core, have 500turn/ meter and current 2A. Calculate magnetic field intensity.

Q2) Attempt any Four of the following:

[16]

- a) What are the drawback of Rutherford's atomic model.
- b) Explain different types of co-valent bond with different examples.
- c) What are the uses of X-rays.
- d) Calculate the energy in eV of a photon of Red light with a frequency of $4.65 \times 10^{14} \text{Hz}$
[Given : $1 \text{ eV} = 1.6 \times 10^{-19} \text{J}$]
- e) A Co molecule of reduced mass $1.14 \times 10^{-26} \text{kg}$ absorbs infrared radiations of frequency $6.42 \times 10^{13} \text{Hz}$. What is the force constant of the bond in Co-molecule.
- f) The series limit wavelength for Balmer series of hydrogen spectrum is $3645 \text{\AA}$. Calculate the value of Rydberg constant.

P.T.O.

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