MECHANICAL ENGINEERING   **MEC602-MACHINE DESIGN**

DEPARTMENT OF MECHANICAL ENGINEERING
B.Tech (6th Semester Examination)

Course: Machine Design-II   Maximum Marks: 10

Assignment 1

Problem A: For a band brake to exert braking toque of 80 Nm to slow down drum from 2rps.Radius of Drum =0.152m, θ =225°, thickness of rim = .05 m.

Q1. Maximum tension produced =   1

                                                                      CO1

Q2. For the data refer Problem A   1
    Maximum tension produced=

                                                                      CO1

Q3. For data refer Problem A   1
    Friction Torque(Tf)=

                                                                      CO2

Q4. For the data refer Problem A   1
    Area=

                                                                      CO1

Q5. For the data refer Problem A   1
    Friction Power(Pf)=

                                                                      CO2

*Total= Score * Weightage(2)