Seat No.:	Enrolment No
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Subject Code: 152304

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V • EXAMINATION – SUMMER • 2014

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** Give the principle of pot transfer molding. List out the difference between the pot 07 (a) and plunger type molding? Give trouble shooting for transfer molding? **(b)** 07 What are the factors affecting the Compression molding process? **Q.2** 07 Define blow molding process. What is extrusion blow moulding? Classify extrusion 07 blow moulding. Explain any one in detail? Explain compression molding. Explain the process with neat sketch along with **(b) 07** advantages and disadvantages? Define Thermoforming. Explain Plug Assisted Thermoforming in detail? Q.3 07 Define: Cull, Sprue, Runner and Gate? **(b) 07** What is Calendering? Explain calendar line in detail? 07 0.3 (a) What is Parison, Pinch off and Blow pin? **(b)** 07 What are the factors affecting Transfer moulding process? **Q.4** (a) 07 **(b)** Write short notes on: 1. Bulk factor and 2. Blow up ratio 07 OR What are the types of calendar rolls? Explain which arrangement is suitable for **Q.4** (a) 07 material? What is the difference between Transfer and Compression moulding? **(b) 07** Q.5 Explain injection molding. Explain the process with neat sketch along with 07 advantages and disadvantages? Explain Troubleshooting in calendaring process? 07 **(b)** OR Define Preform? Explain advantages and disadvantages of using preform? 07 Q.5 Explain extrusion molding. Explain the process with neat sketch along with **07** advantages and disadvantages? *******
