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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

Diploma Engineering - SEMESTER-III • EXAMINATION – WINTER 2013			
Subject Code: 3335502  Subject Name: Mechanical Technology  Time: 02:30 pm - 05:00 pm  Instructions:  1. Attempt all questions. 2. Make suitable assumptions wherever necessary.			Date: 28-11-2013
		70	
	3.	Figures to the right indicate full marks. English version is considered to be Authentic.	
Q.1	(a) (b)	Explain classification of manufacturing process. Compare 3 jaw and 4 jaw chuck with neat sketch.	07 07
Q.2	(a) (b)	List different lathe operation & Explain any five with neat sketch.  Draw single point cutting tool geometry having tool signature 10-20-7-6-8-15-0.8 in A.S.A system.	07 07
	(b)	OR Explain radial drilling machine with neat sketch.	07
Q.3	(a) (b)	Explain different elements of shaper with neat sketch.  List different type of milling cutter and explain any three with neat sketch.  OR	07 07
Q.3	(a) (b)	Draw block diagram of Planner and lable its parts.  Explain different milling method with neat sketch.	07 07
Q.4	(a) (b)	Explain different types of abrasives used in grinding wheel.  Explain different steps involved in making a casting.  OR	07 07
Q. 4	(a) (b)	Explain marking system of grinding wheel in chart form. Explain advantages and application of metal casting.	07 07
Q.5	(a) (b)	Classify the pattern and explain in brief any five with neat sketch.  List different forging operation and explain any five with neat sketch.  OR	07 07
Q.5	(a) (b)	What is core? Explain function and essential characteristics of cores. Explain principle of metal spinning with neat sketch.	07 07

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