M. Tech 3rd Semester (ME) CBCS Scheme Examination, November-2023 TRIBOLOGY AND MAINTENANCE (B) ENGINEERING Paper-16MME23C1 [Maximum marks: 100]			
	tempt five questions.	P = 72 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
	mpulsory and one question it.		
· AT	uss the following: who had a given by the local and a given by the loca	os=2×4 Explain the he he he he	
	Opportunistic maintenance		
stroo(c)	e maintenance, objectives	o. (a) Discuss the	
(d)	Classification of bearings		
Or	Unit-Igsib	a neat flow	
01	Explain the Engineering To detail. Also discuss aim of T	ribological treatment.	
in oteya si	classification of maintena's	01. (b) Discuss the	
(b)	Explain the material printluencing friction.	roperties in detail	
3. (a)	Discuss friction measur detail.	ement methods in	
(b) <sup>1</sup>	Discuss adhesion theory drawbacks.	of friction with its	
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## Unit-II

4.	(a)	Explain the sources and effect of wear. discuss abrasive wear in detail.	Also
	(b)	Discuss the Elasto-hydrodynamic lubric principle in detail. Also discuss propertie characteristics of lubricants.	ation s and 10
5.	(a)	What are lubricant additives? Discus features of additives.	a the
	(b)	Explain the procedure for selection of bear with the help of a flow chart.	rings 10
	**	Unit-III	:::
6.	(a)	Discuss the maintenance, objectives and associated with it.	costs
	<b>(b)</b>	Discuss the preventive maintenance in detail a neat flow diagram.	with
7. ti	(a)	Discuss the role of quality and quality circ	
i let Terr	(b)	Discuss the classification of maintenance sy in detail.  Unit-IV	stem
8.	Disc	uss the various NDT techniques in detail.	20
9.	Disc cond	uss ferrography and spectroscopy method ition monitoring.	ls in 20