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GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER–VIII (NEW) EXAMINATION – WINTER 2018

Subject Code: 2182502   **Date: 29/11/2018**

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)	Explain concept of value analysis.	03
	(b)	Define value analysis and value engineering.	04
	(c)	Discuss Japanese approach for productivity improvements. Discuss role of SMED in manufacturing improvements.	07
Q.2	(a)	Draw ERP architecture.	03
	(b)	Give advantages of value analysis.	04
	(c)	Differentiate value analysis and value engineering. When to apply value analysis?	07
		OR	
	(c)	Write a detailed note on E-manufacturing and E-commerce.	07
Q.3	(a)	Write a note on material requirements planning.	03
	(b)	Discuss objective of value analysis.	04
	(c)	Discuss various techniques of value analysis and value.	07
		OR	
Q.3	(a)	Explain importance of Kanban system?	03
	(b)	Explain various tests for value analysis.	04
	(c)	Discuss pre-requisite of JIT. Discuss procedure for JIT implementation.	07
Q.4	(a)	Define JIDOKA. Give its importance.	03
	(b)	Explain POKAYOKE technique with its tools.	04
	(c)	Discuss KAIZEN philosophy in detail.	07
		OR	
Q.4	(a)	Explain concept of zero inventories.	03
	(b)	Define supply chain managements. Give role of supply chain.	04
	(c)	Discuss different models of supply chain management. Explain optimization of transport network.	07
Q.5	(a)	Explain role of MIS in enterprise.	03
	(b)	Where POKAYOKE works well?	04
	(c)	Explain various hardware and software used for ERP implementation.	07
		OR	
Q.5	(a)	Explain role of ERP in productivity improvements	03
	(b)	What is information value? How information value can be measured?	04
	(c)	Discuss different ERP modules and their implementation procedure.	07

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