Seat No.:	Enrolment No

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII • EXAMINATION - WINTER • 2014

Su	bjec	t Code: 172301 Date: 25-11-201	4	
Subject Name: Advance Plastics Processing Time: 10:30 am - 01:00 pm Instructions:		10:30 am - 01:00 pm Total Marks: 7	Total Marks: 70	
	2	Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a)	What is basic principle of Calendaring process? List and Explain various steps of Calendaring process with neat sketch.	07	
	(b)	Define Casting. List and Explain various steps involved in manufacturing product by casing process using unsaturated Polyester resin as a basic raw material.	07	
Q.2	(a) (b)	Define Dip molding. Explain Dip molding and Slush molding process. List the various techniques are available for finishing and machining of plastics. Explain any two.	07 07	
	(3.)	OR	۰.	
	(b)	Explain about Reaction Injection Molding process with neat sketch.	07	
Q.3	(a) (b)	Define and Explain Encapsulation Process with its application. (1) List the advantages and dis-advantages of RIM. (2) List the application of semi-rigid foam and rigid foam.	07 04 03	
Q.3	(a) (b)	OR Explain manufacturing process of Flexible foam product using PU as raw material with neat sketch. Explain about Ribbon Blender with neat sketch.	07 07	
Q.4	(a)	Define (1) Initiator (2) Inhibitor (3) Foam plastics (4) K factor (5) Blowing agent (6) Compression set (7) Coating	07	
	(b)	Draw Line diagram of three layer film manufacturing for milk pouch and Explain it. OR	07	
Q.4	(a)	Explain Electrostatic fluidized bed method with neat sketch. List advantages of Polymer coating over other coatings.	07	
	(b)	Explain about different types of roll arrangement for Calendaring process.	07	
Q.5	(a)	What is the purpose of Decorating of plastics? List the various methods used for the decorating of plastics product. Explain In-Mold decorating method.	07	
	(b)	Explain Hot stamping process with neat sketch. OR	07	
Q.5	(a)	Compare: (1) Vacuum Metallizing with Electroplating (2) Rotational Molding with Extrusion Blow Molding.	07	
	(b)	Explain Rotational Molding process with neat sketch.	07	
