

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**BE - SEMESTER-VII • EXAMINATION – SUMMER • 2014**

**Subject Code: 173102****Date: 31-05-2014****Subject Name: Software Testing and Quality****Time: 02:30 pm - 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.

- Q.1** (a) What is Testing? Briefly Explain the Test Levels of Testing 7  
(b) Explain development & testing phases in the V model 7

- Q.2** (a) Differentiate white box & black box testing 7  
(b) Define software quality. List and explain FIVE views of quality. 7

OR

- Q.2** (b) Briefly Explain the Static unit testing 7

- Q.3** (a) What is Control Flow Graph (CFG)? Explain symbols used in CFG with example. 7  
(b) What is Domain Error? List and explain types of domain error. 7

OR

- Q.3** (a) Explain incremental approach for the system integration techniques. 7  
(b) List and explain three approaches to debugging by myers 7

- Q.4** (a) Briefly Explain Mc call's quality Factors. 7  
(b) Define following terms : (1) Verification (2) Validation 7

OR

- Q.4** (a) Discuss On and OFF data points near domain boundaries 7  
(b) Write short note on: 1. Pairwise Testing 2. Beta Testing 7

- Q.5** (a) Define following terms: Failure, Error, Faults, Defect 7  
(b) Discuss the advantages and disadvantages of Top down and bottom up approaches to Integration Testing. 7

OR

- Q.5** (a) Define Inspection and Walkthrough in unit testing 7  
(b) Briefly Explain the Requirement Identification 7

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