Seat No.:	Enrolment No
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Subject Code:2141908

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

BE - SEMESTER- IV(NEW) EXAMINATION – SUMMER 2015

Date:05/06/2015

Subject Name: Manufacturing Processes-II				
	Time: 10:30am-1.00pm Total Marks:		<b>70</b>	
Inst	1. 2. 3.	Attempt all questions.  Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.		
Q.1	(a) (b)	Define manufacturing process and enlist various manufacturing process. What is pattern? list different types of patterns and explain any two with neat sketch.	07 07	
Q.2	(a) (b)	What is the difference between sand and shell mold casting? State the types of furnaces used in foundries discuss in brief the working of cupola furnace.	07 07	
	<b>(b)</b>	<b>OR</b> What is gating system? what are its function? state types of gate with its advantages.	07	
Q.3	(a)	Describe the types of flame obtained in oxy-acetylene gas welding with neat sketch.	07	
	<b>(b)</b>	State the hot working and cold working process advantage and disadvantages of the process.	07	
		OR		
Q.3	(a) (b)	Write short note on Electro beam welding. Classification of rolling process according to the shape of rolling.	07 07	
Q.4	(a) (b)	Explain wire drawing and tube drawing with neat sketches.  Classification of plastic and its general properties.  OR	07 07	
Q.4	(a)	What is laser beam welding process? Explain the steps involved in the process and state its application.	07	
	<b>(b)</b>	Explain with neat sketch injection moulding process. What are the limitations of this process?	07	
Q.5	(a)	Explain the various metal joining process along with the types of welding process.	07	
	<b>(b)</b>	Draw the various glass structure explain properties and application of glass manufacturing.	07	
		OR		
Q.5	(a) (b)	Enlist the various types of presses used in forging explain with neat sketch. Explain blow molding process stating its advantages, limitation and application.	07 07	

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