

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**BE- SEMESTER– VI• EXAMINATION – SUMMER 2015**

**Subject Code: 163606****Date: 14/05/2015****Subject Name: Compounding & Processing of Plastics & Rubbers- II****Time: 10.30AM-01.00PM****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) How is DMC, SMC different from conventional compression molding? **07**  
(b) Write a short note on Injection molding. **07**
- Q.2** (a) Explain the advantages of nano particle in polymers. **07**  
(b) Explain Gas Assisted Injection Molding process. **07**
- OR**
- (b) Explain the causes and remedies of and three problem faced in GAIM **07**
- Q.3** (a) Write a short note on manufacturing of fiber tanks. **07**  
(b) Differentiate between any two Metallization techniques of Plastic **07**
- OR**
- Q.3** (a) Write a short note on Electroplating on plastics. **07**  
(b) Write a short note on any three types Printing process. **07**
- Q.4** (a) Explain the various layers of packaging films. **07**  
(b) Write a short note on Pultrusion process and explain the die temp. **07**
- OR**
- Q.4** (a) What are the various ways of compounding? Explain anyone in detail. **07**  
(b) Explain the recycling process using depolymerization, using example of one polymer in detail. **07**
- Q.5** (a) Differentiate between plastic, rubber and fiber. **07**  
(b) Explain the process of manufacturing rubber hoses. **07**
- OR**
- Q.5** (a) Explain briefly any three characteristics of packaging films **07**  
(b) Explain why Permeability is important in packaging. **07**

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