

2. Please define the Reynolds number (3%) and explain its physical meaning. (2%)
3. A journal bearing, as shown, is operated steadily at 3600 rpm (revolution per minute). The lubricant used is SAE 30 that has dynamic viscosity, $\mu = 9.6 \times 10^{-3} (N \cdot \text{sec}/\text{m}^2)$. Find the torque, T , in unit of $N \cdot m$. (15%)

