

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V • EXAMINATION – SUMMER • 2014

Subject Code: 152304

Date: 24-06-2014

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 out the difference between the pot and plunger type molding? **07**
- (b) Give trouble shooting for transfer molding? **07**
- Q.2** (a) What are the factors affecting the Compression molding process? **07**
- (b) Define blow molding process. What is extrusion blow moulding? Classify extrusion blow moulding. Explain any one in detail? **07**
- OR**
- (b) Explain compression molding. Explain the process with neat sketch along with advantages and disadvantages? **07**
- Q.3** (a) Define Thermoforming. Explain Plug Assisted Thermoforming in detail? **07**
- (b) Define: Cull, Sprue, Runner and Gate? **07**
- OR**
- Q.3** (a) What is Calendering? Explain calendar line in detail? **07**
- (b) What is Parison, Pinch off and Blow pin? **07**
- Q.4** (a) What are the factors affecting Transfer moulding process? **07**
- (b) Write short notes on: 1. Bulk factor and 2. Blow up ratio **07**
- OR**
- Q.4** (a) What are the types of calendar rolls? Explain which arrangement is suitable for material? **07**
- (b) What is the difference between Transfer and Compression moulding? **07**
- Q.5** (a) Explain injection molding. Explain the process with neat sketch along with advantages and disadvantages? **07**
- (b) Explain Troubleshooting in calendaring process? **07**
- OR**
- Q.5** (a) Define Preform? Explain advantages and disadvantages of using preform? **07**
- (b) Explain extrusion molding. Explain the process with neat sketch along with advantages and disadvantages? **07**
