

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

PDDC SEM-V Examination-Nov-2011

Subject code: X51902

Date: 22/11/2011

Subject Name: Manufacturing Process-II

Time: 2.30 pm -5.00 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) Classify manufacturing process. Enlist criteria for selection of manufacturing process. **07**
(b) Explain different types of patterns. **07**
- Q.2** (a) Explain different types of gating system. **07**
(b) What is Riser? Classify Riser. What are the criteria for placement of riser for proper function? **07**
- OR**
- (b) Explain importance of allowances in casting. **07**
- Q.3** (a) Explain working principle of centrifugal casting and investment casting. **07**
(b) Describe different defects in casting. **07**
- OR**
- Q.3** (a) Explain importance of flux used in Submerge Arc Welding. Describe working principle of SAW. **07**
(b) Explain different types of welding defects and methods to reduce these defects. **07**
- Q.4** (a) Explain working principle, process and application of TIG welding. **07**
(b) Explain importance of power source. Describe advantage and disadvantage of AC and DC power source. **07**
- OR**
- Q.4** (a) Explain working principle and operation of Rolling and Drawing. **07**
(b) Explain Blanking, Piercing, Coining and Embossing. **07**
- Q.5** (a) Explain different types of Forging Press. **07**
(b) Explain working principle, process and application of Deep drawing. **07**
- OR**
- Q.5** (a) Explain process of Thermoforming. **07**
(b) Describe process of Grinding, Lapping and Burnishing. **07**
