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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

## BE SEM-III Examination May 2012 Subject code: 131903

		Subject code: 131903	
		Subject:- Manufacturing Process-I	
Date:	08/05	· · · · · · · · · · · · · · · · · · ·	1
T4	4		
Instr			
		Attempt all questions.	
		Make suitable assumptions wherever necessary.	
		Figures to the right indicate full marks.	
<b>Q.1</b>	(a)	Explain the functions of the basic parts of the lathe with neat sketches.	<b>07</b>
	<b>(b)</b>	Explain various work holding devices of lathe machine.	<b>07</b>
<b>Q.2</b>	(a)	1	<b>07</b>
	<b>(b)</b>		<b>07</b>
		quick return mechanism.	
		OR	
	<b>(b)</b>		<b>07</b>
		of the lathe machine.	
<b>Q.3</b>	(a)		<b>07</b>
		applications.	
	<b>(b)</b>		<b>07</b>
		OR	
<b>Q.3</b>	(a)		<b>07</b>
	<b>(b)</b>	Differentiate between shaper and Planer.	<b>07</b>
<b>Q.4</b>	(a)		<b>07</b>
	<b>(b)</b>	Explain plain and universal milling.	<b>07</b>
		OR	
<b>Q.4</b>	(a)		<b>07</b>
	<b>(b)</b>		<b>07</b>
		on lathe operation.	
Q.5	(a)		07
	<b>(b)</b>	E E	<b>07</b>
		a lathe. Determine the machining time to reduce the rod to 45 mm in one pass	
		when cutting speed is 30 m/min and a feed of 0.7 mm/rev.	
		OR	. –
Q.5	(a)		07
	<b>(b)</b>	Discus various broaching methods in details with its applications.	07