

GUJARAT TECHNOLOGICAL UNIVERSITY
PDDC - SEMESTER – V • EXAMINATION – WINTER 2012

Subject code: X 51902**Date: 17/01/2013****Subject Name: Manufacturing Process-II****Time: 02.30 pm - 05.00 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) List the factors that need to be considered for selecting manufacturing process and explain their significance. **07**
(b) Explain different hand tools used in moulding. **07**
- Q.2** (a) List the types of sand moulds and explain any three. **07**
(b) Explain the properties of the core. **07**
- OR**
- (b) With neat sketches explain the steps involved in making a two box sand mould. **07**
- Q.3** (a) List the functions of the gating system. **07**
(b) Explain mechanical surface cleaning processes. **07**
- OR**
- Q.3** (a) List common sand casting defects. **07**
(b) Explain super finishing and buffing processes. **07**
- Q.4** (a) Explain oxy-acetylene flames. **07**
(b) With neat sketch explain MIG welding. **07**
- OR**
- Q.4** (a) Explain Resistance Welding process and differentiate spot welding & seam welding. **07**
(b) Differentiate Soldering & Brazing **07**
- Q.5** (a) Explain different forging operations. **07**
(b) Explain hot & cold extrusions with their advantages & disadvantages. **07**
- OR**
- Q.5** (a) With neat sketches explain die shearing operations. **07**
(b) Explain different thermosetting plastics. **07**
