

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VI • EXAMINATION – SUMMER • 2014****Subject Code: 163606****Date: 28-05-2014****Subject Name: Compounding and Processing of Plastics and Rubbers- II****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 a short note on Blends and alloys of polymers. **07**
(b) Write a short note on Injection molding. **07**
- Q.2** (a) Explain the causes and remedies of and three problem faced in Injection Molding **07**
(b) Explain the causes and remedies of and three problem faced in RIM **07**
OR
(b) Explain the causes and remedies of and three problem faced in GAIM **07**
- Q.3** (a) Write a short note on FRPs. **07**
(b) Explain the Post extrusion techniques of Metallization of Plastic **07**
OR
- Q.3** (a) Write a short note on Electroplating on plastics. **07**
(b) Write a short note on Printing on plastics. **07**
- Q.4** (a) Explain the various characteristics of packaging films. **07**
(b) Write a short note on Pull winding with diagram. **07**
OR
- Q.4** (a) Write a note on compounding of rubbers. **07**
(b) Define role of ingredients in rubber compounding. **07**
- Q.5** (a) Write a detailed note on the de polymerization. **07**
(b) Write a note on the Conventional, Semi Efficient and Efficient Sulphur vulcanization. **07**
OR
- Q.5** (a) Write a detailed note on peroxide vulcanization. Compare it with Sulphur vulcanization. **07**
(b) Write a general compound recipe and processing parameters for making one of the following **07**
a) Shoe sole
b) Hose
c) Mat
