Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER - III EXAMINATION – WINTER 2014

Subject Code: 133404 **Date: 20-12-2014**

Subject Name: Basic Manufacturing Processes

Time:02.30 pm - 05.00 pm **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 the feed mechanism of lathe.	**07**
	(b)	Explain different milling indexing methods.	**07**
Q.2	**(a)**	Write brief descriptions and functions of lathe parts.	**07**
	(b)	Explain apron mechanism of lathe with neat sketch.	**07**
		OR	
	(b)	Explain open and cross belt drive mechanism of planer with neat sketch.	**07**
Q.3	**(a)**	Discuss various shaper operations.	**07**
	(b)	Write about the types of drilling machine.	**07**
		OR	
Q.3	**(a)**	What is the working principle of slotter? Explain.	**07**
	(b)	Write about drilling machine work holding devices.	**07**
Q.4	**(a)**	Explain the milling cutter holding devices with sketches.	**07**
	(b)	Explain milling machine mechanism.	**07**
		OR	
Q.4	**(a)**	Classify the milling cutters.	**07**
	(b)	Write in brief about 7 milling machine operations.	**07**
Q.5	**(a)**	Explain the standard marking system of grinding wheels.	**07**
	(b)	Explain the procedure of grinding wheel mounting.	**07**
		OR	
Q.5	**(a)**	How to select a grinding wheel? Explain.	**07**
	(b)	Discuss about special grinding machines.	**07**

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