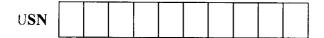
(10 Marks)

(10 Marks)

a.



Second Semester M.Tech. Degree Examination, June/July 2016 **Non Traditional Machining**

Max. Marks:100 Time: 3 hrs.

		Note: Answer any FIVE full questions.	
1	a. b.	Write the classification of Non-traditional machining processes. Explain the need for non-traditional machining parameters in ultrasonic machini with sketches.	~ .
	c.	Discuss the effect of process parameters in ultrasonic machining process with sket	(05 Marks) ches. (10 Marks)
2	a.	Explain the principle and operation of water jet machining process with the he sketch.	elp of neat (10 Marks)
	b.	Discuss the effect of process parameters on Material Removal Rate (MRR) in all machining process with neat sketches.	orasives jet (10 Marks)
3	a.	Explain the principle of the operation and mechanies of material removal Discharge Machining (EDM) with the help of neat sketch.	in Electric (10 Marks)
	b.	List various die electric fluids and explain the properties of die electric fluids used	(07 Marks)
	c.	List the application of the EDM process.	(03 Marks)
4	a.	Derive the relation for determination of the material removal rate in Electro machining (ECM).	(10 Marks)
	b.	Explain the principle of Electro Chemical Grinding (ECG) with a neat sketch.	(10 Marks)
5	a. b.	Explain the principle of operation of chemical blanking with a neat sketch. Write the differences between chemical blanking and chemical milling.	(10 Marks) (05 Marks)
	c.	List the applications of chemical machining process.	(05 Marks)
6	a. b.	Explain the principle of Plasma Arc Machining (PAM) with a neat sketch. Explain the modes of operation of D.C plasma torches.	(10 Marks) (10 Marks)
7	a. b.	Explain Laser Beam Machining (LBM) with a neat sketch. List the types of Lasers.	(10 Marks) (04 Marks)
	c.	Write the advantages and Limitations of LBM.	(06 Marks)

Explain the principle of Magnetic Pulse forming with a neat sketch.

List the applications, advantages and limitations of magnetic pulse forming.