

3. (a) A solid shaft is transmitting 1 mW power at 240 rpm. Determine the diameter of the shaft if the maximum torque transmitted exceeds the mean torque by 20%. Take the maximum allowable shear stress as 60 N/mm^2 . 7
- (b) Find the diameter of a solid steel shaft to transmit 20 kW at 200 r.p.m. the ultimate shear stress for the steel may be taken as 360 N/mm^2 and a factor of safety as 8. If a hollow shaft is to be used in place of solid shaft, find the inside and outside diameters when their ratio is 0.5. 8
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 - (2) Speed of the engine = 100 rpm
 - (3) Permissible shear stress in bolt and shaft = 60 N/mm^2 .
 - (4) Number of bolts used = 8
 - (5) Pitch circle diameter = 1.6 diameter
 - (6) Thickness of flange = $\frac{1}{3}$ dia of shaft.
- Find :
- (i) Diameter of the shaft
 - (ii) Diameter of bolts
 - (iii) Thickness of flange
 - (iv) Diameter of flange

SECTION – III

5. (a) What are the advantages of rope drives ? 4
- (b) Define the following related to gear : 4
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 - (ii) Diametric pitch
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- (b) Explain with neat sketch the shoe brake. 5

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