

GUJARAT TECHNOLOGICAL UNIVERSITY
DIPLOMA ENGINEERING – SEMESTER – III EXAMINATION – SUMMER 2015

Subject Code: 332304**Date: 14/05/2015****Subject Name: PLASTICS MATERIALS****Time: 02:30 PM TO 05:00 PM****Total Marks: 70****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Each question carry equal marks (14 marks)

- Q.1** (a) Define Rheology. State various types of material flows and explain them with corresponding graphs. **07**
(b) List various additives used in plastics. Explain the roll of plasticizers in detail. **07**
- Q.2** (a) Write Properties and Applications of PVC. **07**
(b) Why Maxwell model is used for plastics? Explain it with neat sketch. **07**
OR
(b) List various equipments used for compounding of plastics. Explain any one with labeled sketch. **07**
- Q.3** (a) Write properties and applications of SAN. **07**
(b) Discuss properties and applications of Epoxy. **07**
OR
- Q.3** (a) Write Properties and Applications of HDPE. **07**
(b) Discuss properties and applications of MF. **07**
- Q.4** (a) Write Properties and Applications of PC. **07**
(b) Discuss Properties and Applications of PES. **07**
OR
- Q.4** (a) Write Properties and Applications of Poly Acetals. **07**
(b) Discuss Properties and Applications of PEEK. **07**
- Q.5** (a) Write Properties and Applications of PP. **07**
(b) Discuss Properties and Applications of PTFE. **07**
OR
- Q.5** (a) Write Properties and Applications of PF. **07**
(b) Discuss Properties and Applications of PPO. **07**
