

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

Diploma Engineering - SEMESTER-III • EXAMINATION – WINTER 2013

Subject Code: 332304

Date: 04-12-2013

Subject Name: Plastics Materials

Time: 02:30 pm - 05:00 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.

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|-------------|--|-----------|
| Q.1 | (a) Define rheology. Explain various types of flow in brief. | 07 |
| | (b) Suggest proper plastics material for Telephone, Wire cable, Woven sacks, Blood transfusion tubes, Nonstick cook-wear, Bearing, Disposable cup. | 07 |
| Q.2 | (a) Write basic properties and applications of PVC. | 07 |
| | (b) Explain properties of ABS in detail. | 07 |
| | OR | |
| | (b) Write applications of PMMA. | 07 |
| Q.3 | (a) Write applications and properties of Epoxy. | 07 |
| | (b) Give applications of DAP. | 07 |
| | OR | |
| Q.3 | (a) Give applications and properties of UF. | 07 |
| | (b) Write properties of PUR. | 07 |
| Q.4 | (a) List the properties and applications of PTFE. | 07 |
| | (b) Explain properties of PC. | 07 |
| | OR | |
| Q. 4 | (a) Give applications of Nylon 6. | 07 |
| | (b) Write short note on, "Polyesters". | 07 |
| Q.5 | (a) List various high performance and heat resistant plastics and write applications of PPO. | 07 |
| | (b) Write properties of PEEK. | 07 |
| | OR | |
| Q.5 | (a) Write short note on, "Twin screw extruder". | 07 |
| | (b) Define fillers. Write types of filler and explain it in brief. | 07 |
