

Course: MEC421::INDUSTRIAL TRIBOLOGY**Time Allowed: 1.5 hr.****Max. Marks: 50**

1. This paper contains 5 questions divided in three parts.
2. Part A is compulsory.
3. From Part B & C taken together (i.e. question 3 to 5) attempt any 2 questions out of 3.
4. Attempt all parts of the question chosen.
5. The marks assigned to each question are shown at the end of each question.
6. Answer all questions in serial order.

Part A

- Q1.a) Explain peak to valley height roughness and ten point height roughness. [2 Marks]
- b) What are the operational variables in wear regime map? [2 Marks]
- c) What are the fundamental aspects of Tribology? [2 Marks]
- d) What is fluid friction? [2 Marks]
- e) What is the difference between adhesive and abrasive wear? [2 Marks]
- Q2.a) Explain the significance of wear coefficient? [5 Marks]
- b) Explain tribology in terms of physics and write application of tribology in industries? [5 Marks]

Part B

- Q3.) Explain the principle, working, application and 2 limitations of Stylus type profilometer? [15 Marks]
- Q4.) Explain laws of friction briefly? [15 Marks]

Part C

Q5.) A hard steel surf consisting of array of conical asperity of average angle $\alpha=30^\circ$ slides on a shaft lead surf ($H=75 \text{ Mpa}$) under load of 10N. Calculate

- 1) Volume of lead displaced in unit sliding distance.
- 2) Wear coefficient of Pb if $V=10^{-6} \text{ m}^3$ for 1km sliding. [15 Marks]

Industrial Tribology Question Paper

Rosina Ehmann



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