

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-V • EXAMINATION – WINTER • 2014****Subject Code: 152304****Date: 08-12-2014****Subject Name: Plastic Processing & 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) What is Plastic Processing? Provide various processing method for Thermoplastic & Thermoset. **07**
(b) What is calendering? Why it is used? Explain calendering line with neat sketch. **07**
- Q.2** (a) What is Injection Molding? Explain Process steps with line diagram along with advantages & disadvantages **07**
(b) What is Reacting Injection Molding? Describe the process steps in detail. **07**
OR
(b) Explain advantages & disadvantages of calendering process. **07**
- Q.3** (a) Explain Plunger Transfer Molding with neat sketch. **07**
(b) Which are the factors affecting on Compression Molding Process? **07**
OR
- Q.3** (a) Explain advantages & disadvantages of Transfer Molding. **07**
(b) Give trouble shooting for Transfer Molding. **07**
- Q.4** (a) What is compression molding? Explain the process with neat sketch along with advantages & disadvantages. **07**
(b) Compare Transfer Molding & Compression Molding Process. **07**
OR
- Q.4** (a) Which are the materials use for thermoforming? Explain any two process of thermoforming. **07**
(b) What is stretch Blow Molding Process? Why it is used? Explain with advantages & disadvantages. **07**
- Q.5** (a) Explain Drapback Thermoforming process in detail. **07**
(b) Comparison of Injection blow molding & Extrusion Blow Molding. **07**
OR
- Q.5** (a) Explain Twin Sheet Thermoforming Process in detail. **07**
(b) Explain pressure forming process with neat sketch. List out difference between Pressure & Vacuum Forming. **07**
