Seat No.: Enrolment No.
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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

BE - SEMESTER-VIII EXAMINATION – SUMMER 2016 Subject Code:183403 Date:07/05/2016 Subject Name: Modern Manufacturing Practices Time:10:30 AM to 01:00 PM Total Marks: 70			ĺ	
			0	
Iı	<ol> <li>Instructions:</li> <li>Attempt all questions.</li> <li>Make suitable assumptions wherever necessary.</li> <li>Figures to the right indicate full marks.</li> </ol>			
Q.1	(a) (b)	Discuss the principle and concepts of Six Sigma. Where this can be applicable? Explain the Flexible Manufacturing Systems.	07 07	
Q.2	(a) (b)	What do you understand by value added manufacturing? Discuss. Write a short note on Agile Manufacturing.	07 07	
		OR		
	<b>(b)</b>	Explain with example how optimization is useful in engineering design.	07	
Q.3	(a) (b)	Discuss importance of Rapid Prototyping in modern engineering. Write a short note on Just In Time manufacturing system.	07 07	
		OR		
Q.3	(a)	Explain with examples the importance of human resource management in modern manufacturing systems.	07	
	<b>(b)</b>	Difference between Product and Process design.	07	
Q.4	(a) (b)	Explain the Statistical Quality Control in details. Write a short note on Lean Production.	07 07	
		OR		
Q.4	(a) (b)	Discuss Value Stream Mapping in details. Write a short note on Total Productive Maintenance.	07 07	
Q.5	(a)	Explain importance of improvement in organizational structures in modern manufacturing systems.	07	
	<b>(b)</b>	What is the POP system of performance? Discuss.	07	
		OR		
0.5	(a)	Write a short note on Business Excellence	07	

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**(b)** Explain Green and Clean Manufacturing.

**07**