

**First/Second Semester B.E. Degree Examination, June/July 2013**  
**Engineering Physics**

Time: 3 hrs.

Max. Marks:100

Note: 1. Answer any FIVE full questions, choosing at least two from each part.

2. Answer all objective type questions only on OMR sheet page 5 of the answer booklet.

3. Answer to objective type questions on sheets other than OMR will not be valued.

4. Physical Constants : Planck's constant,  $h = 6.63 \times 10^{-34}$  Js, Electron charge,  $e = 1.6 \times 10^{-19}$  C  
Electron mass,  $m = 9.11 \times 10^{-31}$  kg, Velocity of light,  $C = 3 \times 10^8$  mS<sup>-1</sup>**PART - A**

1. a. Choose the correct answers for the following : (04 Marks)
- If red and blue stars emits radiations of continuous wavelengths, then according to Wien's displacement law,
    - Blue star is hotter than red star
    - Red star is hotter than blue star
    - Both stars are at same temperature
    - Difficult to conclude.
  - The expression for de-Broglie wavelength for an electron under an accelerating potential V is,
    - $\frac{12.26}{\sqrt{V}}$  m
    - $\frac{12.26}{\sqrt{V}}$  Å
    - $\frac{12.26}{\sqrt{V}}$  nm
    - $\frac{12.26}{\sqrt{V}}$  µm
  - A particle moves with velocity  $3 \times 10^8$  mS<sup>-1</sup>. The wavelength associated with it is 1 nm. Then group velocity of the particle is,
    - $3 \times 10^8$  mS<sup>-1</sup>
    - $3 \times 10^{16}$  mS<sup>-1</sup>
    - $3 \times 10^8$  mS<sup>-1</sup>
    - $1.5 \times 10^8$  mS<sup>-1</sup>
  - According to the Compton effect, the wavelength of X-rays scattered at an angle greater than zero,
    - Decreases
    - Doesn't change
    - Increases
    - None of these
- b. Derive an expression for group velocity on the basis of superposition of waves. Also obtain the relation between group velocity and phase velocity. (08 Marks)
- c. Show that Planck's law reduces to Wien's law and Rayleigh-Jeans law under certain conditions. (05 Marks)
- d. Calculate the de-Broglie wavelength associated with an electron of energy 1.5 eV. (03 Marks)
2. a. Choose the correct answers for the following : (04 Marks)
- The energy of the lowest state in one dimensional potential box of length  $a = 1$  unit is,
    - $\frac{h^2}{8m}$
    - zero
    - $\frac{h^2}{4ma^2}$
    - $\frac{h^2}{2ma^2}$
  - For a particle which is not bound to any system and is free, the energy eigen value is,
    - zero
    - finite but not quantized
    - infinity
    - finite but quantized
  - If the uncertainty in the position of a particle is equal to its de-Broglie wavelength then uncertainty in its momentum will be,
    - $\Delta P \geq \frac{h}{4\pi}$
    - $\Delta P \geq \frac{h}{2\pi}$
    - $\Delta P \geq \frac{P}{4\pi}$
    - $\Delta P \geq \frac{h}{P}$
  - For an electron to be present inside the nucleus of an atom the uncertainty in the position of the electron must be,
    - more than or equal to the radius of the nucleus
    - more than or equal to the diameter of the nucleus.
    - more than the diameter of the nucleus
    - less than or equal to the diameter of the nucleus.

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