

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
DIPLOMA ENGINEERING – SEMESTER – VI• EXAMINATION – SUMMER 2016

Subject Code: 362303

Date: 16/05/2016

Subject Name: Rotational Blow and Thermoforming Process

Time: 10:30 AM to 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. Use of programmable & Communication aids are strictly prohibited.
5. Use of only simple calculator is permitted in Mathematics.
6. English version is authentic.

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|-------------|---|-----------|
| Q.1 | (a) Write the basic principle of Blow Molding. Explain Extrusion Blow Molding. | 07 |
| | (b) Explain process steps for Rotational Molding process. | 07 |
| Q.2 | (a) Write the applications of Thermoforming process. | 07 |
| | (b) Explain Injection Stretch Blow Molding process steps. | 07 |
| | OR | |
| | (b) Discuss requirements of material for Rotational Molding process. | 07 |
| Q.3 | (a) Explain importance of parison programming in Extrusion Blow Molding. | 07 |
| | (b) Explain various stages of Thermoforming Process. | 07 |
| | OR | |
| Q.3 | (a) List the parison inflation methods and explain any one. | 07 |
| | (b) Write short note on “Rock & Roll Machine”. | 07 |
| Q.4 | (a) Explain female drape forming technique with neat sketches. | 07 |
| | (b) Write short note on “Drape Process for Blow Molding”. | 07 |
| | OR | |
| Q. 4 | (a) Write any three problems in Blow Molding process with its causes & remedies. | 07 |
| | (b) List various types of Thermoforming Machines. Explain any one. | 07 |
| Q.5 | (a) Explain heating & cooling of mould for Rotational Molding process. | 07 |
| | (b) List advantages & disadvantages of Blow Molding process. | 07 |
| | OR | |
| Q.5 | (a) Discuss process variables for Rotational Molding process. | 07 |
| | (b) Write any three problems arise in Thermoforming process with its causes & remedies. | 07 |
