



- Note : 1. Answer any five questions choosing one full question from each unit.  
 2. Physical constant values:  
 Planck's constant  $h = 6.626 \times 10^{-34} \text{ J s}$ , Boltzmann Constant  $k = 1.38 \times 10^{-23} \text{ J/K}$   
 Electron Charge,  $e = 1.602 \times 10^{-19} \text{ C}$ , Mass of electron  $m_e = 9.1 \times 10^{-31} \text{ kg}$   
 Permittivity of vacuum  $\epsilon_0 = 8.854 \times 10^{-12} \text{ Fm}^{-1}$   
 Charge of the electron  $e = 1.6 \times 10^{-19} \text{ C}$ , Velocity of light  $c = 3 \times 10^8 \text{ ms}^{-1}$   
 Avogadro Number  $N_A = 6.023 \times 10^{23} \text{ /kmol}$ , Acceleration due to gravity,  
 $g = 9.8 \text{ ms}^{-2}$

## Unit - I

- 1 a) Define the terms stress and strain. Derive the relation between  $\gamma$  and  $\sigma$  where the symbols have their usual meaning.

BL:	2	CO:	1	PO:	1	PSO:	
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- b) What is a perfectly elastic body? Describe the experimental method to determine the Young's modulus of the material using single cantilever method.

BL:	2	CO:	1	PO:	1	PSO:	
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- c) Calculate the force required to produce an extension of 1mm in steel wire of length 2m, and diameter 1mm. [Young's Modulus for steel  $= 2 \times 10^{11} \text{ N/m}^2$ ]

BL:	3	CO:	5	PO:	2	PSO:	
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## OR

- 2 a) Define Poisson's ratio? Discuss theoretical and practical limits of Poisson's ratio.

BL:	2	CO:	1	PO:	1	PSO:	
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- b) What is torsional Pendulum? Obtain an expression for rigidity modulus of the wire.

BL:	2	CO:	1	PO:	1	PSO:	
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- c) A solid lead sphere of radius 10.3m is subjected to a normal pressure of  $10 \text{ N/m}^2$  acting all over the surface. Determine the change in its volume [Given: Bulk Modulus of lead(K)  $= 4.58 \times 10^{10} \text{ N/m}^2$ ]

BL:		CO:		PO:		PSO:	
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## Unit - II

- 3 a) Explain the construction and working of He-Ne laser with the help of energy level diagram.

BL:	2	CO:	2	PO:	1	PSO:	
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- b) Discuss the different types of optical fibers with suitable diagrams.

BL:	2	CO:	2	PO:	1	PSO:	
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- c) A medium in thermal equilibrium at temperature 300K has two energy levels with a wavelength separation of  $1 \mu\text{m}$ . Find the ratio of population densities of the upper to lower levels.

BL:	3	CO:	5	PO:	2	PSO:	
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## OR

- 4 a) Define numerical aperture, Obtain an expression for the numerical aperture of an optical fiber.

BL:	2	CO:	2	PO:	1	PSO:	
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