

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

# GUJARAT TECHNOLOGICAL UNIVERSITY

DIPLOMA ENGG.- VI<sup>th</sup> SEMESTER-EXAMINATION – MAY/JUNE- 2012

Subject code: 362302

Date: 28/05/2012

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. What is the importance of testing ? **07**  
(b) Draw neat sketch of izod impact test specimen and test apparatus. **07**
- Q.2** (a) Define conditioning. Give reasons for conditioning. **07**  
(b) Write a brief note on 'creep and stress relaxation'. **07**
- OR**
- Q.3** (b) Explain procedure for Rockwell hardness test with neat sketch. **07**  
(a) Explain vicat softening test with neat sketch. **07**  
(b) Explain factors affecting HDT test. **07**
- OR**
- Q.3** (a) Explain HDT test with neat sketch. **07**  
(b) Explain Dielectric strength test with neat sketch. **07**
- Q.4** (a) Explain procedure for MFI test with neat sketch of apparatus. **07**  
(b) Explain procedure for ESCR test with neat sketch of apparatus. **07**
- OR**
- Q.4** (a) Write short note on 'raw material quality control'. **07**  
(b) List advantages of S.Q.C. **07**
- Q.5** (a) Explain types of failure. **07**  
(b) (A) Define: (1) Haze (2) Gloss (3) Light transmittance (4) Abrasion resistance **04**  
(B) Give full form of: (1) ASTM (2) ISO (3) BIS **03**
- OR**
- Q.5** (a) Write a brief note on 'spiral flow test'. **07**  
(b) Write the procedure for S.Q.C. **07**

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