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Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI • EXAMINATION - SUMMER • 2014

Subject Code: 163403	Date: 23-05-2014
Subject Name: Advanced Manufacturing Pro Time: 10:30 am - 01:00 pm Instructions: 1. Attempt all questions. 2. Make suitable assumptions wherever necessar 3. Figures to the right indicate full marks.	Total Marks: 70
Q.1 (a) Explain in which areas, the unconventional manufactorized conventional Manufacturing methods. Also state to (b) How the developments in the Mfg. area partly respondenting techniques?	he demerits.
 Q.2 (a) Explain Abrasive Jet Machining process with its p and applications along with neat sketch. (b) Explain the working principle of EDM; also expla OR (b) Compare EDM and ECM Process with respect to i applications. 	in how it is differ from wire cut EDM? (07
Q.3 (a) Explain ECG process with its parameters, features, with neat sketch.(b) Explain the classification of deburring processes. OR	(07
Q.3 (a) With the help of a neat diagram explain the workin(b) What is the basic function of catcher? What proble WJM? Draw the neat figure of different type catch	em do you expect in the absence of during (07
Q.4 (a) Write and explain five important process parameter effects of two of these two variables on MRR.(b) Derive the equation for volumetric material remove USM.	
Q.4 (a) Explain LBM process with its parameters, features with neat sketch. (b) Explain PAM process with its parameters, features with neat sketch.	
 Q.5 (a) Explain the programming of CNC Machining centre (b) What are the different ways of defining circle, usin OR Q.5 (a) Explain the turning centre construction with neat sleet (b) What are the auxiliary statements in APT language 	ng geometry statements of APT language. (07) setch. (07)
four auxiliary commands.	(V)
