Mech

PRN:		Course Code :	UME304

Second Year **B. Tech** End Semester Examination Winter 2023

MECHANICAL STANDARDS FOR MEASUREMENT

Day and Date: Tuesday, 05/12/2023 Max Marks: **50**

Time : 10.30 am to 12.30 pm Duration: **02** hrs

Instructions: All questions are compulsory.

			Marks	Bloom's Level	CO
Q.1		**Attempt any two from the following**			
	a)	Explain with a neat sketch construction and working of vernier height gauge	06	2	CO2
	b)	Explain different types of limits with examples	06	2	CO1
	c)	What are the various types of errors occurs during measurement	06	2	C02
Q.2		**Attempt any two from the following**			
	a)	Write a short note on Sine Centre	06	2	C02
	b)	Write a short note on any one type of Mechanical comparator	06	2	C02
	c)	Differentiate between mechanical,optical,Electrical and pneumatic comparator	06	2	C02
Q.3		**Attempt the following**			
	a)	Define Straightness and Flatness and explain briefly how Straightness and Flatness is measured	06	2	C03
	b)	Explain surface roughness terminology with neat sketch	07	2	C03
		OR			
	b)	Write a note on interferometry and its application in checking flatness	07	2	C03
Q.4		**Attempt the following**			
	a)	Write a note on use of CNC machines for co-ordinate measurement	06	2	C03
	b)	Write a note on Different Errors in screw threads	07	2	C03
		OR			
	b)	Explain with a neat sketch principle, construction and working of gear tooth vernier	07	2	C03

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