

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**MCA INTEGRATED- SEMESTER - VII EXAMINATION- SUMMER-2023**

**Subject Code: 4470631**  
**Subject Name: Software Testing**  
**Time: 02:30 PM TO 05:00 PM**

**Date: 23/06/2023**  
**Total Marks: 70**

**Instructions:**

1. Attempt all questions.
2. Make Suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Use of simple calculators and non-programmable scientific calculators are permitted.

- Q.1 (a) Answer Following[Any Seven] 07**
1. Define: Software Testing
  2. Write a Full Form of UAT
  3. What do you mean by Acceptance Testing?
  4. Write full form of TDD.
  5. Difference between Validation and verification.
  6. Write a full form of TFS.
  7. Write a full form of MTBF/MTTR.
  8. What is Test Case?
- (b) Define Testing. Give the difference between Inspection, Structural walkthrough and Technical Reviews. 07**
- Q.2 (a) Describe in detail about software testing life cycle. 07**
- (b) Give the difference between White Box testing and Black Box testing. 07**
- OR**
- (b) Explain Sanity and Smoke testing in detail. 07**
- Q.3 (a) Explain in detail about Performance Testing, Installation Testing & Regression Testing. 07**
- (b) List validation activities. Discuss in details unit testing, integration testing and system testing 07**
- OR**
- Q.3 (a) Explain Defect density and Residual defect density. 07**
- (b) Write a short note on ODC. 07**
- Q.4 (a) Explain Adhoc and COTs testing in detail. 07**
- (b) Write a short note on critical path first. 07**
- OR**
- Q.4 (a) Explain Kanban Model in details. 07**
- (b) Write a short note on SCRUM 07**
- Q.5 (a) What are the roles and responsibilities of Tester? 07**
- (b) Provide detail guidelines for writing test case in a better way. 07**
- OR**
- Q.5 (a) Discuss the advantages and disadvantages of automated computerized testing 07**
- (b) What is a CASE tool? What is the contribution of case tools to software maintenance quality and improved project management 07**

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