Seat N	lo.: _			
		GUJARAT TECHNOLOGICAL UNIVERSITY		
Subi	ect o	BE- VII th SEMESTER–EXAMINATION – MAY/JUNE- 2012 code: 172502 Date: 08/06/2	2012	
•		Name: Productivity Improvement Methods		
Time: 02:30 pm – 05:00 pm Total Marks			s: 70	
Insti	ruct	ions:		
1. 2.		Attempt all questions. Make suitable assumptions wherever necessary.		
2. 3.		ures to the right indicate full marks.		
Q.1	(a)	Explain human resource engineering and implementation methodology of Business Process Reengineering.	07	
	(b)	What are the symptoms of poor productivity? How it can be improved	07	
Q.2	(a)	Define 'Standard time' of an operation. Briefly describe the methods used to obtain time standards.	07	
	(b)	Give an expression for the productivity index, and describe the various subordinate ratios. Name a few kinds of productivity measures and explain how they are determined	07	
		OR		
	(b)	Define micro motion study. What are its specific applications? How is it distinguished from memo motion study?	07	
Q.3	(a)	What is SIMO chart? Explain any Ten Therblings with symbols and colour codes.	07	
	(b)	Explain in brief the development of Business Process Reengineering.	07	
		OR		
Q.3	(a)	Discuss the ten steps of operation analysis which should be followed when attempting to improve the existing method for a job	07	
	(b)	State various steps involved in Business Process Reengineering. Give the general advantages and limitations of Business Process Reengineering.	07	
Q.4	(a)	What do you understand by allowances in the context of time study? What are the various allowances and how are they determined?	07	
	(b)	What is meant by 'Wage'? Is it different from 'real wage'? What are the essential characteristics of a good wage plan?	07	
		OR		
Q.4	(a)	Classify incentive plans which tend to increase the employee's output. Discuss them and give their advantages and limitations.	07	
	(b)	How performance can be rated? What is its importance?	07	
Q.5	(a)	Define maintenance. Explain various types of maintenance.	07	
	(b)	Explain equipment design of a wire cut machine based on ergonomics.	07	
		OR		
Q.5	(a)	Explain the duties, functions and responsibilities of plant maintenance engineering department.	07	
	(b)	What do you understand by a 'man-machine system'.? How are the man-machine systems classified?	07	
