

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
Diploma Engineering - SEMESTER-VI • EXAMINATION – WINTER 2013

Subject Code: 362303

Date: 03-12-2013

Subject Name: Rotational, Blow Moulding 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.

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|------|--|----|
| Q.1 | (a) Explain extrusion blow molding process. | 07 |
| | (b) Explain process steps of rotational molding process. | 07 |
| Q.2 | (a) Write advantages and disadvantages of thermoforming process. | 07 |
| | (b) Explain role of parison programming in blow molding process. | 07 |
| | OR | |
| | (b) Define stretch blow molding process? Explain stretch blow molding process with sketch. | 07 |
| Q.3 | (a) Compare extrusion blow molding process with injection blow molding process. | 07 |
| | (b) List various types of rotational molding machine and explain any one in detail. | 07 |
| | OR | |
| Q.3 | (a) Give applications of blow molding process. | 07 |
| | (b) Write any three defects of rotational molding product with its causes and remedies. | 07 |
| Q.4 | (a) Write in detail about heating and cooling techniques of roto mold. | 07 |
| | (b) Explain any one vacuum forming process. | 07 |
| | OR | |
| Q. 4 | (a) Explain any one pressure forming process. | 07 |
| | (b) Write in detail about roto mold material requirements. | 07 |
| Q.5 | (a) Explain various stages of thermoforming process. | 07 |
| | (b) Write trouble shooting guide for any three problems of thermoforming process. | 07 |
| | OR | |
| Q.5 | (a) Explain process variables of thermoforming process. | 07 |
| | (b) Write in short about in “line sheet fed machine” used for thermoforming process. | 07 |
