

## www.FirstRanker.com

www.FirstRanker.com

Rol	l No 1	Total No. of Pages: 01
Tot	al No. of Questions : 08	
	M.Tech.(CAD/CAM) (Sem.–1 TRIBOLOGY Subject Code: ME-502 Paper ID: [E0864]	)
Time: 3 Hrs.		Max. Marks: 100
INS 1. 2.	TRUCTION TO CANDIDATES: Attempt any FIVE questions out of EIGHT questions. Each question carries TWENTY marks.	
1.	a) Explain conforming and non-conforming contacts.	(10)
	b) Discuss the role of wear and friction in tribology.	(10)
2.	Explain in detail the Tabor's model of elastic thermos friction	. (20)
3.	a) What is wear? And discuss its types.	(10)
	b) Write a short note on wear of cutting tools.	(10)
4.	What do you mean by boundary and squeeze film lubrication?	? (20)
5.	a) Discuss the causes of turbulence in oil bearing.	(10)
	b) What do you mean by co-efficient of friction in journal bea	aring? (10)
6.	a) What is reynold's slip?	(5)
	b) Discuss in detail elasto hydrodynamic lubrication.	(15)
7.	Explain the methods for prevention of wear and frictions in m	achines. (20)
8.	What are solid lubricants and discuss their application in meta-	al forming process? (20)

**1** M-23506 (S9)-1033