Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

		BE - SEMESTER-V (OLD) - EXAMINATION – SUMMER 2017		
Subject Code: 151503			Date: 08/05/2017	
Sı	ıbjec	et Name: Facilities Layout & Material Handling Systems		
Ti	ime:	02:30 PM to 05:00 PM Total Marks:	70	
In	struct			
		Attempt all questions.		
		Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a)	Explain various types of layout problems with suitable examples.	07	
	(b)	Discuss pitfalls in selection of sites and their remedies.	07	
Q.2	(a)	Explain the systems concept for material handling.	07	
	(b)	What is work station layout? How would you design the work station layout? OR	07	
	(b)	How man, machine, material and movement factors affect the fix position layout? Explain.	07	
Q.3	(a) (b)	Explain various principle of material handling system. Write note: Belt conveyor	07 07	
	(D)	OR	U/	
Q.3	(a)	Write note: Fix position layout.	07	
	(b)	Discuss how productivity can be improved with the help of excellent material handling system design.	07	
Q.4	(a)	Write note: Selection of location and territory.	07	
	(b)	Describe the different types of hoisting equipments. OR	07	
Q.4	(a)	Write short note on 'Unit load concept' in material handling.	07	
	(b)	Discuss most suitable type of layout for manufacturing of (I) Wall clocks and (II) Cement.	07	
Q.5	(a)	Define material handling. Explain it importance in any industry.	07	
	(b)	Explain why material handling and plant layout activity must be combined?	07	
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Q.5	(a)	Discuss factors affecting the selection of material handling equipment in a production shop.	07	
	(b)	List out various principles of plant layout. Explain any three in details.	07	
