Seat No.:	Enrolment No
-----------	--------------

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII • EXAMINATION - WINTER 2013

Date: 03-12-2013

Subject Code: 172506

Subject Name: Flexible Manufacturing Systems			
Time: 10:30 TO 01:00 Total Marks: 70			
Ins	structio 1. 2. 3.	ns: Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b)	Justify the need of FMS in Today's Competitive Environment Explain General Layout, Benefits and Limitation of FMS.	. 07
Q.2	(a) (b)	Explain hierarchy of CIM with respect to CIM technology. Differentiate between Cellular and Flexible Manufacturing OR	07 07
	(b)	Explain Group Technology with suitable illustration.	07
Q.3	(a) (b)	Explain pallet and part loading in Machining Centre. Explain Automated Feature and Capabilities of Turning Centre OR	e. 07
Q.3	(a) (b)	Explain Automated Feature and Capabilities of Machining Ce Compare Horizontal and Vertical Machining Centre.	ntre. 07
Q.4	(a) (b)	Explain Wash Station with its operation description. Explain Co-ordinate Measuring Machine with neat sketch. OR	07 07
Q.4	(a) (b)	Explain Deburring station with its operation description. Explain AGV with its Guide path.	07 07
Q.5	(a) (b)	Explain Basic component and benefits of AS/RS in FMS. Write a short note on Tool Management. OR	07 07
Q.5	(a) (b)	Explain FMS Implementation with neat sketch. Explain Queuing Carrousels and Automatic Work Changer.	07 07
