

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  $60 \text{ N/mm}^2$ . 7
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  - (2) Speed of the engine = 100 rpm
  - (3) Permissible shear stress in bolt and shaft =  $60 \text{ N/mm}^2$ .
  - (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
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