

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-V • EXAMINATION – WINTER 2013****Subject Code: 152304****Date: 09-12-2013****Subject Name: Plastic Processing and Machinery****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) Give the principle of pot transfer molding. List down the difference between pot and plunger transfer molding. **07**
- (b) Explain injection Blow Molding process with advantages and disadvantages. **07**
- Q.2** (a) Define RIM? Describe the process steps in detail. **07**
- (b) What is stretch Blow Molding Process? Why it is used? Explain with advantages and disadvantages. **07**
- OR**
- (b) Explain Plunger type Transfer Molding with neat sketch. **07**
- Q.3** (a) Define Bulk Factor and Preforms. Explain with advantages and disadvantages. **07**
- (b) List out and explain the factors affecting on Compression Molding Process. **07**
- OR**
- Q.3** (a) Explain trouble shooting for Compression Molding. **07**
- (b) What is Injection Molding? Explain Process steps with line diagram along with advantages and disadvantages. **07**
- Q.4** (a) List out and explain the types of compression molds in details. **07**
- (b) Explain pressure forming process with neat sketch. List out difference between Pressure and Vacuum Forming. **07**
- OR**
- Q.4** (a) Provide detail comparison of Transfer and Injection Molding process. **07**
- (b) Explain the types of calender rolls with neat sketch. **07**
- Q.5** (a) What is thermoforming Process? Explain plug assist forming process with detail. **07**
- (b) Define Blow Molding. What is extrusion blow Molding? Clarify extrusion blow molding. Explain any one in detail. **07**
- OR**
- Q.5** (a) Draw general purpose Screw and explain Nomenclature of screw. **07**
- (b) Explain free forming. Mechanical forming and matched die forming. **07**
