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GUJARAT TECHNOLOGICAL UNIVERSITY

GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-V (NEW) EXAMINATION – WINTER 2018			
Sub	iect (Code:2152007 Date:27/11/2	018
		Name:Manufacturing Technology - I	010
Time: 10:30 AM TO 01:00 PM Total Marks: 70			. 70
	uction		. 70
mser		Attempt all questions.	
		Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	
Q.1	(a)	Describe the different functions performed by cutting fluids during	03
Ľ		machining operations.	
	(b)	Write short note of tapers and taper turning in lathe machine.	04
	(c)	Explain single point cutting tool geometry.	07
Q.2	(a)	Write short note on Apron Mechanism.	03
	(b)	Define function of following terms. I) head stock II) Tailstock III) carriage	04
		Iv) feed mechanism	
	(c)	Write short note of following	07
		I) thread cutting II) Capstan and Turret Lathe.	
	(\cdot)	OR	07
Q.3	(\mathbf{c})	Explain different accessories and attachment of lathe.	07 03
Q.3	(a) (b)	Explain vertical Boring Machine Operations Explain gang drill machine	03 04
	(D) (C)	Explain Drilling machine operations and also explain drill chucks.	07
	(C)	OR	07
Q.3	(a)	Write short note on Radial Drilling Machine.	03
C ¹⁰	(b)	Describe with neat sketch	04
		(a) Taping (d) Counter Sinking (b) Spot Facing (e) Spring Winding	
		(c) Spinning	
	(c)	Sketch and describe the twist drill nomenclature.	07
Q.4	(a)	Explain working principle of Shaper Machine.	03
	(b)	Explain band sawing machine with advantages and limitation.	04
	(c)	Explain indexing and dividing heads of milling machine.	07
Q.4	(a)	OR Classification of milling Machine and explain any one with figure.	03
۳.9	(a) (b)	Explain planer machines with figure.	03
	(c)	Discuss and describe quick return mechanism and auto feed mechanism of	07
	(0)	shaper machine.	0.
Q.5	(a)	Explain Advantages and application of broaching machine.	03
•	(b)	What is mandrel? Explain any two types of mandrels.	04
	(c)	Explain following operations with neat sketches	07
		(a) Honing (b) Buffing (c) Lapping (d) Burnishing	
		OR	
Q.5	(a)	OR Explain Advantages and application of Grinding Wheel.	03
Q.5	(a) (b)		03 04 07