

B.Sc. Semester VI (Honours) Examination, 2021 (CBCS)

Subject: Physics

Paper: CC-XIII

Time: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.*

Answer any eight of the following questions (all questions carry equal marks) 5×8=40

1. a) Discuss the non-uniqueness of electromagnetic potentials ( $\vec{A}$  and  $\phi$ ).
- b) Write down equations corresponding to the following statements
  - i) Magnetic monopole does not exist.
  - ii) Electric monopole exists.
  - iii) Total electric charge is conserved.
2. a) Show that the electromagnetic potentials in uniform electric and magnetic field may be expressed as  $\phi = -\vec{E} \cdot \vec{r}$  and  $\vec{A} = \frac{1}{2}(\vec{B} \times \vec{r})$  (with usual meanings of the symbols)
- b) If x and y components of electric field vector of an electromagnetic wave be  $E_x = a_1 \sin \alpha x$  and  $E_y = a_2 \sin(\alpha x + \delta)$ , with usual meanings of the symbols.

Show that for  $\delta = (m + \frac{1}{2})\pi$  where  $m=1,2,3, \dots$ , you get elliptic polarization.

3. a) Show that, for an electromagnetic wave propagating in a conducting medium, the electric and magnetic fields are not in phase and that the energy is not shared equally between the electric and magnetic field.
- b) An electric field in free space is of the form  $\vec{E}(\vec{r}, t) = E_0 \hat{i} \sin^2(z - ct)$ . Can it be an electromagnetic wave?
4. Deduce an expression for the refractive index of a dilute ionized gaseous medium. Hence show that (i) electromagnetic wave of frequency less than plasma frequency cannot propagate through the medium and (ii) plasma frequency  $f_p = 8.98n_e^{\frac{1}{2}}$ , c/s, where  $n_e$  is electron number density. [ $e = 1.6 \times 10^{-19} C$ ,  $m = 9 \times 10^{-31} kg$ ,  $\epsilon_0 = 8.85 \times 10^{-12} Sf$ ]

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**Yijin Wang**



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