

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

M.E. SEMESTER III-EXAMINATION – WINTER 2015

Subject code: 2732404

Date: 04/12/2015

Subject Name: Plastics Testing Technology

Time: 2:30 PM to 5:00 PM

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) What is Testing? Discuss types of tests. Discuss the tensile test in detail. **07**
(b) Discuss Identification of plastics by various methods. **07**
- Q.2** (a) Discuss types of Impact tests. **07**
(b) Which test is recommended to study the flowability of Thermoplastics materials? Discuss **07**
- OR**
- (b) What are Weathering Tests? Discuss ESCR Test in detail **07**
- Q.3** (a) Discuss density measurement tests **07**
(b) What is HDT Test? Discuss in detail. **07**
- OR**
- Q.3** (a) Microstructure of Plastics is studied using which equipments? Discuss **07**
(b) Discuss Dielectric Strength test. **07**
- Q.4** (a) What is a MFI Test ? Discuss in detail. **07**
(b) Discuss in detail Creep Tests **07**
- OR**
- Q.4** (a) What is ARC Resistance? Discuss how it is measured **07**
Q.4 (b) Discuss Refractive Index Test **07**
- Q.5** (a) What tests are performed for Plastic Pipes? Discuss in detail **07**
(b) Discuss Marten's heat resistance test **07**
- Q.5** (a) Discuss Colour measurement test **07**
(b) Discuss Spectroscopy tests. **07**
