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Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-IV (NEW) EXAMINATION - SUMMER 2021

Subject Code:3141908		Code:3141908 Date:08	Date:08/09/2021	
Subj	ect I	Name:Manufacturing Processes	7	
Time:02:30 PM TO 05:00 PM			Total Marks: 70	
Instru	ction	s:		
	2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. Simple and non-programmable scientific calculators are allowed.		
	₹.	Simple and non-programmable scientific calculators are anowed.	MARKS	
Q.1	(a) (b)		03 04	
	(c)	Explain about crank and slotted link quick return mechanism in shaper machine.	07	
Q.2	(a)	Explain knurling operation in lathe machine.	03	
	(b)	A	04	
	(c)	Draw schematic fig for Lathe machine and describe it components. OR	07	
	(c)		07	
Q.3	(a)		03	
	(b)		04	
	(c)	Draw and explain nomenclature of drill bit. OR	07	
Q.3	(a)	At what speed a 20 mm drill will run for cutting steel at 25 m/min surface speed?	03	
	(b)	Write with help of fig counter sinking and counter boring operation.	04	
	(c)	Explain tapping attachment in drilling machine.	07	
Q.4	(a)		03	
	(b)		04	
	(c)	Explain about crank and slotted link quick return mechanism in shaper machine.	07	
0.4	()	OR	0.2	
Q.4	(a)		03	
	(b)		04	
	(c)		07	
Q.5	(a)		03	
	(b)		04	
	(c)	Explain Indian standard marking system for grinding wheels. OR	07	
Q.5	(a)	What is broaching? How broaches are classified?	03	
	(b)		04	
	(c)	Explain any one Alignment test of Lathe machine with neat sketch.	07	