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3 Hours/100 Marks

Seat No. 4 5 9 5 6 0

Instructions :

- (1) All questions are compulsory.
- (2) Answer each next main question on a new page.
- (3) Illustrate your answers with neat sketches wherever necessary.
- (4) Figures to the right indicate full marks.
- (5) Assume suitable data, if necessary.

	MARKS
1. Attempt any ten :	20
a) Define Elasticity and Plasticity.	
b) A bar 500 mm long and 20 mm in dia. is elongated by 1.2 mm under axial pull of 105 KN. Calculate stress, strain and modulus of elasticity of the bar.	
c) What are various types of beam ? Draw neat sketches.	
d) In case of simply supported beam, state the point at which B.M. is maximum when it is carrying full span u.d.l.	
e) State parallel axis theorem of M.I.	
f) What is polar moment of inertia ? What is polar movement of inertia of circular shaft ?	
g) Define section modulus and neutral axis.	
h) Differentiate between single shear and double shear.	
i) What is eccentric loading ?	
j) What is condition for no tension in section ?	
k) Define torque, state its S.I. unit.	
l) How the power of shaft can be calculated ?	
2. Attempt any four :	16
a) Draw a stress-strain curve for mild steel and show the salient points on it.	
b) A brass bar shown in Fig. No. 1 is subjected to a tensile load of 40 KN. Find the total elongation of the bar if $E = 1.0 \times 10^5 \text{ N/mm}^2$ and the maximum stress induced.	

Fig. No. 1

P.T.O.

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