

First/Second Semester B.E. Degree Examination, June/July 2016
Engineering Physics

Time: 3 hrs.

Max. Marks: 80

Note: 1. Answer any FIVE full questions, choosing one full question from each module.
 2. Physical Constants: Planck's constant $h = 6.63 \times 10^{-34}$ JS, Mass of electron $m = 9.11 \times 10^{-31}$ kg, Boltzmann constant $K = 1.38 \times 10^{-23}$ JK⁻¹, Avogadro number $N_A = 6.025 \times 10^{26}$ /K mol, Velocity of light $C = 3 \times 10^8$ ms⁻¹.

Module-1

1.
 - a. Mention the assumptions of Planck's law. Arrive at the relation for Wien's law from Planck's law. (06 Marks)
 - b. State Heisenberg's uncertainty principle. Show that electrons cannot exist inside the nucleus. (06 Marks)
 - c. Calculate the deBroglie wavelength associated with neutron of mass 1.674×10^{-27} kg with one tenth part of the velocity of light. (04 Marks)

OR

2.
 - a. What is phase velocity and group velocity? Show that group velocity is equal to particle velocity. (06 Marks)
 - b. Obtain normalized wave function, with respect to a particle inside an one dimensional potential well. (06 Marks)
 - c. An electron is bound in one dimensional potential well of width 0.18 nm. Find the energy value in eV of the second excited state. (04 Marks)

Module-2

3.
 - a. Explain the failure of classical free electron theory. (06 Marks)
 - b. State law of mass action and derive the expression for electrical conductivity of a semiconductor. (06 Marks)
 - c. A superconducting tin has a critical field of 306 gauss at 0 K and 217 gauss at 2 K. Find the critical temperature of superconducting tin. (04 Marks)

OR

4.
 - a. What is Fermi factor? Discuss the variation of fermifactor with temperature. (06 Marks)
 - b. Write a note on High temperature super conductors. (06 Marks)
 - c. Calculate the mobility of electrons in copper assuming that each atom contribute one free electron for conduction. Resistivity of copper = 1.7×10^{-8} Ωm, atomic weight = 63.54, density = 8.96×10^3 kg/m³. (04 Marks)

Module-3

5.
 - a. Explain the construction and working of semiconductor laser. (06 Marks)
 - b. Discuss the three different types of optical fibres. (06 Marks)
 - c. The ratio of population of two energy levels out of which one corresponds to metastable state is 1.059×10^{-30} . Find the wavelength of light emitted at 330 K. (04 Marks)

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