Seat No.:		Enrolment No	
	GUJARAT TECHNOLOGICAL UNIVERSITY		
a 1 •	_	BE- IV th SEMESTER-EXAMINATION – MAY/JUNE- 2012	E /2012
•		ode: 141501 Date: 31/0	5/2012
•		Name: Productivity Engineering	
		:30 am – 01:00 pm Total Ma	rks: 70
Instru			
		empt all questions.	
		ke suitable assumptions wherever necessary.	
Q.1	(a)	Define product and also define production. What are the factors which influence productivity? What are the features of total productivity measurement?	1+1+3+2 =7
	(b)	Briefly describe the productivity improvement techniques.	07
Q.2	(a)		3+4 = 07
	(b)	What are the components of work study? What are the steps involved in work study?	2+5 = 07
		OR	
	(b)	Draw a neat and logical flow sheet of a product cycle and briefly describe it.	07
Q.3	(a)	What are the most important considerations for method study? Briefly describe the objectives of work measurement. What are the various techniques used for work measurement?	3+2+2 = 07
	(b)	Discuss the principles of plant layout. What are the factors that influence the plant layout?	4+3 = 07
Q.3	(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 materials.	07 3+4 = 07
Q.4	(a)	ů .	4+3 = 07
	(b)	handling factors? Draw a neat and logical flow sheet of a material planning process and briefly describe it.	07
		OR	
Q.4	(a)	Short note (Any two) i. Performance Rating Factors ii. Advantages of work sampling iii. Planning of a Research Group in a system of organization	3.5+3.5 =07
		iv. SAP	
	(b)	What are the important factors for the selection of a product? What is	3+4 = 07
0.5	(-)	the role of a value engineer?	2:2:2 -
Q.5	(a)	Define value engineering and classify the value. Briefly describe a value engineering cycle.	2+2+3 = 7
	(b)	"Value engineering is a cost preventive techniques" Explain. How do you improve value? OR	3+4 = 07
Q.5	(a)		2+2+3 =
Λ···	(b)	procedure for conducting a work sampling? Establish a comparative study between process focused organization	07 3+4 = 07
		structure and product focused organization structure. What are the advantages and disadvantages of these two?	
