Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE – SEMESTER – V (NEW) EXAMINATION – WINTER 2015

Subject Code: 2152007 **Date:10/12/ 2015**

Subject Name: Manufacturing Technology-I

Time:10:30am to 1:00pm **Total Marks: 70**

Instructions:

1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1	**(a)**	Explain classification of manufacturing process.	**07**
	(b)	Classification of lathe. Explain capstan and turret lathe.	**07**
Q.2	**(a)**	Difference between orthogonal and oblique cutting with figure.	**07**
	(b)	What is working principal of lathe machine with figure? And also construction of lathe Machine.	**07**
		OR	
	(b)	Explain different lathe operations with figure. Write short note of tapers and taper turning.	**07**
Q.3	**(a)**	Classification of Drilling Machine. Explain upright Drilling machine with figure.	**07**
	(b)	Difference between shaper machine and planer machine and slotting machine.	**07**
		OR	
Q.3	**(a)**	Classification of boring machine and Explain vertical boring machine.	**07**
	(b)	Explain working principle of Shaper Machine. Classification of Shaper and Explain it.	**07**
Q.4	**(a)**	Classification of milling Machine and explain any two with figure.	**07**
	(b)	Explain indexing and dividing heads of milling machine.	**07**
		OR	
Q.4	**(a)**	Explain alignment test of milling machine with figure.	**07**
	(b)	Describe different Milling cutters and operations.	**07**
Q.5	**(a)**	Classification of Sawing Machines and Explain it.	**07**
	(b)	Explain of grinding operation with figure.	**07**
		OR	
Q.5	**(a)**	Describe of Grinding Wheel and Workplace interaction with advantage and limitation of grinding machine.	**07**
	(b)	Explain Advantages, limitation and application of broaching machine.	**07**

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