Seat No.:	Enrolment No.
3 COLO 1 1 3 11	

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-IV EXAMINATION - WINTER 2015

Sı	ıbjec	t Code: 141501 Date:06/01/2016	
Sı	ıbjec	t Name: Productivity Engineering	
		02:30pm to 05:00pm Total Marks: 70	
Ins	structi		
	2	 Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. 	
Q.1	(a) (b)	What is plant location? Enlist factors affecting selection of plant location. What are objectives of material handling systems?	07 07
Q.2	(a) (b)	Briefly describe the productivity improvement techniques. Define productivity. What is the difference between production and productivity?	07 07
		OR	
	(b)	Write a short note on Job Plan of value engineering.	07
Q.3	(a) (b)	Write a note 'Selection of material handling equipments'. What are the applications of value analysis?	07 07
		OR	
Q.3	(a)	Explain work sampling.	07
	(b)	State the principle of motion economy.	07
Q.4	(a)	Write note on 'String diagram'.	07
•	(b)	What are the components of work study? What are the steps involved in work study?	07
		OR	
Q.4	(a)	Explain the procedure of Time Study	07
	(b)	Discuss various stages of method study.	07
Q.5	(a)	What factors should be considered while selecting a material handling equipment?	07
	(b)	What are the limitations of forecasting in planning?	07
		OR	
Q.5	(a)	What is the purpose of work measurement? Mention various techniques of work measurement.	07
	(b)	Explain 'Rating'. What are the various methods used for 'Rating'?	07
