Seat No.:	Enrolment No.

## GUJARAT TECHNOLOGICAL UNIVERSITY

**BE - SEMESTER-IV (NEW) EXAMINATION - SUMMER 2022** 

Subject Code:3140204 Date:04-07-2022

**Subject Name: Automotive Manufacturing Processes and Technology** 

Time:10:30 AM TO 01:00 PM Total Marks: 70

## **Instructions:**

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

	4.	Simple and non-programmable scientific calculators are allowed.	
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Q.1	(a)	Explain the reasons for development of non- traditional machining process.	03
	<b>(b)</b>	Describe any four operations that can be carried out on Milling machine along with neat sketches	04
	(c)	Explain working principle of Lathe machine with neat sketch.	07
Q.2	(a)		03
	<b>(b)</b>		04
	(c)	Describe Compression Moulding Plastic manufacturing process with neat sketch along with its applications  OR	07
	(c)		07
Q.3	(a)	Give difference between welding, soldering and welding	03
	<b>(b)</b>	Explain the Oxy Acetylene Gas flames with suitable sketch.	04
	(c)	Welding with neat sketch	07
0.3	(.)	OR	0.2
Q.3	(a)	<del>y                                    </del>	03 04
	(b) (c)		07
Q.4	(a)		03
	<b>(b)</b>		04
	(c)	neat sketch	07
0.4	(0)	OR	02
Q.4		List out various casting defects. Explain any two.  Explain the Investment casting process with suitable sketch.	03 04
	(c)		07
Q.5	(a)	Define Ingot, Slab and Billet.	03
	<b>(b)</b>		04
	(c)	Explain Wire drawing and Tube drawing with suitable sketch <b>OR</b>	07
Q.5	(a)	Importance of recrystallization temperature for mechanical working process.	03
	<b>(b)</b>	1 0 01	04
	<b>(c)</b>	What is forging process? Explain drop forging & roll forging.	07