C . NT	T 1 . NT
Seat No.:	Enrolment No.

Subject Code:162504

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER - VI EXAMINATION - WINTER 2015

Date:10 /12/ 2015

Sul	bject	Name: Allied Manufacturing Processes	
		:30pm to 5:00pm Total Marks: 70	
Inst	2.	ons: Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	What is Automation? Compare the similarities and differences of Capstan Lathe and Turret Lathe.	07
	(b)	Sketch and Explain Bar Feeding Mechanism. Describe various essential parts of Turret Lathe.	07
Q.2	(a) (b)	List out methods of making threads. Explain Chasing in detail. Sketch and Explain the various elements considered for Screw Thread Inspection.	07 07
		OR	
	(b)	How threads are manufactured by Die-cutting and Tapping?	07
Q.3	(a) (b)	State Gear Finishing Processes. Explain Shot Blasting. What is the purpose of use of Gears? Discuss general applications of Gears. Explain Gear Testing.	07 07
		OR	
Q.3	(a) (b)	Classify Gear Manufacturing Methods. Explain Gear Hobbing Process. What is Gear Shaving? Explain it with neat sketch.	07 07
Q.4	(a) (b)	Compare various methods of processing plastics. State methods of Coating. Explain any one in brief. OR	07 07
Q.4	(a)	Sketch Injection Moulding Process. Why Screw Injection Moulding Machine is better than a Ram type Injection Moulding Machine?	07
	(b)	Define Coating. List Merits, Demerits and Application of Metal Coating Processes.	07
Q.5	(a) (b)	Compare the similarities and differences of ECM and EDM. Write a short note on Electrical Discharge Machining. OR	07 07
Q.5	(a)	Compare the similarities and differences of Plasma Arc Machining and Laser Beam Machining.	07
	(b)	Sketch & Explain Water Jet Machining.	07
