

GUJARAT TECHNOLOGICAL UNIVERSITY**Diploma Engineering - SEMESTER-VI • EXAMINATION – SUMMER 2013****Subject Code: 362302****Date: 13/05/2013****Subject Name: Testing and Quality Management****Time: 10:30 am TO 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”. Describe importance of Testing. **07**
(b) Draw neat sketch of specimen and apparatus for Izod impact strength test. **07**
Write procedure for Izod impact strength test.
- Q.2** (a) Define: (1) Abrasion resistance (2) Hardness. Write test procedure for any one of them. **07**
(b) Define:(1) Specification (2) Standard. Describe any one of them. **07**
OR
(b) Draw neat sketch of Tensile strength test specimen. Write test procedure for tensile strength test. **07**
- Q.3** (a) Describe factors affecting HDT test results. **07**
(b) Define HDT. Write test procedure for HDT with neat sketch of its apparatus. **07**
OR
- Q.3** (a) Write short note on “Arc resistance test”. **07**
(b) Define Dielectric strength. Write test procedure for dielectric strength with neat sketch of its apparatus. **07**
- Q.4** (a) Write advantages of S.Q.C.. **07**
(b) Write brief note on Quality assurance manual. **07**
OR
- Q.4** (a) Draw neat sketch of MFI test apparatus. Write MFI test procedure. **07**
(b) Draw neat sketch of ESCR test apparatus. Write test procedure for ESCR. **07**
- Q.5** (a) List various types of failures. Explain them in brief. **07**
(b) Write short note on raw material quality control. **07**
OR
- Q.5** (a) Define:(1) Light transmittance (2) Gloss. Write test procedure for any one of them. **07**
(b) Write full form of :(1) B.I.S. (2) A.S.T.M. (3) I.S.O.. Write brief note on any one of them. **07**
