

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

		BE - SEMESTER-III (NEW) EXAMINATION – SUMMER 2019			
Subje	ect C	Code: 2134001 Date: 04/00	6/2019		
Subje	ect N	Jame: Machineries & Equipments			
Time: 02:30 PM TO 05:00 PM Total Marks					
Instru					
		Attempt all questions.			
		Make suitable assumptions wherever necessary.			
	<b>3.</b> ]	Figures to the right indicate full marks.			
			MARKS		
Q.1	(a)	Enumerate uses/applications of crusher.	03		
		Discuss use and types of feeders.	04		
	(c)	Explain Operating principle, components, construction, working,	07		
		application, advantages-limitations of ready mix concrete plant with			
		neat sketch.			
		WW	0.0		
Q.2		1 1	03		
	<b>(b)</b>		04		
	(c)		07		
		application, advantages-limitations of vibratory roller compaction			
		equipment with neat sketch.  OR			
	(c)		07		
	(C)	application, advantages-limitations of Tractor with neat sketch.	07		
		application, advantages initiations of fractor with heat sketch.			
Q.3	(a)	Enumerate uses of Motor Grader.	03		
<b>~.</b>	(b)		04		
	(c)		07		
	(-)	application, advantages-limitations of any one of the Scraper with			
		neat sketch.			
		OR			
Q.3	(a)	What is dozer? Write about history of dozer and its operations.	03		
	<b>(b)</b>	Classify excavators.	04		
	(c)	Explain Operating principle, components, construction, working,	07		
		application, advantages-limitations of Excavator with neat sketch.			
Q.4	(a)	Explain Operating principle, components, construction, working,	07		
		application, advantages-limitations of Road header tunneling			
		equipment with neat sketch.			
	<b>(b)</b>	Explain Operating principle, components, construction, working,	07		
		application, advantages-limitations of Centrifugal fans - radial,			
		forward and backward curved with neat sketch.			
		OR			
<b>Q.4</b>	(a)	• •	03		
	<b>(b)</b>	•	04		
	(c)		07		
		application, advantages-limitations of any kind of cooling tower with			
		neat sketch.			
0 F	(~)	Explain principles of material handling in detail	03		
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04

**(b)** Classify material handling systems in general.



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Firstranker's Explain Operating principles Rear Person construction. Firstranker Com application, advantages-limitations of Fork lift with neat sketch.

## OR

Q.5	(a)	Explain construction of rope.	03
	<b>(b)</b>	Enumerate measures for safety.	04
	(c)	What is TPM? Explain pillars of TPM in brief.	07

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