

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**  
**B.Tech II Year II Semester Examinations, May - 2019**  
**MECHANICS OF SOLIDS**  
**(Mining Engineering)**

Time: 3 hours

Max. Marks: 75

Answer any five questions  
 All questions carry equal marks

1. A flat bar of aluminum alloy 24 mm wide and 6 mm thick is placed between two steel bars each 24 mm wide and 9 mm thick to form a composite bar 24 mm  $\times$  24 mm as shown in figure 1. The three bars are fastened together at their ends when the temperature is 10 degrees centigrade. Find the stress in each of the material when the temperature of the whole assembly is raised to 50°C. If at the new temperature, a compressive load of 20kN is applied to the composite bar what are the final stress in steel and aluminum? Take  $E_s = 2 \times 10^5 \text{ N/mm}^2$ ,  $E_a = 2/3 \times 10^5 \text{ N/mm}^2$ ,  $\alpha_s = 1.2 \times 10^{-5} \text{ per } ^\circ\text{C}$  and  $\alpha_a = 2.3 \times 10^{-5} \text{ per } ^\circ\text{C}$ . [15]

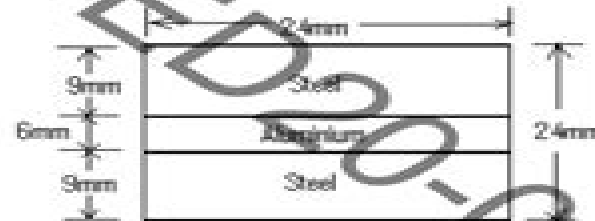


Figure: 1

2. A simply supported beam with overhang on right side carries two point loads at C and E and also a couple at D as shown in Figure 2. Draw S.F.D and B.M.D. [15]

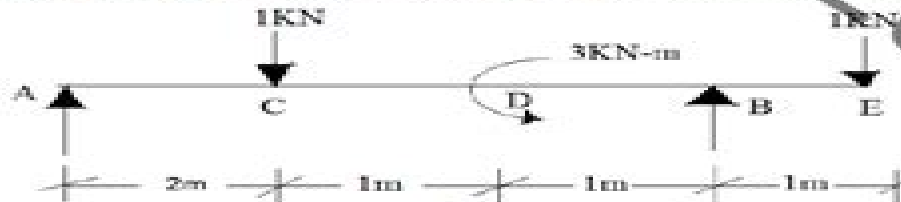


Figure: 2

- 3.a) A simply supported beam of span 5.0m has a cross-section 150mm  $\times$  250mm. If the permissible stress is 10N/mm<sup>2</sup>, find:  
 i) Maximum intensity of uniformly distributed load it can carry.  
 ii) Maximum concentrated load "P" applied at 2.0m from one end it can carry.  
 b) Prove that the bending stress in any fiber is proportional to the distance of that fiber from neutral layer in a beam. [8+7]

# Mechanics Of Solids Old Question Papers

**L Darling-Hammond**



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