GUJARAT TECHNOLOGICAL UNIVERSITY

GUJARAT TECHNOLOGICAL UNIVERSITY			
BE - SEMESTER-VIII (old) - EXAMINATION - SUMMER 2017			. –
Subject Code:183403 Date:02/05/2017			17
Subject Name: Modern Manufacturing Practices			
Time:10:30 AM to 01:00 PM Total Marl		70	
Instructions:			
 Attempt all questions. Make suitable assumptions wherever necessary. 			
		3. Figures to the right indicate full marks.	
Q.1	(a) (b)	Explain with example how optimization is useful in engineering design. Discuss importance of Rapid Prototyping in modern engineering.	07 07
Q.2	(a) (b)	Explain the POKA-YOKE method with neat sketch. Discuss the principle and concepts of Six Sigma. Where this can be applicable? OR	07 07
	(b)	Discuss 'Value added manufacturing'.	07
Q.3	(a) (b)	Explain the Flexible Manufacturing Systems.	07
	(b)	Write short note on 5-S techniques. OR	07
Q.3	(a)	Explain the techniques of removing root causes of problems involved in	07
C		modern manufacturing.	
	(b)	Write a short note on Agile Manufacturing.	07
Q.4	(a) (b)	Explain JIT technique with an example. Explain about 'Green manufacturing' in present scenario with suitable	07 07
	(0)	examples.	07
		OR	
Q.4	(a) (b)	Difference between Product and Process design. Explain the Statistical Quality Control in details.	07 07
0.5		What is the POP system of performance? Discuss.	07
Q.5	(a) (b)	Discuss about Total productive maintenance in detail.	07 07
		OR	.,
Q.5	(a)	Discuss about 'Clean manufacturing' in detail with suitable examples.	07
	(b)	What are the motivations and rewards in the age of continuous improvement with respect to modern manufacturing?	07
