

GUJARAT TECHNOLOGICAL UNIVERSITY**PDDC - SEMESTER-V • EXAMINATION – SUMMER • 2014****Subject Code: X 51902****Date: 29-05-2014****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) Differentiate casting, welding and forming processes. **07**
(b) Explain different hand tools used in moulding. **07**
- Q.2** (a) Explain different types of moulds. **07**
(b) State the properties of pattern materials and list the pattern materials. **07**
- OR**
- (b) Explain different types of patterns. **07**
- Q.3** (a) Explain the properties of moulding sand. **07**
(b) List the tests required to determine the property of sand and explain any one of them. **07**
- OR**
- Q.3** (a) Explain centrifugal casting process with their advantages, disadvantages and applications. **07**
(b) Explain Die casting process with their advantages, disadvantages and applications. **07**
- Q.4** (a) Define welding and classify welding and allied processes. **07**
(b) Explain oxy-acetylene flames with their applications. **07**
- OR**
- Q.4** (a) Explain submerged arc welding process with their advantages, disadvantages and applications. **07**
(b) Explain laser beam welding process with their advantages, disadvantages and applications. **07**
- Q.5** (a) Explain the advantages and disadvantages of hot working processes. **07**
(b) With sketch explain the rolling mill stands. **07**
- OR**
- Q.5** (a) With sketch explain different forging operations. **07**
(b) With sketch explain different die shearing operations. **07**
