Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE – SEMESTER – IV– EXAMINATION – SUMMER - 2015

Subject Code: 142301 **Date: 05/06/2015**

Subject Name: Basic Plastic Processing and Thermal Engineering

Time: 10.30am-01.00pm **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)**	What is Compression Molding? Explain the Process with Neat Sketch along with Advantages & Disadvantages.	**07**
	(b)	Give the Principle of Pot Transfer Molding. Provide the Difference between Pot & Plunger Transfer Molding.	**07**
Q.2	**(a)**	Which are the Materials uses for Thermoforming? Explain Two Processes of Straight Thermoforming.	**07**
	(b)	What is Bulk Factor? What is Preforms & explain with Advantages & Disadvantages.	**07**
		OR	
	(b)	Explain Injection Blow Molding Process with Advantages & Disadvantages.	**07**
Q.3	**(a)**	Provide Comparison of Injection Blow Molding & Extrusion Blow Molding.	**07**
	(b)	Explain the Types of Compression Molds in details.	**07**
		OR	
Q.3	**(a)**	Classify the Heat Exchangers and Explain any One of them.	**07**
	(b)	Explain Temperature Correction Factor f and its Importance.	**07**
Q.4	**(a)**	Explain the Factors that Affect Compression Molding Process.	**07**
	(b)	What is Plastic Processing? Explain various Processing Methods for Thermoplastic & Thermoset.	**07**
		OR	
Q.4	**(a)**	What is Stretch Blow Molding Process? Why it is used? Explain with Advantages & Disadvantages.	**07**
	(b)	Provide detail Comparison between Transfer Molding & Compression Molding Process.	**07**
Q.5	**(a)**	What is Trouble Shooting? Explain Six Trouble Shootings for Compression Molding.	**07**
	(b)	What is Extrusion Blow Molding? Classify Extrusion Blow Molding. Explain any One in detail.	**07**
		OR	
Q.5	**(a)**	Explain Free Forming, Mechanical Forming & Matched Die Forming.	**07**
	(b)	Explain Plunger Transfer Molding with Neat Sketch.	**07**

****