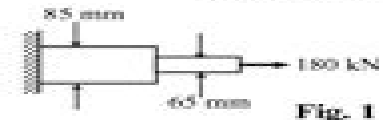


## MECHANICS OF MATERIALS-I

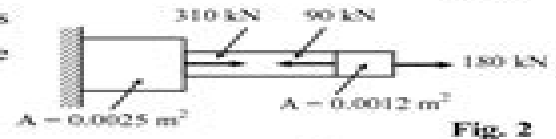
### Problem Sheet No. 1

1. A pipe of mean diameter 25 mm and area of cross-section  $200 \text{ mm}^2$  is subjected to a compressive load of 200 kN. Find the compressive stress in the pipe.  
(Ans: 1 GPa)

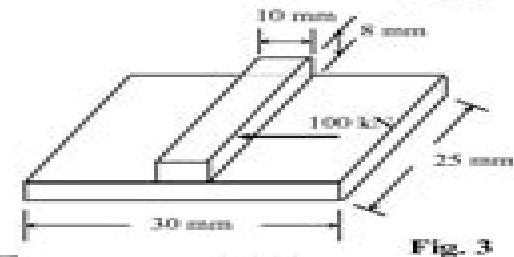
2. A circular bar made up of two different diameter lengths, as shown in Fig. 1, is subjected to a tensile load of 180 kN. Find the tensile stress in each length.  
(Ans: 31.72 MPa, 54.24 MPa)



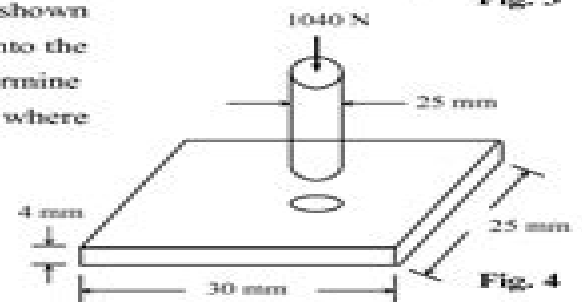
3. A rod of variable cross-section built in at one end is subjected to three axial forces as shown in Fig. 2. Find the maximum normal stress.  
(Ans: 160 MPa, 75 MPa, 150 MPa)



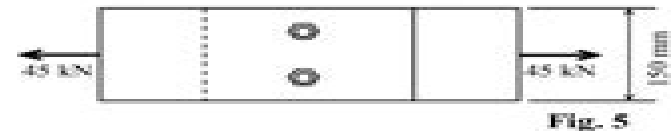
4. A load of 100 kN is applied as shown in Fig. 3. Find the shear stress.  
(Ans: 400 MPa)



5. A circular punch 25 mm diameter is used to punch a hole in a plate 4 mm thick, as shown in Fig. 4. If the load on the punch is 1040 N, find the shear stress induced in the plate.  
(Ans: 3.31 MPa)



6. Two 10 mm thick steel plates are fastened together, as shown in Fig. 5, by means of two 20 mm bolts that fit tightly into the holes. If the joint transmits a tensile force of 45 kN, determine  
(a) the average normal stress in the plates at a section where no holes occur  
(b) the average normal stress at the critical section  
(c) average shear stress in the bolts  
(d) average bearing stress between the bolts and plates.  
(Ans: 30 MPa, 40.9 MPa, 71.62 MPa, 112.5 MPa,)



7. A solid cylinder of diameter ' $d$ ' carries an axial load ' $P$ ', show that the change in its diameter is  $\frac{4P\nu}{\pi E d}$ .

8. A standard steel specimen of 13 mm diameter elongates 0.22 mm in a 200 mm gauge length when it was subjected to a tensile force of 29.5 kN. If the specimen was known to be in the elastic range, what is the modulus of elasticity of the steel?  
(Ans: 202.05 GPa)

# Mechanics Of Materials Questions And Solutions

**DJ Losen**



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