

GUJARAT TECHNOLOGICAL UNIVERSITY
BE SEMESTER - V EXAMINATION – WINTER 2013

Subject Code: 153405**Date: 09-12-2013****Subject Name: Plastic Manufacturing Technology****Time: 10:30 am – 01:00 pm****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) Write down the startup and shutdown procedure of injection molding **07**
(b) Explain briefly about different types of screws used in injection molding machine **07**
- Q.2** (a) Explain the process of injection molding with neat and detailed diagram **07**
(b) Explain any six faults and remedies in injection molding with neat sketch **07**
- OR**
- (b) Explain the different types of clamping system with neat sketch **07**
- Q.3** (a) Explain process and moulding types of compression molding briefly with diagram **07**
(b) Explain transfer moulding briefly with a neat sketch also explain the advantages and disadvantages **07**
- OR**
- Q.3** (a) Compare compression moulding and transfer molding **07**
(b) Explain the types of mold used in transfer molding with diagram **07**
- Q.4** (a) What is extrusion. Explain process with simple sketch **07**
(b) What are all the factors to be maintained while carrying out extrusion operations and why? **07**
- OR**
- Q.4** (a) Explain extrusion blow molding with neat sketch **07**
(b) Explain stretch blow molding with neat sketch **07**
- Q.5** (a) Explain general process of blow molding as a step by step process with neat sketch **07**
(b) Explain pressure back forming, vacuum forming, and matched die forming with neat sketch **07**
- OR**
- Q.5** (a) Explain drape forming, free forming, and general thermoforming process with neat sketch **07**
(b) Explain hand injection molding briefly with neat sketch **07**
