



**First/Second Semester B.E./B.Tech. Degree Examination, June/July 2023**  
**Physics for CSE Stream**

Max. Marks: 100

- Note:**
1. Answer any FIVE full questions, choosing ONE full question from each module.
  2. VTU Formula Hand Book is permitted.
  3. M : Marks , L: Bloom's level , C: Course outcomes.
  4. Constants : Speed of Light  $C = 3 \times 10^8 \text{ m/s}$ , Boltzmann const.  $K = 1.38 \times 10^{-23} \text{ J/K}$ , Planck's const  $h = 6.625 \times 10^{-34} \text{ JS}$ , Acceleration due to gravity  $g = 9.8 \text{ m/s}^2$ , mass of electron  $m = 9.1 \times 10^{-31} \text{ Kg}$

Module - 1			M	L	C
Q.1	a.	Derive an expression for energy density in terms of Einstein's coefficients in Laser action.	10	L2	CO1
	b.	Explain types of optical fibers.	6	L2	CO1
	c.	The ratio of population inversion of two energy levels is $1.059 \times 10^{-30}$ . Find the wavelength of Light emitted by spontaneous emissions at 330K.	4	L3	CO1
<b>OR</b>					
Q.2	a.	Derive an expression for Numerical aperture in an optical fiber.	8	L2	CO1
	b.	Discuss construction and working of semiconductor diode Laser with energy level diagram.	8	L2	CO1
	c.	The angle of acceptance of an optical fiber is $30^\circ$ , when kept in air. Find the angle of acceptance when it is in a medium of refractive index 1.33.	4	L3	CO1
<b>Module - 2</b>					
Q.3	a.	What is wave packet? Give physical significance and properties of wave function? Define group velocity.	8	L2	CO1
	b.	State and explain Heisenberg's uncertainty principle. Give its physical significance. Show that electron cannot exist inside the nucleus.	8	L2	CO2
	c.	A particle of mass $0.5 \text{ MeV}/c^2$ has kinetic energy 100eV. Find its de Broglie wavelength, where 'C' is the velocity of light.	4	L3	CO2
<b>OR</b>					
Q.4	a.	Derive an expression for Schrödinger's Time independent equation one dimensional form.	8	L2	CO2
	b.	Obtain the expression for energy eigen values using Schrodinger's time independent equation.	8	L2	CO2
	c.	In a measurement of position and velocity of an electron moving with a speed of $6 \times 10^7 \text{ m/s}$ , calculate highest accuracy with which its position could be determined, if the inherent error in the measurement of its velocity is 0.01% for the speed stated.	4	L3	CO2

# F335 Question Paper June 2013

**Ian Pickup**



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