

**First/Second Semester B.E./B.Tech. Degree Examination, Dec.2023/Jan.2024**  
**Applied Physics for CSE Stream**

Time: 3 hrs.

Max. Marks: 100

- Note:* 1. Answer any FIVE full questions, choosing ONE full question from each module.  
 2. Draw neat sketches where ever necessary.  
 3. VTU Formula Hand Book is permitted.  
 4. M : Marks , L: Bloom's level , C: Course outcomes.  
 5. 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  $g = 9.8 \text{ m/s}^{-2}$ ,  
 Permittivity of Free space  $\epsilon_0 = 8.854 \times 10^{-12} \text{ Fm}^{-1}$

Module – 1				M	L	C
Q.1	a.	Define LASER and explain the interaction of radiation with matter for the induced absorption, spontaneous emission and stimulated emission.	7	L1	CO1	
	b.	Discuss different types optical fibers based on modes of propagation and refractive index profile.	9	L2	CO1	
	c.	Find attenuation in an optical fiber of length 500m, when a light signal of power 100mW emerges out of the fiber with a power of 90mW.	4	L3	CO1	
OR						
Q.2	a.	Obtain the expression for energy density of radiation using Einstein's co-efficient A and B and thus conclude $B_{12} = B_{21}$ .	9	L2	CO1	
	b.	Discuss point to point communication using optical fiber.	6	L2	CO1	
	c.	In a diffraction grating experiment the LASER light undergoes second order diffraction for diffraction angle $1.48^\circ$ . The grating constant $d = 5.05 \times 10^{-5} \text{ m}$ and the distance between the grating and source is 0.60m, find the wavelength of LASER light.	5	L3	CO5	
OR						
Q.3	a.	State and explain Heisenberg's uncertainty principle. Using the principle show that electron doesn't exist inside the nucleus.	7	L2	CO2	
	b.	Set up Schrodinger's time independent wave equation in one dimension.	8	L2	CO2	
	c.	A particle of mass $0.5 \text{ MeV}/c^2$ has kinetic energy 100 eV. Find its de-Broglie wavelength where 'C' is the velocity of light.	5	L3	CO2	
OR						
Q.4	a.	Find the Eigen values and Eigen functions for a particle in one dimensional infinite potential well.	9	L2	CO2	
	b.	Discuss de-Broglie hypothesis.	6	L2	CO2	
	c.	Calculate the energy of the first three states for an electron in one dimensional potential well of width 1A°.	5	L3	CO2	

# 1 1 2quiz Texas Physics Sem

**Mark Steyvers**



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