Seat No.:	Enrolment No.

## GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI (New) • EXAMINATION - SUMMER 2016 Subject Code:2163407 Date: 17/05/2016 **Subject Name: Plastics Manufacturing Technology** Time: 10.30 am to 01.00 pm **Total Marks: 70 Instructions:** 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. Give in detail about the types of processing techniques and the selection criteria **Q.1** 07 (a) for the processing methods. Explain about thermoset injection moulding process, parts and their respective 07 **(b)** functions with a neat sketch. Explain Extrusion Blow Molding Process with neat sketch 07 0.2 (a) Explain the working of compression moulding process with neat sketch **(b)** 07 **(b)** What is the principle of transfer moulding? Explain the plunger type transfer 07 moulding with neat sketch. Draw generalized Screw used for Injection molding. Explain any three 0.3 07 (a) terminologies related to it. What is Injection Molding? Explain Process steps with line diagram along with **(b)** 07 advantages & disadvantages OR Explain faults, causes and remedies of transfer moulded article 0.3 07 (a) What is stretch Blow Molding Process? Why it is used? Explain with advantages 07 **(b)** & disadvantages **Q.4** (a) Explain pressure forming process with neat sketch. List out difference between **07** Pressure & Vacuum Forming Explain multi-layer film plant with neat sketch **07 (b) Q.4** (a) Discuss the plug assist thermoforming process with applications. 07 Explain vented barrel extruder operation with a neat sketch along with its 07 **(b)** applications Explain Plunger type Transfer Molding with neat sketch Q.5 07 (a) With a neat sketch diagram explain the various types of clamping systems 07 **(b)** OR Discuss various types of moulds used for compression moulding process. Q.5 **07** (a) What is parison programming? Explain about it in detail 07 **(b)** 

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