Seat No.: Enrolment No.
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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

**BE - SEMESTER-V • EXAMINATION - SUMMER • 2014** 

Subject Code: 151901  Subject Name: Manufacturing Processes - II  Time: 10.30 am - 01.00 pm  Instructions:  Date: 11-06-2014  Total Marks: 70			
IIIS	1. 2.	Attempt all questions.  Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.	
Q.1	(a)	Discuss various types of patterns in casting.	07
	<b>(b)</b>	Explain principle and operation of rolling process.	07
Q.2	(a)	Explain with neat sketches types of gating systems used in casting.	07
	<b>(b)</b>	List the super finishing process. Explain any two of them.	07
		OR	
	<b>(b)</b>	Discuss Principle of SAW Process with its advantages, disadvantages and application.	07
Q.3	(a)	List the various defects occurred in welding. Explain any three of them.	07
	<b>(b)</b>	Explain the TIG and MIG arc welding. Give the application of each.	07
		OR	
Q.3	(a)	Discuss Wire drawing and tube drawing.	07
	<b>(b)</b>	Discuss various types of moulding sand.	07
Q.4	(a)	Discuss Injection moulding process with neat sketch.	07
	<b>(b)</b>	Write a short note on Spot Welding.	07
		OR	
Q.4	(a)	Write a short note on Electron beam Welding.	07
	<b>(b)</b>	Discuss various types of metal working defects.	07
Q.5	(a)	Discuss various types of smith forging operations.	07
	<b>(b)</b>	Explain investment casting process.	07
		OR	
Q.5	(a)	Write a short note on hand forging tools	07
	<b>(b)</b>	Discuss various methods of extrusion with neat sketch.	07