

## PART - B

(5×13=65 Marks)

11. a) i) A hollow steel tube of external diameter 100 mm, is used to carry a compressive load of 456 kN. Find the internal diameter if the permissible stress is  $150 \text{ N/mm}^2$ . (6)
- ii) A 25 mm diameter rod is subjected to an axial load  $P$ , and the strain in the rod is 0.00075. Find the tensile force  $P$ , if  $E = 2 \times 10^5 \text{ N/mm}^2$ . (7)

(OR)

- b) A steel cylinder is enclosed in a copper tube as shown in Fig 11. b. The cylinder and tube are compressed between rigid parallel plates. Find the stresses in the steel and copper and also the compressive strain.  $P = 450 \text{ kN}$ ,  $d = 100 \text{ mm}$  and  $D = 200 \text{ mm}$ . For steel  $E = 210 \text{ kN/mm}^2$  and for copper  $E = 110 \text{ kN/mm}^2$ .

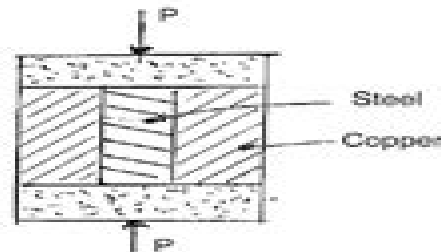
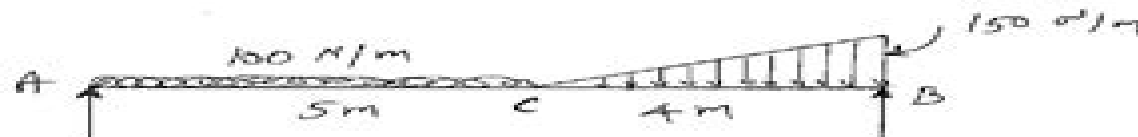


Fig. 11. (b)

12. a) i) Determine the reactions at the supports and draw S.F and B.M diagrams for the simply supported beam shown in Fig. 12. a. i. (8)



12. a (i)

- ii) A timber joist of rectangular section 150 mm wide  $\times$  300 mm deep is freely supported over a span of 4 m and carries a uniformly distributed load  $7.5 \text{ kN/m}$ . Calculate the skin stresses at 0.5 m intervals from the left-hand support. (5)

(OR)

# Mechanical Engineering Materials Question Paper

**Michael Brown**



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