

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER- IV(NEW) EXAMINATION – SUMMER 2015

Subject Code:2141908

Date:05/06/2015

Subject Name: Manufacturing Processes-II

Time: 10:30am-1.00pm

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) Define manufacturing process and enlist various manufacturing process. **07**
(b) What is pattern? list different types of patterns and explain any two with neat sketch. **07**

- Q.2** (a) What is the difference between sand and shell mold casting? **07**
(b) State the types of furnaces used in foundries discuss in brief the working of cupola furnace. **07**

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) State the hot working and cold working process advantage and disadvantages of the process. **07**

OR

- Q.3** (a) Write short note on Electro beam welding. **07**
(b) Classification of rolling process according to the shape of rolling. **07**
- Q.4** (a) Explain wire drawing and tube drawing with neat sketches. **07**
(b) Classification of plastic and its general properties. **07**

OR

- Q.4** (a) What is laser beam welding process? Explain the steps involved in the process and state its application. **07**
(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) Draw the various glass structure explain properties and application of glass manufacturing. **07**

OR

- Q.5** (a) Enlist the various types of presses used in forging explain with neat sketch. **07**
(b) Explain blow molding process stating its advantages, limitation and application. **07**
