Enrolment No.	Enroli	nent No	
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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

## ME Semester -III Examination Dec. - 2011

Subject code: 732801 Date: 05/12/2011

**Subject Name: Flexible Manufacturing System** 

Time: 10.30 am – 01.00 pm Total Marks: 70

## **Instructions:**

**Seat No.:** \_\_\_\_\_

1. Attempt all questions.

- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a)	What is part family? Discuss all the methods to make part family.	07
	<b>(b)</b>	Define procedure for part classification and coding.	07
Q.2	(a) (b)	Discuss Product flow analysis. Why cellular manufacturing is advantageous in industry.	07 07
	(b)	OR Elaborate Multi class coding system.	07
Q.3	(a) (b)	Explain concept of VARIANT CAPP. What is forward and backward approach for CAPP OR	
Q.3	(a) (b)	What is Computer aided process planning What is AGV? Discuss advantage and disadvantage of AGV.	07 07
Q.4	(a)	Differentiate Conventional storage system and Automated	07
	(b)	storage system Elaborate types of AGVs OR	07
Q.4	(a) (b)	Which are the components of FMS? Discuss all in depth. Which are the communication standards used for FMS.	07 07
Q.5	(a) (b)	Short note : MAP What is PLC? Write methods for programming in PLC OR	07 07
Q.5	(a) (b)	Kermit protocol in manufacturing Define GENERATIVE CAPP	07 07

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