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GUJARAT TECHNOLOGICAL UNIVERSITY

Diploma Engineering - SEMESTER - III • EXAMINATION - WINTER 2012

U	Subject code: 335501 Date: 02/01		2013	
•		me: Mechanical Technology 0 pm - 05.00 pm	: 70	
	uction	-		
	 Ma Fig 	tempt any five questions. ake suitable assumptions wherever necessary. gures to the right indicate full marks. aglish version is considered to be Authentic.		
Q.1	(a)	List 14 major mechanical machine tools industries in GUJARAT in tabulated form	07	
	(b)	What is chip breaker? Explain function and types of chip breaker with neat sketch.	07	
Q.2	(a) (b)	Compare orthogonal and oblique cutting with neat sketch List different types of drill tool. Explain any TWO with neat sketch OR	07 07	
Q.3	(b)	Explain Whitworth quick return mechanism of shaper with neat sketch.	07	
Q. 0	(a) (b)	Explain working principle of planner with neat sketch. List different milling machine attachment and explain any two in brief	07 07	
Q.3	(a)	OR List different types of grinding machine and explain any one with neat sketch.	07	
	(b)	Explain grinding wheel hardness and grade & its effect in grinding	07	
Q.4	(a) (b)	Explain different steps involved in making a casting Classify core. Explain any five types of cores with neat sketch.	07 07	
Q. 4	(a) (b)	OR Explain advantages and application of metal casting Draw neat sketch of mold and label its parts. List different types of mold	07 07	
Q.5	()			
	(a) (b)	Draw neat sketch of cupola and label its parts Explain fettling and finishing of casting in brief OR	07 07	
Q.5	(a) (b)	List different forging defects and explain any five with neat sketch List different methods of extrusion process and explain any one with neat sketch.	07 07	
