Reg. No.					



IV SEMESTER B. TECH (IP ENGG.) END SEMESTER EXAMINATIONS APRIL 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.

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1 A .	a) Bumbers									
4 D	b) Nesting Pallets	04								
1B.	Derive an expression for horn design in ultrasonic machining	04								
1C.	Differentiate between conventional and non-conventional machining processes.	02								
2A.	With a neat sketch explain electric discharge grinding and electro chemical drilling.									
2B.	Sketch and explain the machining process used for drilling synthetic jewels in the watch industry.									
2C.	Differentiate between injection molding and blow molding.									
3A.	With a neat sketch explain laser beam machining and plasma arc machining.	04								
3B.	Explain thermal energy deburring and chemical machining.									
3C.	Write a short note on elastomers.									
4A.	Sketch and explain transfer Molding and casting.									
4B.	Derive an expression for material removal in abrasive water jet machining.									
4C.	Differentiate between thermo settings and thermo Plastics.									
5A.	What are the advantages, disadvantages and applications of Water Jet Machining?	04								
5B.	Sketch wire electric discharge machining and pulse generators.									
5C.	Write a short note on biodegradable plastics.									

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