

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

Diploma Engineering - SEMESTER-VI • EXAMINATION – WINTER • 2016

Subject Code: 362302

Date: 21-10-2016

Subject Name: Testing and Quality Management

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) Define testing. Explain the importance of testing. **07**
(b) Define HDT. Explain the ASTM procedure for measuring HDT. **07**
- Q.2** (a) Draw neat sketch of Tensile test specimen. Explain ASTM procedure for measuring Tensile strength. **07**
(b) Define Hardness. Explain the ASTM procedure for Rockwell Hardness. **07**
- OR
- (b) Explain ASTM procedure Izod impact strength test with neat sketch. **07**
- Q.3** (a) Define Dielectric strength. Explain ASTM procedure for measuring Dielectric strength. **07**
(b) Explain procedure for measuring MFI with neat sketch of its apparatus. **07**
- OR
- Q.3** (a) Write short note on Cup flow test. **07**
(b) Explain factors affecting HDT test result. **07**
- Q.4** (a) What is ESCR? Explain procedure for measuring ESCR. **07**
(b) Explain various types of failure. **07**
- OR
- Q.4** (a) Explain raw material quality control. **07**
(b) Write advantages of S.Q.C. **07**
- Q.5** (a) List various optical properties. Explain procedure for measuring any one of them. **07**
(b) List various organizations dealing with quality management and explain any one of them. **07**
- OR
- Q.5** (a) Write short note on Arc resistance. **07**
(b) Define conditioning. Give importance of conditioning. **07**
