

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 ($H=75$ Mpa) under load of 10N. Calculate

- 1) Volume of lead displaced in unit sliding distance.
- 2) Wear coefficient of Pb if $V=10^{-6}$ m³ for 1km sliding. [15 Marks]

Industrial Tribology Question Paper

Ying-Ying Zheng



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In a digitally-driven world wherever displays reign great and instant connection drowns out the subtleties of language, the profound techniques and emotional subtleties concealed within words frequently move unheard. Yet, set within the pages of **Industrial Tribology Question Paper** a charming fictional value pulsing with raw feelings, lies a fantastic quest waiting to be undertaken. Published by an experienced wordsmith, this charming opus invites visitors on an introspective journey, gently unraveling the veiled truths and profound impact resonating within the very fabric of every word. Within the psychological depths with this emotional evaluation, we will embark upon a honest exploration of the book is primary styles, dissect its interesting writing type, and yield to the strong resonance it evokes serious within the recesses of readers hearts.

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