

IV SEMESTER B. TECH (IP ENGG.) END SEMESTER MAKE UP EXAMINATIONS JUNE 2019

SUBJECT: NON CONVENTIONAL MANUFACTURING TECHNIQUES [MME 2212] REVISED CREDIT SYSTEM

Time: 3 Hours MAX. MARKS: 50

Instructions to Candidates:

- ❖ Answer ALL the questions.
- Missing data may be suitably assumed.

1A.	Sketch and explain the processing technique used to manufacture	04
	a) Bottles	
	b) Containers	
1B.	Derive an expression for material removal in ultrasonic machining.	04
1C.	Explain the need for non-conventional machining process.	02
2A.	With a neat sketch explain electron beam machining.	04
2B.	Sketch and explain laser beam machining.	04
2C.	Sketch and explain wire electric discharge machining.	02
3A.	With a neat sketch explain plasma arc machining.	04
3B.	Explain with sketch ion beam machining.	04
3C.	Write a short note on thermal energy deburring.	02
4A.	Sketch and explain injection molding	04
4B.	Derive an expression for material removal in abrasive water jet machining.	04
4C.	Write a short note on thermo plastics.	02
5A.	What are the advantages, disadvantages and applications of	04
	abrasive water jet machining.	
5B.	Sketch and explain shaped tool electrolytic machining	04
5C	Write a short note on polymerization	02

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