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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V (NEW) EXAMINATION - WINTER 2018

Subject Code:2151505 Date:2			:20/11/2018
Subje	ct Na	ame:Material Handling Systems	
Time: 10:30 AM TO 01:00 PM Total M			l Marks: 70
Instruc	tions:		
		ttempt all questions.	
		lake suitable assumptions wherever necessary.	
	э. гі	igures to the right indicate full marks.	MARKS
0.1	(a)	Define 'material handling'	
Q.1	(a) (b)	Define 'material handling'. "Zero handling is the best handling" Criticize the statement.	03 04
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	(c)	Describe various functions of material handling in brief.	07
Q.2	(a)	Discuss gravity principle of material handling.	03
	(b)	· · · · · · · · · · · · · · · · · · ·	04
	(c)	Discuss wire ropes and chains.	07
	()	OR	0=
0.1	(c)	Explain the procedure for establishing a material handling system	
Q.3	(a)		03
	(b)	Discuss Basic types of material handling equipments. Explain care and safety in material handling.	04 07
	(c)	OR	U7
Q.3	(a)	What are the symptoms of poor handling?	03
Q.u	(b)	Explain the slewing mechanism.	04
	(c)	Explain pneumatic and hydraulic conveyors in detail.	07
Q.4	(a)	In which situation conveyors are preferred? Why?	03
	(b)	Describe material handling at workplace.	04
	(c)	Explain Gantry cranes and Jib cranes with the help of neat sketch OR	. 07
Q.4	(a)	"Material handling activity is non productive activity" Criticize statement	the 03
	(b)	Explain why material handling is very important in production?	04
	(c)	Write note on 'unit load concept' in material handling.	07
Q.5	(a)	Discuss use of cubic space principle of material handling	03
	(b)	Describe various areas of material handling.	04
	(c)	Explain the Computer Aided Systems for Material Handling.	07
		OR	
Q.5	(a)	Discuss about container used in material handling.	03
	(b)	What is the role of an industrial engineer in material handling?	04

(c) Explain the objectives of the material handling systems.

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