Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER - V (NEW) EXAMINATION - WINTER 2015

Subject Code: 2151505 Subject Name: Material Handling Systems Time: 10:30am to 1:00pm Instructions:			Date:08/12/ 2015	
		Total Marks: 70		
	1 2	 Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. 		
Q.1	(a)	Define 'material handling'. Explain why material handling is production?	very important in	07
	(b)	Describe various functions of material handling in brief.		07
Q.2	(a) (b)	Write note on 'unit load concept' in material handling. Explain various principles of materials handling mentioning the implementation.	activities of their	07 07
		OR		
	(b)	What are the steps in analyzing materials handling problems? brief.	Explain them in	07
Q.3	(a) (b)	Explain different criteria kept in mind while designing a system. Explain the procedure for establishing a material handling system.	ı.	07 07
		OR		
Q.3	(a) (b)	Describe various areas of material handling. Describe material handling at workplace. How a workplace planned?	layout should be	07 07
Q.4	(a) (b)	Write short note on 'Modern trends in material handling'. Discuss the factors relating to the feasibility study on a proposed material handling.	fork lift truck for	07 07
		OR		
Q.4	(a) (b)	Describe different types of Hoisting equipment. Explain care and safety in material handling.		07 07
Q.5	(a) (b)	Explain the slewing mechanism. Explain pneumatic and hydraulic conveyors in detail.		07 07
		OR		
Q.5	(a) (b)	Explain different types of Belt conveyor with neat sketch. Explain Gantry cranes and Jib cranes with the help of neat sketch	ı.	07 07
