

Roll No.

Total No. of Pages : 01

Total No. of Questions : 08

M.Tech. (Production Engg.) (Sem.-2)

INDUSTRIAL TRIBOLOGY

Subject Code : PE-512

M.Code : 39011

Date of Examination : 11-07-22

Time : 3 Hrs.

Max. Marks : 100

INSTRUCTION TO CANDIDATES :

1. Attempt any FIVE questions out of EIGHT questions.
2. Each question carries TWENTY marks.

1. a) Explain in detail various properties of material in Tribology.
b) Discuss the various types of motion in detail.
2. a) Explain various laws of sliding friction.
b) Discuss friction theories in detail.
3. a) What are the various methods of prevention and control of wear? Explain.
b) Explain the concept of lapping and honing.
4. a) Describe in detail the various types of solid lubricants.
b) What do you mean by hydrostatic and plasto hydrostatic lubrication?
5. Discuss the factors to be considered in design of bearing.
6. Explain the Heate Cote concept of selection of roller bearing.
7. Discuss the application of Solid lubricants in metal forming processes.
8. Discuss the significance of sommer-feld number in bearing lubrication.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.