

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**