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S	ubject	GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER- III(OLD) EXAMINATION – SUMMER 2019 Code: 131903 Date: 19/06/2019	
Т	•	2 Name: Manufacturing Process-I 02:30 PM TO 05:00 PM Total Marks: 70 Dons:	
	1. 2.	Attempt all questions.	
Q.1	(a)	Classify machine tools in detail. Explain types of motions in machine tools with examples.	07
	(b)	Draw a block diagram of an Engine Lathe and label all parts of it.	07
Q.2		Explain with neat sketch up milling and down milling process. Describe its advantages and limitations.	07
	(b)	Explain Glazing Loading Trueing and Dressing of grinding wheel.	07
	(b)	OR Explain the standard marking system for grinding wheels.	07
Q.3	6 (a)	Enlist various alignment tests carried out on Lathe machine to check accuracy level. Describe any two with neat sketch.	07
	(b)	Classify Milling machine. Explain principal parts of Column and Knee type Horizontal Milling machine with neat sketch. OR	07
Q.3	6 (a)	Enumerate various milling operations. Explain any three of them with neat sketch.	07
	(b)	Clearly differentiate the Capstan and Turret Lathe.	07
Q.4		of shaping and planning as compared to other operations	07
	(b)	Draw neat sketch of radial drilling machine and name its parts, explain its working.	07
0.4	(a)	OR List various types of drilling machine and explain with a neat sketch gang	07
Q.4	(a)	drilling machine.	07
	(b)	Differentiate between open side planner and Standard double housing planner.	07
Q.5	5 (a) (b)	Classify Broaching machine. Explain Horizontal Pull Type Broaching machine Explain in short: Shaper, Planner and Slotter Machine. In which machine, quick return mechanism is used? Explain it in brief. OR	07 07
Q.5		List the principal types of metal cutting saws. Describe working of reciprocating and circular sawing machine. With a peat sketch explain the working of horizontal boring machine stating its	07 07
	(b)	With a neat sketch explain the working of horizontal boring machine stating its advantages and limitations.	07
