Seat No.:	Enrolment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY

M. E. - SEMESTER – II • EXAMINATION – WINTER • 2014

Subje	ect c	eode: 1720810 Date: 08-12-	2014
•	: 02	Name: Modern Machining Methods :30 pm - 05:00 pm Total Mark	s: 70
111501	1. 2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b)	machining? Classify unconventional machining process?	07 07
Q.2	(a) (b)	machining.	07 07
	(b)	Explain the magneto-strictor transducer and mechanical amplifier used in USM.	07
Q.3	(a) (b)	Explain the ECM system components and application of process. Derive the formula for MRR considering R-C relaxation circuit for EDM. OR	07 07
Q.3	(a) (b)		07 07
Q.4	(a) (b)	What is WEDM process? How it defers from EDM? Enlist its major applications. Explain about Chemical Machining and principle, advantage, disadvantage and application.	07 07
Q.4	(a)	electrolyte properties on accuracy in ECM.	07
Q.4 Q.5	(b) (a)	Explain the process principle of Laser Technology and discuss major	07 07
	(b)	applications of laser. Compare LBM, EBM AND PAM process. OR	07
Q.5	(a) (b)	Discuss the factors affecting quality of cut in PAM. Discuss the EBM process with neat sketch. Also discuss accuracy and surface quality obtained.	07 07

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