

Bachelor of Science (B.Sc.) Semester—I Examination
PHYSICS (Properties of Matter and Mechanics)
Optional Paper-I

Time : Three Hours]

[Maximum Marks : 50

N.B. :— (1) ALL questions are compulsory.

(2) Draw neat diagrams wherever necessary

Given : $g = 9.8 \text{ m/sec}^2$ Density of water = 10^3 kg/m^3 **EITHER**

1. (A) Define elastic limit. State and explain Hooke's law, show that for a homogeneous isotropic material, $Y = 3K(1 - 2\sigma)$ where symbols used have their usual meaning. 5/5
- (B) (i) Describe an experiment to determine the modulus of rigidity of a material using Maxwell's Needle. 3/2
- (ii) Calculate the modulus of rigidity of the material having $Y = 12 \times 10^{11} \text{ N/m}^2$ and $\sigma = 0.5$. 2

OR

- (C) Obtain an expression for work done in stretching a wire. 2½
- (D) Define Poisson's Ratio. Show that the Poisson's ratio (σ) lies between -1 and 0.5 for a homogeneous isotropic body. 2½
- (E) Describe external and internal bending moment. 2½
- (F) A metal wire of 5m in length and 2mm in diameter is subjected to a tension of 10N. Calculate elongation produced in the wire if Young's modulus of elasticity of metal is $1.5 \times 10^{11} \text{ N/m}^2$. 2½

EITHER

2. (A) What is an ideal fluid ? State and prove Bernoulli's theorem. 5
- (B) (i) Obtain Euler's equation of motion for non-viscous fluid. 3
- (ii) Liquid flows through a horizontal pipe of varying cross-section. At a point where the pressure of water is 0.06 m of mercury, the velocity of flow is 0.5 m/s. Calculate the pressure at another point where velocity of flow is 2.5 m/s. (Density of water = 10^3 kg/m^3). 2

OR

- (C) What is critical velocity ? Derive an expression for critical velocity by using method of dimension. 2½

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