

**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)
- i) If red and blue stars emits radiations of continuous wavelengths, then according to Wien's displacement law.  
 A) Blue star is hotter than red star                      B) Red star is hotter than blue star  
 C) Both stars are at same temperature                      D) Difficult to conclude.
- ii) The expression for de-Broglie wavelength for an electron under an accelerating potential V is,  
 A)  $\frac{12.26}{\sqrt{V}}$  m                      B)  $\frac{12.26}{\sqrt{V}}$  A°                      C)  $\frac{12.26}{\sqrt{V}}$  nm                      D)  $\frac{12.26}{\sqrt{V}}$  μm
- iii) 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,  
 A)  $3 \times 10^8$  mS<sup>-1</sup>                      B)  $3 \times 10^{16}$  mS<sup>-1</sup>                      C)  $3 \times 10^8$  mS<sup>-1</sup>                      D)  $1.5 \times 10^8$  mS<sup>-1</sup>
- iv) According to the Compton effect, the wavelength of X-rays scattered at an angle greater than zero,  
 A) Decreases                      B) Doesn't change                      C) Increases                      D) 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)
- i) The energy of the lowest state in one dimensional potential box of length  $a = 1$  unit is,  
 A)  $\frac{h^2}{8m}$                       B) zero                      C)  $\frac{h^2}{4ma^2}$                       D)  $\frac{h^2}{2ma^2}$
- ii) For a particle which is not bound to any system and is free, the energy eigen value is,  
 A) zero                      B) finite but not quantized  
 C) infinity                      D) finite but quantized
- iii) If the uncertainty in the position of a particle is equal to its de-Broglie wavelength then uncertainty in its momentum will be,  
 A)  $\Delta P \geq \frac{h}{4\pi}$                       B)  $\Delta P \geq \frac{h}{2\pi}$                       C)  $\Delta P \geq \frac{P}{4\pi}$                       D)  $\Delta P \geq \frac{h}{P}$
- iv) For an electron to be present inside the nucleus of an atom the uncertainty in the position of the electron must be,  
 A) more than or equal to the radius of the nucleus  
 B) more than or equal to the diameter of the nucleus.  
 C) more than the diameter of the nucleus  
 D) less than or equal to the diameter of the nucleus.



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**SJ Ball**



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