Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V • EXAMINATION - SUMMER • 2015

Subject Code: 153404 Subject Name: MOLD ENGINEERING Time: 02.30pm-05.00pm Instructions: Date: 07/05 Total Mark		Code: 153404 Date: 07/05/201	Date: 07/05/2015	
		s: 70		
	1. 2. 3.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a)	Discuss various parts of a two plate mold. Highlight materials used for making each of them.	07	
	(b)	What is the function of Lathe? Discuss in detail operations that can be done on a Lathe Machine.	07	
Q.2	(a)	Discuss various materials used for building a mold. Highlight choice of a particular material.	07	
	(b)	What is Milling? Discuss functions performed by a milling machine. OR	07	
	(b)	What is the difference between Shaping and Planning? Discuss	07	
Q.3	(a) (b)	Discuss various types of EDM used in Toolroom. Define Surface roughness? Discuss various types of polishing tools used in mold building industry.	07 07	
		OR		
Q.3	(a) (b)	Discuss Surface texturing of molds. Discuss various grinding operations with applications.	07 07	
Q.4	(a) (b)	Discuss hobbing process with advantages and disadvantages Discuss about various types of tools used in mold making shop. OR	07 07	
Q.4	(a) (b)	What is Electro deposition? Discuss with applications in detail. Discuss procedure of inspection of molds in detail.	07 07	
Q.5	(a)	Define: Vernier, milling, grinding, chemical texturing, depth gauge, hardness, etching	07	
	(b)	Discuss about cutting fluids and their importance. Also discuss various types giving applications.	07	
0 -	()	OR	0.5	
Q.5	(a) (b)	What is Copy Milling? Discuss in detail. Discuss about various instruments used in inspection of molds.	07 07	
