Seat No.: Enrol	lment No
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GUJARAT TECHNOLOGICAL UNIVERSITY

DIPLOMA ENGINEERING - SEMESTER -III • EXAMINATION - SUMMER 2014

Su Ti	bject me: 1 tructio 1. A 2. M 3. Fi	Code: 335501 Name: Mechanical Technology 0:30 am – 1:00 pm Total Marks: ons: ttempt any five questions. lake suitable assumptions wherever necessary. igures to the right indicate full marks. ach question carry equal marks (14 marks)	
Q.1	(a) (b)	Explain chips formation and different types of with neat sketch. Draw neat sketch of lathe & write types of lathe	07 07
Q.2	(a) (b)	Compare 3 jaw and 4 jaw chuck with neat sketch Explain offsetting of tail stock method with neat sketch OR	07 07
	(b)	Draw single point cutting tool geometry having tool signature 10-20-7-6-8-15-0.8 in A.S.A system.	07
Q.3	(a) (b)	Explain various safety considerations in lathe. Draw block diagram of radial drilling machine and label its parts. OR	07 07
Q.3	(a) (b)	Explain working principle of shaper with neat sketch. Draw neat sketch of horizontal milling machine and label its parts.	07 07
Q.4	(a) (b)	Explain different milling method with neat sketch Explain marking system of grinding wheel in chart form OR	07 07
Q. 4	(a) (b)	Explain different steps involved in making a casting Explain pattern allowance	07 07
Q.5	(a)	Draw neat sketch of gating system and label its part. Explain function of gating system.	07
	(b)	Explain merits of forging process compared with machining and casting with neat sketch	07
Q.5	(a)	OR Explain spinning process with neat sketch.	07
Q.S	(a) (b)	Compare hot rolling and cold rolling process	07
