GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VIII EXAMINATION – WINTER 2015

Subject Code:182502

Subject Name: Recent Advances in Manufacturing

Date:04/12/2015

Subject Name: Recent Advances in Manufac Time: 2:30pm to 5:00pm

Total Marks: 70

Instructions:

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.
- Q.1 (a) Explain briefly the concept of Enterprise Resource 07 Planning (ERP). How does ERP help to achieve business integration?
 - (b) What is Supply Chain Management (SCM)? Explain its 07 importance for the organizational performance improvement?
- Q.2 (a) Explain Just In Time (JIT) philosophy in brief. What are 07 the objectives of JIT?
 - (b) Explain the concept and stage wise procedure of Value 07 Engineering (VE).

OR

- (b) How do Value Analysis (VA) and VE differ? Explain with **07** an example
- Q.3 (a) What is Management Information System (MIS)? How 07 does it help in making production system efficient?
 - (b) What are the various models of SC? Explain any one in 07 detail.

OR

- Q.3 (a) Which are the common modules available in standard ERP 07 Package? Explain any one of them.
 - (b) With reference to SC; explain different modes of **07** transportation.
- Q.4 (a) 'Poka-Yoke' helps in defect free production, Explain.
 (b) Define value. Considering a product of your choice, 07
 - explain all the types of values.

OR

Q.4	(a)	Explain 7 types of wastes with respect to JIT.	07
Q.4	(b)	Write a short note on e-commerce.	07
Q.5	(a)	What is Single Minute Exchange of Dies (SMED)? In the context of SMED explain internal and external setup	07
	(b)	Explain kaizen philosophy for continuous improvement.	07
		OR	

Q.5 (a) Explain the role of e-manufacturing in organization.
(b) Explain the concept of 5S. How does it help to organize the workplace?
