CBCS SCHEME

USN						
OBIT						

22MIA/MAR332

Third Semester M.Tech. Degree Examination, Dec.2023/Jan.2024 **Non Traditional Machining**

Time: 3 hrs.

Max. Marks: 100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. M: Marks, L: Bloom's level, C: Course outcomes.

		Module -1	M	L	C
Q.1	a.	Explain the need for nontraditional machining process.	10	L2	CO1
	b.	Write in brief note on the selection of non-traditional machining process.	10	L3	CO3
		OR			
Q.2	a.	With an illustration, explain working principle and operations of ultra sonic machining process.	10	L2	CO4
	b.	With an illustration, explain the operations of Abrasive Jet Machining Process.	10	L2	CO4
		Module – 2	•		
Q.3	a.	With an illustration, explain operations of Water Jet Machining Process.	10	L2	CO4
	b.	Mention advantages, limitations and applications of water Jet machining process.	10	L2	CO4
		OR •			
Q.4	a.	Mention advantages, limitations and applications of EDM.	10	L2	CO3
	b.	With an illustration explain relaxation generator and mention its characteristic with respect to voltage and current.	10	L2	CO3
		Module – 3			
Q.5	a.	With an illustration, explain working of ECM.	10	L2	CO2
	b.	Explain the characteristics required on electrolyte in ECM.	10	L2	CO3
· ·		OR			
Q.6	a.	Mention advantage, limitations and applications of ECM.	10	L2	CO3
	b.	With an illustration, explain electro chemical honing process.	10	L2	CO4
	1	Module – 4			
Q.7	a.	Explain step by step process of chemical machining process.	10	L2	CO2
		W			

	b.	With an illustration, explain the operations of Plasma Arc Machining.	10	L2	CO2
		OD	4		l
.	r	OR With an illustration, avalain Flactron Ream Machining Process	10	L2	CO4
Q.8	a.	With an illustration, explain Electron Beam Machining Process.	10	444	004
	b.	Explain electron beam process characteristics.	10	L3	CO3
	D.	Explain election beam process entracteristics.			
	1	Module -5			
Q.9	a.	With an illustration, explain working of Laser Beam Machining Process.	10	L2	CO2
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	b.	Mention the advantages, limitations and applications of LBM.	10	L2	CO3
	<u> </u>	OR			
O 10		With an illustration, explain Ion Beam Machining.	10	L2	CO4
Q.10	a.	With an mustration, explain for Beam Wacming.	10		
	b.	Mention the advantages, limitations and applications of Ion Beam	10	L2	CO3
		machining.			
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