Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

BE - SEMESTER-IV (OLD) - EXAMINATION - SUMMER 2017

	•	Code: 141501 Date: 12/06/20	17	
Subject Name: Productivity Engineering Time: 10:30 AM to 01:00 PM Instructions:  1. Attempt all questions.		10:30 AM to 01:00 PM Total Marks:	Total Marks: 70	
	2. 3.	Make suitable assumptions wherever necessary.		
Q.1	(a) (b)	Discuss the role of management in productivity improvement.  Define product and also define production. What are the factors which influence productivity? What are the features of total productivity measurement?	07 07	
Q.2	(a) (b)	Compare between product layout and process layout.  Mention the factors upon which selection of material handling equipment depend? Discuss about the codification of material.  OR	07 07	
	<b>(b)</b>	What are the objectives of material handling? What are the material handling factors?	07	
Q.3	(a) (b)	Discuss different principles of plant layout in the industry? What are the steps involved in work study? Discuss.  OR	07 07	
Q.3	(a) (b)	Discuss various stages of method study. What are the possible advantages of scientific layout?	07 07	
Q.4	(a) (b)	What is the relation between work study and productivity? What are the important factors for the selection of a product? What is the role of value engineering?	07 07	
		OR		
Q.4	(a)	Why a job is divided into elements for time study? Which are the various types of elements?	07	
	<b>(b)</b>	Explain work sampling.	07	
Q.5	(a)	Define plant layout. What are the principles of plant layout? What are the advantages of plant layout?	07	
	<b>(b)</b>	Define the objectives and functions of production planning.  OR	07	
Q.5	(a) (b)	What are the functions and objectives of value engineering? What are the difference between 'Production' and 'Productivity'?	07 07	

\*\*\*\*\*\*