Reg. No.			
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I SEMESTER M.TECH. MANUFACTURING ENGINEERING AND TECHNOLOGY (MET)

END SEMESTER EXAMINATIONS, NOV/DEC 2016

SUBJECT: Advanced manufacturing Technology (MME 5125)

REVISED CREDIT SYSTEM (01/12/2016)

Time: 3 Hours MAX. MARKS: 50

Instructions to Candidates:

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

Derive an expression for metal removal in Ultra-sonic Machining for brittle material.	5
	3
List the applications of Abrasive Jet Machining.	2
Derive an equation for charging current, charging voltage, charging duration,	
	5
	2
Derive an expression for Dynamics of Electro chemical Machining	3
Sketch and explain plasma arc machining.	4
Compare ECG with conventional grinding.	3
Explain photo chemical machining in detail.	3
Explain vacuum mould casting with a neat sketch.	4
·	4
Briefly explain Stretch forming and Contour roll forming.	2
What is meant by RP technology? Explain any one type in detail.	4
	3
	3
	material. Briefly explain water jet machining. List the applications of Abrasive Jet Machining. Derive an equation for charging current, charging voltage, charging duration, discharge current, discharge voltage, discharge duration and energy dissipated across the gap in RC-type power generator in EDM. Bring out the differences between EBM and LBM. Derive an expression for Dynamics of Electro chemical Machining. Sketch and explain plasma arc machining. Compare ECG with conventional grinding. Explain photo chemical machining in detail. Explain vacuum mould casting with a neat sketch. Explain Explosive Forming with neat sketches. Briefly explain Stretch forming and Contour roll forming.

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