

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VIII EXAMINATION – SUMMER 2016****Subject Code:183602****Date:16/05/2016****Subject Name:Design & Fabrication of Molds (Department Elective- IX)****Time:10:30 AM to 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) Write short note on compression molding with diagram. Give three name of compression molded products. **07**
- (b) Write a note on simple two-plate, three -plate molds and split molds. **07**
- Q.2** (a) Write function of venting, runner and gates **07**
- (b) Write about various steps involved in sand casting process. **07**
- OR**
- (b) Write a note on extrusion vs. injection molding. **07**
- Q.3** (a) Explain about the core and pattern and different types of pattern. **07**
- (b) Write in detail about blow molding **07**
- OR**
- Q.3** (a) Write about the basic heating systems for plates & Molds. **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
- iii) Tubes
- (b) Explain about the various problems encountered during injection molding process. **07**
- Q.5** (a) Write a note on developing a mold by using computer aided design & software. **07**
- (b) Write about Bulk molding and Sheet Molding Compounds. **07**
- OR**
- Q.5** (a) Write short note on reaction injection molding **07**
- (b) Write about the steels used molding tools & their treatment for fabrication of mold **07**
