



**QUIZ 2**

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No: \_\_\_\_\_

**Problem:** The assembly consists of two rods and a rigid bar BD. AB rod is made of A-36 steel and CD rod is made of Titanium. Each rod has a diameter of 20 mm. If a force of 45 kN is applied to the bar, determine the angle of tilt of the bar.

$E_{A-36} = 200 \text{ GPa}$  ,  $E_{Ti} = 350 \text{ GPa}$

