

National Institute of Technology, Srinagar (J & K)

Assignment No-2

Subject: Tribo-Materials (TMM-103)

Sep., 2020 to Dec., 2020

Unit: II Characterization & Evaluation of Tribo-Materials Date of Submission: 31-10-2020

1. Discuss the properties of any three non-ferrous materials used for tribological applications.
2. List out the different ferrous and composite material for the following applications:
(i) Rolling Element Bearing (ii) Gears
3. Compare PMC, CMC and MMC.
4. Discuss the various properties of Super Alloys and compare it with ferrous and non-ferrous metals specifically mentioned which properties are advantageous for tribological applications.
5. Discuss the various properties of Ceramics and compare it with ferrous and non-ferrous metals specifically mentioned which properties are advantageous for tribological applications.
6. List out some materials and their characteristics for the following application: (i) Clutches and (ii) I C Engine.

*******END*******

- Note:** 1. *Students are advised to submit the assignment online by scanning the handwritten assignment on or before the date of submission at mukund.sharma@nitsri.net*
2. *Please ensure that the Roll No along with name should be written in the front page of Assignment*