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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

BE - SEMESTER- V (New) EXAMINATION - WINTER 2019			
<b>Subject Code: 2150206 Date: 21/</b>			1/11/2019
Subject Name: Automotive manufacturing			
Time: 10:30 AM TO 01:00 PM Total Mar			arks: 70
Instr	uction	s:	
		Attempt all questions.	
		Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	MADEC
			MARKS
Q.1	(a)	Define forging process and its use in Automobile.	03
	<b>(b)</b>		04
	(c)	Describe investment casting with a neat sketch.	07
Q.2	(a)		03
	<b>(b)</b>	Explain extrusion process with neat sketch.	04
	<b>(c)</b>	Describe Resistance welding in context to car manufacturing.	07
		OR	
	(c)	Explain TIG Welding process with suitable example.	07
Q.3	(a)		03
	<b>(b)</b>		04
	(c)	•	07
	(•)	OR	0.
Q.3	(a)	Define Jig, Fixture and Degree of Freedom.	03
	<b>(b)</b>		04
	(c)		07
		neat sketch.	
<b>Q.4</b>	(a)	Explain working principle of Ultrasonic machine.	03
	<b>(b)</b>	Differentiate between Die electric Fluid and Electrolyte fluid used in	04
		Non-conventional Machining processes.	
	(c)		07
		and application.	
		OR	
<b>Q.4</b>	(a)		03
	<b>(b)</b>		04
	(c)	Explain in details about Casting Allowances with its sketch.	07
Q.5	(a)	List out applications of Spot welding and Seam welding	03
	<b>(b)</b>	•	04
	(c)	Explain CUPOLA Furnace with a neat sketch.	07
		OR	

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Describe any three Super finishing process with suitable example.

Define: Pattern, Cheek, Electrode polarity.

Illustrate the types of Clamps used in Jigs and Fixtures.

**Q.5** 

(a) **(b)** 

**(c)** 

03

04

**07**