

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**BE - SEMESTER-V • EXAMINATION – SUMMER • 2014**

**Subject Code: 151901****Date: 11-06-2014****Subject Name: Manufacturing Processes - II****Time: 10.30 am - 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.

- Q.1** (a) Discuss various types of patterns in casting. **07**  
(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) List the super finishing process. Explain any two of them. **07**
- OR**
- (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) 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) Discuss various types of moulding sand. **07**
- Q.4** (a) Discuss Injection moulding process with neat sketch. **07**  
(b) Write a short note on Spot Welding. **07**
- OR**
- Q.4** (a) Write a short note on Electron beam Welding. **07**  
(b) Discuss various types of metal working defects. **07**
- Q.5** (a) Discuss various types of smith forging operations. **07**  
(b) Explain investment casting process. **07**
- OR**
- Q.5** (a) Write a short note on hand forging tools **07**  
(b) Discuss various methods of extrusion with neat sketch. **07**