

# CBCS SCHEME

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BMR306A

## Third Semester B.E./B.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.	What are Non – Traditional Machining processes? Explain the classification of NTM process.	12	L2	CO1
	b.	Explain the comparison between Traditional and Non – traditional machining processes.	8	L2	CO2
OR					
Q.2	a.	Sketch and explain the working principle of USM.	10	L2	CO2
	b.	Compare the effects of process parameters of USM and state the applications.	10	L3	CO3
Module – 2					
Q.3	a.	With a neat sketch, explain the working of AJM.	10	L2	CO3
	b.	State the advantages and applications of AJM process.	10	L2	CO2
OR					
Q.4	a.	Illustrate with a neat sketch, the ECM process.	10	L3	CO3
	b.	State and explain applications and advantages of ECG.	10	L2	CO2
Module – 3					
Q.5	a.	What are the two elements of CHM? Illustrate the process with an example.	10	L3	CO3
	b.	Explain the advantages and applications of CHM.	10	L2	CO2
OR					
Q.6	a.	The process parameters govern the performance of PAM. Justify your answer.	10	L3	CO3
	b.	Explain how Plasma Jet is used for other applications. Compare.	10	L3	CO4
Module – 4					
Q.7	a.	With a neat sketch, explain the working principle of EDM process.	10	L2	CO3
	b.	Enumerate the process parameters as EDM process.	10	L3	CO4
OR					
Q.8	a.	With a neat sketch, explain the working of LBM process.	10	L3	CO4

	b.	Explain the applications and limitations of LBM process.	10	L2	CO3
<b>Module – 5</b>					
Q.9	a.	Explain the mechanism of metal removal in EBM process. Compare with EDM process.	10	L3	CO4
	b.	State and explain the applications and limitations of EBM process.	10	L2	CO3
<b>OR</b>					
Q.10	a.	With a neat sketch, explain the working of ECDM.	10	L2	CO3
	b.	Explain the importance of Hybrid Machining process.	10	L2	CO2

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