



Time: 3 Hours

- 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 $k = 1.38 \times 10^{-23} \text{ JK}^{-1}$
 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 $N_A = 6.023 \times 10^{23} \text{ /mol}$, Acceleration due to gravity, $g = 9.8 \text{ ms}^{-2}$

Unit - I

- 1 a) Define Young's Modulus, Rigidity Modulus and Poisson's ratio. Obtain the relation between them. 10
 b) Describe experimental method to determine the rigidity modulus of the material of wire by setting up torsional pendulum. $\eta = \frac{8\pi R^4 l}{3\pi} \left(\frac{\theta}{T^2}\right) \text{ N/m}^2$ 6
 c) Calculate the torque required to twist a wire of length 1.5m and radius $0.2 \times 10^{-3} \text{ m}$ through an angle $\pi/45$ radians. Given rigidity modulus of the material of wire is $8 \times 10^{10} \text{ N/m}^2$. $\tau = c\theta = \frac{9.36 \times 10^{-6}}{4} \text{ Nm}$
 $= \frac{\pi \eta R^4 \theta}{2 l}$

OR

- 2 a) Define neutral axis. Obtain an expression for the bending moment of a bar with rectangular cross section. Mention any two advantages of I cross section girders. 10
 b) Prove that the value of Poisson's ratio is in between -1 and 0.5. 6
 c) A brass bar of length 1m, thickness 0.1cm and breadth 2cm is clamped horizontally at one end. A weight of 1kg is applied on the other end. What is depression produced? Given Young's modulus of the material is $9.5 \times 10^{10} \text{ N/m}^2$. $\delta = \frac{4mgL^3}{Ybd^3} = 20.6 \text{ m}$ 4

Unit - II

- 3 a) Obtain an expression for energy density of radiation under equilibrium condition in terms of Einstein's coefficients. 10

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