

ME-8003(1) (CBGS)
B.E. VIII Semester Examination, June 2020
Choice Based Grading System (CBGS)
Tribology
Time : Three Hours

Maximum Marks : 70

- Note:** i) Attempt any five questions.
ii) All questions carry equal marks.

1. Explain Tribo surface preparation concepts. Give brief overview of Tribology.
2. Explain Hertz contact stresses, residual stresses, surface fatigue, and creep concepts.
3. Discuss Molecular mechanical theory of Friction.
4. How Friction devices are designed? Give an example and explain.
5. Explain different wear mechanisms. How wear is prevented?
6. Write technical regulations of Lubricants. Discuss boundary/ mixed and fluid thin film lubrication.
7. What is Nano Tribology? How it can be applied to automotive applications?
8. Write short note on followings-
 - a) Wear and Chemistry of lubricants
 - b) Specifications of lubricants
 - c) Viscoelastic and plastic behavior of materials
