

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA– SEMESTER - II EXAMINATION- SUMMER-2023

Subject Code: 629406**Date: 14/07/2023****Subject Name: Software Testing****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. Use of simple calculators and non-programmable scientific calculators are permitted.

- Q.1 (a)** Answer the following questions. **07**
1. Define Test Case.
 2. What is Software Fault?
 3. List out the component of software.
 4. What is different between validation and Verification?
 5. What kind of responsibility of software tester?
 6. What is Glass box testing?
 7. Identify two major software risk items.
- (b)** Different between software quality assurance vs software quality control. **07**
- Q.2 (a)** Discuss between bottoms-up and top-down testing strategies in details. **07**
- (b)** Explain the difference between procedure and work instructions. **07**
- OR**
- (b)** Explain classification of the causes of software errors. **07**
- Q.3 (a)** What is automation testing? List the main type of automated software test and discuss it. **07**
- (b)** Describe the tasks performed by the head of the SQA unit. **07**
- OR**
- Q.3 (a)** Describe the concept of black box testing and white box testing, and discuss their advantages and disadvantages. **07**
- (b)** Explain Issues of controlled document storage and retrieval. **07**
- Q.4 (a)** Explain the two contract review stages and identify the difficulties in performing a major contract review. **07**
- (b)** Explain elements of the development plan & quality plan. **07**
- OR**
- Q.4 (a)** Explain the implementation of alpha site and beta site test and discuss their advantages and disadvantages. **07**
- (b)** Explain direct and indirect objectives of the review methodologies. **07**
- Q.5 (a)** Explain Development plans and quality plans for internal projects. **07**
- (b)** Explain structure of McCall's classic factor model. **07**
- OR**
- Q.5 (a)** Describe the various software development models in details. **07**
- (b)** Explain Corrective and preventive action process. **07**