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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  $90 \text{ eV}$ , 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  $0.02 \text{ eV}$  above Fermi level at  $200 \text{ K}$ . (04 Marks)

# First Year Mechanical Lab Manual

**M Planty**



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