

Seat No.: _____

Enrolment No.: _____

GUJARAT TECHNOLOGICAL UNIVERSITY
DIPLOMA ENGINEERING – SEMESTER – III EXAMINATION – SUMMER 2016

Subject Code: 332304

Date: 24 -05 -2016

Subject Name: Plastics Materials

Time: 02:30 PM TO 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. Each question carry equal marks (14 marks)

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|-------------|--|-----------|
| Q.1 | (a) Write properties and applications of PE. | 07 |
| | (b) Explain properties and applications of UF. | 07 |
| Q.2 | (a) Discuss properties and application of Polyamides. | 07 |
| | (b) Which compounding methods are used for plastics? List them and explain two roll mill with neat sketch. | 07 |
| | OR | |
| | (b) List various additives used in plastics. Explain plasticizers in detail with example. | 07 |
| Q.3 | (a) Write properties and applications of ABS. | 07 |
| | (b) Write properties and Silicone resins. | 07 |
| | OR | |
| Q.3 | (a) Discuss properties and application of PMMA. | 07 |
| | (b) Discuss properties and application of PF. | 07 |
| Q.4 | (a) Write properties and applications of PPS | 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 CN. | 07 |
| | (b) Define Rheology. Explain various types of material flow with related graphs. | 07 |
