

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**DIPLOMA ENGINEERING – SEMESTER –IV • EXAMINATION – SUMMER 2016**

**Subject Code: 342304****Date: 28-11-2016****Subject Name: PROCESSING OF THERMOSETS****Time: 2.30 PM TO 5.00 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Each question carry equal marks (14 marks)

- Q.1** (a) Explain various stages of compression molding process. **07**  
(b) Explain interrelation of bulk factor and powder well. **07**
- Q.2** (a) State various types compression molds and explain semi-positive mold with neat sketch. **07**  
(b) List various process variables of compression molding process and explain any four. **07**
- OR
- (b) Draw line diagram of compression molding machine and label different parts. **07**
- Q.3** (a) Which are factors to be considered for selection of materials for transfer molding? List types of materials. **07**  
(b) Differentiate pot transfer and plunger transfer. **07**
- OR
- Q.3** (a) State advantages, disadvantages and applications of transfer molding. **07**  
(b) Explain various stages of transfer molding process with neat sketch. **07**
- Q.4** (a) Explain various characteristics of injection molding machine for thermosets. **07**  
(b) Compare transfer molding and injection molding of thermosets. **07**
- OR
- Q.4** (a) Explain molds for injection molding of thermosets. **07**  
(b) Explain injection molding process steps for thermosets. **07**
- Q.5** (a) Explain various process variables affecting compression molding. **07**  
(b) Compare transfer molds and compression molds. **07**
- OR
- Q.5** (a) State and explain various types of heaters use in compression molds. **07**  
(b) State and explain various causes and remedies for injection molded product defects. **07**

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