Seat N	o.:	GUJARAT TECHNOLOGICAL UNIVERSITY		
Subject Name: Machining Processes			6 02/01/2017	
			Marks: 70	
	2. N	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
			MARKS	
Q.1	1	Short Questions Define: Speed	14	
	2 3 4	Define: Feed Define: Depth of Cut Draw primary motion of Cutting Tool and Work-piece The Lathe		
	5	Machine with net sketch. Draw primary motion of Cutting Tool and Work-piece Drilling Machine with net sketch.		
	6	Draw primary motion of Cutting Tool and Work-piece Milling Machine with net sketch.		
	7	Draw primary motion of Cutting Tool and Work-piece Shaper Machine with net sketch.		
	8	Draw primary motion of Cutting Tool and Work-piece Slotter Machine with net sketch.		
	9	Draw primary motion of Cutting Tool and Work-piece Planner Machine with net sketch.		
	10	Draw primary motion of Cutting Tool and Work-piece Grinding Machine with net sketch.		
	11	Draw primary motion of Cutting Tool and Work-piece Broaching Machine with net sketch.		
	12 13	Enlist Surface finishing operations. Function of Steady Rest in Lathe Machine.		
	14	Limitation of Broaching Machine.		
Q.2	(a)	Explain the functions of Tail Stroke in Lathe Machine.	03	
	(b) (c)	Draw the neat sketch of Lathe machine with its major parts. Enlist the various cutting operations carried out in the Lathe machine. Explain any TWO of them with neat sketch.	04 07	
	(a)	OR Draw geometry of Single point cutting Tool with different angles	07	
Q.3	(c) (a)	Draw geometry of Single point cutting Tool with different angles. Enlist different types of Drilling Machine.	07	
C	(b)	Draw the neat sketch of any one Drilling machine with its major		

(c) Enlist the various cutting operations carried out in the Drilling

parts.

07

Q.4	(a)	Explain the difference between Machine Tool and Cutting Tool.	03
	(b)	Explain the function of Coolant during machining operations.	04
	(c)	Explain the Up milling and Down Milling with neat sketch.	07
		OR	
Q.4	(a)	Classify various types of Abrasives used in the Grinding wheel.	03
	(b)	Explain various types of Bond in the Grinding Wheel.	04
	(c)	Explain the marking system of Grinding wheel with suitable example.	07
Q.5	(a)	Write the Application of Single Point Cutting Tool in various machine tools.	03
	(b)	Enlist types of Chuck. Explain any one of them with neat sketch.	04
	(c)	Explain the difference between Shaper and Planner Machine Tool.	07
		OR	
Q.5	(a)	Write the Application of Multi Point Cutting Tool in various machine tools.	03
	(b)	Draw geometry of Broach tool with neat sketch.	04
	(c)	Enlist different Quick Return Mechanism. Explain any one of them with neat sketch	07
