## GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-V EXAMINATION – WINTER 2015

Subject Code: 153405Date:14/12/2015Subject Name: Plastics Manufacturing Technology			
Tiı	me: 1	10:30am to 1:00pm Total Marks: 70	
<ol> <li>Instructions:         <ol> <li>Attempt all questions.</li> <li>Make suitable assumptions wherever necessary.</li> <li>Figures to the right indicate full marks.</li> </ol> </li> </ol>			
Q.1	(a) (b)	Explain Extrusion Blow Molding Process with neat sketch. Define: Plastics Processing Techniques. Which are the selection criteria for choosing a particular processing method?	07 07
Q.2	(a) (b)	Compare :Thermoplastics Injection Molding with Thermoset Injection Molding List the general processing methods use for Thermosets. Explain Transfer molding Process with neat sketch.	07 07
	(b)	<b>OR</b> List and Explain material characteristics required for the thermoforming process.	07
Q.3	(a) (b)	Explain : (1) L/D ratio (2) Compression ratio (3) Blow up ratio Explain the principle of Extrusion. Write about the classification of extruders.	07 07
Q.3	(a) (b)	<b>OR</b> Compare: Twin screw extruders with Single screw extruder. Explain Stretch Blow Molding process in detail.	07 07
Q.4	(a) (b)	Explain : (1) Straight forming (2) Drape forming Write down merits and demerits of Compression Molding Process.	07 07
Q.4	(a) (b)	<b>OR</b> What is parison programming? Explain about it in detail. Explain multi-layer film plant with neat sketch.	07 07
Q.5	(a) (b)	Write down the startup and shutdown procedure of Extrusion molding. Draw generalized Screw used for Injection molding. Explain any three terminologies related to it.	07 07
Q.5	(a) (b)	<b>OR</b> Explain the types of mold used in compression molding with diagram Explain the process of injection molding with neat and detailed diagram	07 07

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