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Total No. of Questions : 08

Total No. of Pages : 01

M.Tech. (CAD/CAM) (2018 Batch) (Sem.-1)

TRIBOLOGY

Subject Code : ME-502 M.Code : 23506

Time : 3 Hrs. INSTRUCTIONS TO CANDIDATES : Max. Marks : 60

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

Q1 a) What do you mean by elastic and plastic deformation?

b) Discuss flash temperature theory?

- Q2 What is friction? Discuss laws of friction and explain the concept of adhesion?
- Q3 a) What is Lappling and honing?
 - b) Explain the methods for prevention of wear and frictions in machines?
- Q4 a) Explain in detail the squeeze film lubrication?
 - b) Discuss the mechanism of lubrication using suitable diagram?
- Q5 a) What do you mean by clearance in journal bearing and explain is importance?
 - b) What is sommar-field number?
- Q6 What is rolling friction? Discuss various modes of bearing failures?
- Q7 What are solid lubricants and discuss their application in metal forming process?
- Q8 Discuss in detail the Heathe cote concept for selection of roller bearings?

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