

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER- VIII (New) EXAMINATION – WINTER 2019****Subject Code: 2182502****Date: 29/11/2019****Subject Name: Recent Advances in Manufacturing****Time: 02:30 PM TO 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.

		MARKS
Q.1	(a) Define Maintenance.	03
	(b) List advantages of Total Productive Maintenance.	04
	(c) Describe implementation aspect of TPM.	07
Q.2	(a) Define supply chain.	03
	(b) List characteristics of flexible supply chain.	04
	(c) Sketch different types of supply chains.	07
OR		
Q.3	(c) List advantages of zero inventories.	07
	(a) What is SMED?	03
	(b) Explain internal and external activity with regard to SMED.	04
	(c) SMED is a part of TPS- Justify.	07
OR		
Q.3	(a) What is TPS?	03
	(b) Explain 2 components of TPS.	04
	(c) Kanban is a part of TPS- Justify.	07
Q.4	(a) What is role of ERP for manufacturing function of industry?	03
	(b) Explain software and hardware requirement with regard to ERP.	04
	(c) Explain identification and development of information and its system.	07
OR		
Q.4	(a) What is role of ERP for purchase function of industry?	03
	(b) Explain the importance of ERP for productivity improvement.	04
	(c) Explain importance of information flow in ERP.	07
Q.5	(a) Define value analysis.	03
	(b) What are the objectives for doing value analysis?	04
	(c) Explain the steps involved in value analysis.	07
OR		
Q.5	(a) Define value engineering.	03
	(b) What are the objectives for doing value engineering?	04
	(c) Explain the steps involved in value engineering.	07
