

GUJARAT TECHNOLOGICAL UNIVERSITY**Diploma Engineering - SEMESTER-III • EXAMINATION – SUMMER • 2014****Subject Code: 332304****Date: 21-06-2014****Subject Name: Plastics Materials****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.
4. English version is considered to be Authentic.

- Q.1** (a) Write properties and applications of PP. **07**
(b) Define rheology. Explain various types of material flow with related graphs. **07**
- Q.2** (a) Discuss properties and application of Polyamides. **07**
(b) List various compounding methods for plastics and explain any one in detail. **07**
OR
(b) List various additives used in plastics. Explain lubricants in detail with example. **07**
- Q.3** (a) Write properties and applications of GPPS. **07**
(b) Write properties and epoxy resin. **07**
OR
- Q.3** (a) Discuss properties and application of PVC. **07**
(b) Discuss properties and application of PF. **07**
- Q.4** (a) Write properties and applications of PSO **07**
(b) Discuss properties and application of PTFE. **07**
OR
- Q. 4** (a) Discuss properties and application of PEEK **07**
(b) Write properties and application of PC. **07**
- Q.5** (a) Write properties and applications of PPO. **07**
(b) Explain Maxwell model. **07**
OR
- Q.5** (a) Discuss properties and applications of PE. **07**
(b) Suggest suitable Plastics material for the following products. **07**
1) Display boards 2) fountain pen 3) wrist watch gear 4) helmet
5) mobile phone body 6) flooring 7) refuse sack
