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First/Second Semester B.E. Degree Examination, Dec.2016/Jan.2017
Engineering Physics

Time: 3 hrs.

Max. Marks: 80

Note: 1. Answer FIVE full questions, choosing one full question from each module.

2. Physical Constants : Velocity of light, $c = 3 \times 10^8 \text{ ms}^{-1}$,

Planck's constant, $h = 6.625 \times 10^{-34} \text{ J.S.}$

Mass of electron, $m_e = 9.1 \times 10^{-31} \text{ kg.}$

Avogadro number, $N_A = 6.02 \times 10^{26} / \text{Kmol.}$

Boltzmann constant, $k = 1.38 \times 10^{-23} \text{ J/K.}$

Charge of an electron, $e = 1.602 \times 10^{-19} \text{ C}$

Module-1

- 1 a. State Planck's radiation law. Show how Planck's law could be reduced to Wien's law and Rayleigh-Jeans law. (07 Marks)
- b. State Heisenberg's uncertainty principle and show that electron does not exist inside the nucleus by this principle. (05 Marks)
- c. Find deBroglie wavelength of a particle of mass $0.58 \text{ MeV}/c^2$ has a kinetic energy 90 eV , where c is velocity of light. (04 Marks)

OR

- 2 a. Using Schrodinger's time independent wave equation obtain eigen values and eigen function for a particle in a one dimensional potential well of infinite height. (07 Marks)
- b. Define phase velocity and group velocity. Show that group velocity is equal to particle velocity. (05 Marks)
- c. The inherent uncertainty in the measurement of time spent by Iridium – 191 nuclei in the excited state is found to be $1.4 \times 10^{-10} \text{ s}$. Estimate the uncertainty that results in its energy in eV in the excited state. (04 Marks)

Module-2

- 3 a. Explain Meissner effect. Write any three differences between Type-I and Type-II superconductors. (07 Marks)
- b. Explain the failure of classical free electron theory. (05 Marks)
- c. For intrinsic Gallium Arsenide, the electric conductivity at room temperature is $10^{-6} \text{ ohm}^{-1} \text{ m}^{-1}$. The electron and hole mobilities are respectively $0.85 \text{ m}^2/\text{V.S}$ and $0.04 \text{ m}^2/\text{V.S}$. Calculate the intrinsic carrier concentration at room temperature. (04 Marks)

OR

- 4 a. State law of mass action. Obtain an expression for electrical conductivity of semiconductors. (07 Marks)
- b. Explain the BCS theory of super conductivity. (05 Marks)
- c. Calculate the probability of finding an electron at an energy level 0.02 eV above Fermi level at 200 K . (04 Marks)

First Year Mechanical Lab Manual

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