

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-V • EXAMINATION – SUMMER 2013****Subject Code: 152501****Date: 14-05-2013****Subject Name: Casting Technology****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) Explain the basic Gating System Design with neat sketch . **07**  
(b) Write a short note on Shell Molding Process with neat sketch. **07**

- Q.2** (a) Define casting .List down the steps for making a casting product. **07**  
(b) Write a brief note on Pattern Allowances. **07**

**OR**

- (b) Write a brief note on types of Pattern Materials. **07**

- Q.3** (a) Explain Centrifugal Casting Process with neat sketch. **07**  
(b) Explain Continous Casting Process with neat sketch. **07**

**OR**

- Q.3** (a) Write a short note on Investment Casting Process with neat sketch. **07**  
(b) Explain various Molding Methods in detail. **07**

- Q.4** (a) Explain principle and working of Cupola Furnace with neat sketch. **07**  
(b) Differentiate DT and NDT. Explain any two NDT methods with neat sketch. **07**

**OR**

- Q.4** (a) Explain principle and working of Induction Furnace with advantages and limitations. **07**  
(b) Explain various Casting Defects with its relative causes and remedies. **07**

- Q.5** (a) List down the properties of Molding Sand and explain any five. **07**  
(b) Explain any two Mold Making Machine with neat sketch **07**

**OR**

- Q.5** (a) Explain Types Of Gates in detail with neat sketch. **07**  
(b) List down the Types Of Pattern and explain any five. **07**

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