

Seat No.: _____
No. _____

Enrolment

GUJARAT TECHNOLOGICAL UNIVERSITY

Diploma Engineering - SEMESTER-III • EXAMINATION – SUMMER • 2014

Subject Code: 3332304

Date: 21-06-2014

Subject Name: Plastic Materials - I

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.

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|-------------|--|-----------|
| Q.1 | (a) Define rheology. Explain various types of material flows with example. | 07 |
| | (b) Discuss properties and applications of POM. | 07 |
| Q.2 | (a) Write properties and applications of Cellulosics. | 07 |
| | (b) With neat sketch, explain the banbury mixer. | 07 |
| | OR | |
| | (b) Explain the construction and working of two roll mills with sketch. | 07 |
| Q.3 | (a) Discuss properties and applications of UF. | 07 |
| | (b) Write properties and applications of ABS. | 07 |
| | OR | |
| Q.3 | (a) Discuss properties and applications of polyesters. | 07 |
| | (b) Write properties and applications of PMMA. | 07 |
| Q.4 | (a) Discuss properties and applications of PPS. | 07 |
| | (b) Write properties and applications of polycarbonates. | 07 |
| | OR | |
| Q. 4 | (a) Discuss properties and applications of PEK | 07 |
| | (b) Write properties and applications of PPO. | 07 |
| Q.5 | (a) Discuss properties and applications of PVAc. | 07 |
| | (b) Write properties and applications of silicon resins. | 07 |
| Q.5 | (a) Discuss properties and applications of PVC | 07 |
| | (b) Make a list of additives used in plastics. Explain fillers. | 07 |
