Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII • EXAMINATION - WINTER • 2014

	•	Code: 172502 Date: 02-12-201 Name: Productivity Improvement Methods	4
Tiı	me: 1 tructio 1. 2.	10:30 am - 01:00 pm Total Marks: 7 ons: Attempt all questions. Make suitable assumptions wherever necessary.	0
Q.1	(a) (b)	Figures to the right indicate full marks. Define productivity. What are the factors help increasing the productivity? Write a brief note on work study. Differentiate between method study and work measurement.	07 07
Q.2	(a) (b)	Explain objectives of plant maintenance in detail. Which symbols are used to make different charts and diagrams in method study? Illustrate them with brief description. OR	07 07
	(b)	How does man-machine chart differ from multiple activity charts?	07
Q.3	(a) (b)	Describe the different principles of ergonomics. The equipment design plays an important role in improving the productivity", Explain.	07 07
		OR	
Q.3	(a)	What do you understand by minimum wage, fair wage and living wage? Which are desired characteristics of good wage system?	07
	(b)	What is incentive? How financial and non financial incentives play an important role in efficiency of workers?	07
Q.4	(a)	Briefly explain the importance of string diagram and travel chart with illustration.	07
	(b)	Write a brief note on information recording. OR	07
Q.4	(a) (b)	Write a brief note on two handed process chart. List different techniques for work measurement. Explain PMTS in detail.	07 07
Q.5	(a)	Define Business Process Reengineering (BPR). Explain the requirements of BPR.	07
	(b)	Draw a record sheet and explain the necessity of it in maintenance department. OR	07
Q.5	(a) (b)	List and explain the steps involved in BPR. Differentiate between breakdown and preventive maintenance.	
