

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER–VIII • EXAMINATION – SUMMER • 2015

Subject Code: 183602**Date: 05/05/2015****Subject Name: Design & Fabrication of Molds****Time: 10.30am-01.00pm****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) Explain Compression molding process with proper diagram. Write about different mold closure types. **07**
 (b) Write a note on Transfer molding process. **07**
- Q.2** (a) Write a note on metal casting processes molding advantages and disadvantages. **07**
 (b) Write about various steps involved in sand casting process. **07**
- OR**
- (b) Write a note on compression molding vs. injection molding. **07**
- Q.3** (a) Write in detail about core and pattern and different types of pattern. **07**
 (b) Write in detail about investment and plastic mold and ceramic casting processes. **07**
- OR**
- Q.3** (a) Write about the basic permanent mold process. **07**
 (b) Write about the Die casting process. **07**
- Q.4** (a) Which are the metals or alloys for casting and then give there classification in detail. **07**
 (b) Write detailed note on Shell and vacuum molding processes. **07**
- OR**
- Q.4** (a) Write in detail about extrusion process used for one of the followings **07**
 i) Sheets
 ii) Cables
 iii) Tubes
 (b) Write about various problems encountered during injection molding process. **07**
- Q.5** (a) Write a note on developing a die or mold using computer aided process planning (CAPP). **07**
 (b) Write about Bulk molding and Sheet Molding Compounds. **07**
- OR**
- Q.5** (a) Write in detail about Expanded Polystyrene Process including its advantages and disadvantages. **07**
 (b) Write about Permanent mold casting including advantages and limitations **07**
