

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VI (NEW) EXAMINATION – WINTER 2018****Subject Code:2163407****Date:27/11/2018****Subject Name:Plastic Manufacturing Technology****Time: 02:30 PM TO 05:00 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

		MARKS
Q.1	(a) Define Plastic Processing Techniques.	03
	(b) Define Weld line, flash & Warpage.	04
	(c) Compare :Thermoplastics Injection Molding with Thermoset Injection Molding Process.	07
Q.2	(a) Define Shot capacity & Injection Pressure.	03
	(b) Define back pressure ,Suck back & Drooling.	04
	(c) Explain the function of clamping system & its types.	07
	OR	
	(c) Write short on Injection Mould.	07
Q.3	(a) Explain compression moulding Process with neat sketch.	03
	(b) Explain the types of mold used in compression molding with diagram.	04
	(c) Write comparison b/w compression & transfer moulding process.	07
	OR	
Q.3	(a) Explain about tie layer.	03
	(b) Explain screw nomenclature with neat diagram.	04
	(c) Explain faults, causes and remedies of transfer moulded article	07
Q.4	(a) What is L/D ratio and compression ratio.	03
	(b) Explain the function screen pack & breaker plate.	04
	(c) Write short note on types of dies used in extrusion.	07
	OR	
Q.4	(a) Differentiate b/w single stage & two stage blow moulding process.	03
	(b) Differentiate b/w single screw & twin screw extruder.	04
	(c) Explain the manufacturing process of RPVC pipe with line diagram.	07
Q.5	(a) Write short note on multilayer blow moulding process.	03
	(b) Write short note on pinch-off in blow moulding process.	04
	(c) What is stretch Blow Molding Process? Why it is used? Explain with advantages & disadvantages.	07
	OR	
Q.5	(a) Explain the principle of thermoforming process.	03
	(b) Discuss matched die forming.	04
	(c) What is drape forming? Give the advantages of pressure forming over vacuum forming.	07
