

B. Prod.E, 4th Year 2nd Semester Examination 2022

Subject: TRIBOLOGY

Ref No: Ex/PROD/PE/B/T/421A/2022

Marks: 70

Duration: 4 Hours

Group – A

(Answer any **three** questions)

1. a) What is Spectrometric Oil Analytical Procedure (SOAP)? Explain. (10)
b) Elucidate Stribeck Curve. (10)
2. a) Explain the properties of bearing materials. (10)
b) What are the different types of bearing materials? (10)
3. a) What is meant by Hertzian Contact Stress? (10)
b) Justify the importance of studying “TRIBOLOGY”. (10)
4. a) Show the classical Reynolds equation for one-dimensional flow. (20)

Group – B

(Answer any **one** question) (10)

5. a) Importance of Sommerfield Number
b) The system concept
c) The P-V factor
d) Nomenclature of a ball bearing