

GUJARAT TECHNOLOGICAL UNIVERSITY**BE – SEMESTER V • EXAMINATION – WINTER - 2012****Subject code: 152304****Date: 23-01-2013****Subject Name: Plastic Processing & Machinery (Institute Elective-II)****Time: 02:30 pm to 05:00 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) Compare: Compression Molding with Transfer Molding **07**
(b) List & Explain Process Steps of Compression Molding with suitable sketch. **07**

- Q.2** (a) Explain about factors to be considered while selecting the plastics processing techniques. **07**
(b) Explain: Semi Positive Compression Mold with neat sketch **07**
OR
(b) Explain: Positive Compression Mold with neat sketch **07**

- Q.3** (a) List & Explain Process variables of Transfer Molding. **07**
(b) Explain Plunger type Transfer Molding Process with neat sketch. **07**

OR

- Q.3** (a) Explain: HIPS/ Acrylic are the best material for Thermoforming process. **07**
(b) List Process steps of Thermoforming. Explain Heating & Cooling Steps. Also List Advantages & Disadvantages of Thermoforming. **07**

- Q.4** (a) Explain: Plug Assist forming Process With neat sketch. **07**
(b) List the Types of Forming Process. Explain Straight Forming with neat sketch. **07**

OR

- Q.4** (a) Explain: (I) Parison Programming **07**
(II) Injection Blow Molding
Q.4 (b) Compare: Stretch Blow Molding with Extrusion Blow Molding **07**

- Q.5** (a) Classify Blow Molding Process. Explain Intermittent Extrusion Blow molding with neat sketch. **07**
(b) Draw Line diagram of Reciprocating Screw type Injection Molding machine & Label its various parts. List & Explain process steps in brief for Injection molding process. **07**

OR

- Q.5** (a) Explain Calendaring Process with neat line Diagram. **07**
(b) List advantages & disadvantages of Reactive Injection Molding Process. **07**
