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Third Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025
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.	Enumerate the differences between traditional and non-traditional machining process.	10	L2	CO1
	b.	Sketch and explain the working principle of USM.	10	L2	CO1
OR					
Q.2	a.	Explain the process parameters of ultra sonic machining process.	10	L2	CO1
	b.	List and explain the various need, limitations and applications of NTM process.	10	L3	CO2
Module – 2					
Q.3	a.	Explain the process characteristics, material removal rate and nozzle wear in AJM process.	10	L2	CO2
	b.	With a neat sketch, explain the working principle of AJM.	10	L2	CO3
OR					
Q.4	a.	State and explain applications advantages and disadvantages of ECH.	10	L3	CO3
	b.	Explain briefly process characteristics and process parameters of ECM.	10	L2	CO2
Module – 3					
Q.5	a.	What is CHM? Write short notes on : Maskants and etchants in CHM.	10	L2	CO3
	b.	What are the two elements of CHM? Illustrate the process with an example.	10	L2	CO3
OR					
Q.6	a.	List and explain the applications, advantage and limitations of PAM.	10	L3	CO3
	b.	What is PAM? Sketch and explain any one types of plasma torch.	10	L2	CO3
Module – 4					
Q.7	a.	Explain the pressure flushing, suction flushing and side flushing in EDM.	10	L2	CO4
	b.	With a neat sketch explain the working principle of EDM process. List its limitations.	10	L2	CO4
OR					
Q.8	a.	With a neat sketch explain the working LBM process. list its advantages.	10	L3	CO4
	b.	Mention the advantage, limitations and applications of LBM.	10	L2	CO4
Module – 5					
Q.9	a.	Explain the importance of hybrid machining process.	10	L3	CO4
	b.	With a neat sketch, explain the working of EDG.	10	L2	CO4
OR					
Q.10	a.	State and explain the applications advantage and limitation of EBM process.	10	L2	CO4
	b.	With a neat sketch explain electron beam machining process.	10	L3	CO4