

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**Diploma Engineering - SEMESTER-VI • EXAMINATION – SUMMER • 2014**

**Subject Code: 362303**

**Date: 28-05-2014**

**Subject Name: Rotational, Blow Molding and Thermoforming Process**

**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.
4. English version is considered to be Authentic.

- Q.1** (a) List the advantages & disadvantages of Blow Molding Process. **07**  
(b) Discuss requirements of material for Rotational Molding Process. **07**
- Q.2** (a) Give applications of Thermoforming Process. **07**  
(b) Write the basic principle of Blow Molding. Explain Extrusion Blow Molding. **07**  
OR
- (b) Explain steps for Stretch Blow Molding Process. **07**
- Q.3** (a) Write short note on “Neck Ring Process”. **07**  
(b) List the advantages & disadvantages of Rotational Molding Process. **07**  
OR
- Q.3** (a) List any three problems with its causes & remedies which arise during Blow Molding Process. **07**  
(b) Write short note on “Carousel type Machine”. **07**
- Q.4** (a) Explain Parison Programming for Extrusion Blow Molding. **07**  
(b) Explain heating & cooling of mould for Rotational Molding Process. **07**  
OR
- Q.4** (a) List the methods for Parison Inflation and explain Needle Inflation Technique. **07**  
(b) Discuss process variables of Rotational Molding Process. **07**
- Q.5** (a) Explain various stages of Thermoforming Process. **07**  
(b) Explain Female Drap Forming Technique with neat sketches. **07**  
OR
- Q.5** (a) Write any three problems arise in Thermoforming Process with its causes & remedies. **07**  
(b) List various types of Thermoforming Machines. Explain any one. **07**

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