

GUJARAT TECHNOLOGICAL UNIVERSITY**BE- SEMESTER-VIII (NEW) EXAMINATION – WINTER 2020****Subject Code:2182502****Date:28/01/2021****Subject Name:Recent Advances in Manufacturing****Time:02:00 PM TO 04:00 PM****Total Marks: 56****Instructions:**

1. Attempt any FOUR questions out of EIGHT questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

		MARKS
Q.1	(a) Enlist different cost elements of ERP system.	03
	(b) Discuss about requirements of various hardware and software for successfully implementation of ERP.	04
	(c) What is SMED? Write a detail note on SMED.	07
Q.2	(a) What is decision making information system?	03
	(b) Discuss the role of MIS.	04
	(c) Explain information flow network. Discuss design and development of information flow network for recent MIS system.	07
Q.3	(a) Discuss concept of value analysis.	03
	(b) Discuss contribution of supply chain in industrial development.	04
	(c) When to apply for value analysis? Discuss various stages of value analysis.	07
Q.4	(a) Give characteristics of POKA-YOKE tools.	03
	(b) How measurement of information value carried out in ERP?	04
	(c) Define ERP. Discuss different ERP modules and explain procedure used in industries for implementation of ERP system.	07
Q.5	(a) Differentiate value analysis and value engineering.	03
	(b) Explain JIDOKA tools.	04
	(c) Write a detail note on KAIZEN philosophy.	07
Q.6	(a) Discuss the concept of zero inventories in supply chain.	03
	(b) Explain optimization of transport network in supply chain.	04
	(c) Discuss procedure to be followed for implementation of JIT.	07
Q.7	(a) Enlist briefly different models of supply chain.	03
	(b) What you mean by 5S? Discuss objective of 5S.	04
	(c) Write a note on E-manufacturing and E-commerce.	07
Q.8	(a) Discuss importance of kanban system in industries.	03
	(b) Explain POKAYOKE technique with its tools.	04
	(c) Write a note on role of ERP in productivity improvements.	07
