

**III B. Tech II Semester Supplementary Examinations, April - 2021**  
**SOFTWARE TESTING METHODOLOGIES**

(Common to Computer Science and Engineering, Information Technology)

Time: 3 hours

Max. Marks: 70

- Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)  
 2. Answer **ALL** the question in **Part-A**  
 3. Answer any **FOUR** Questions from **Part-B**
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**PART -A****(14 Marks)**

1. a) Differentiate Error from Fault. [2M]
- b) Define Dicing. [2M]
- c) Explain the term Ugly domain. [2M]
- d) Differentiate partial ordering from total ordering. [3M]
- e) Define logic based testing. [3M]
- f) List some of the testing tools. [2M]

**PART -B****(56 Marks)**

2. a) Explain test case and test suite by considering a program to calculate factorial of a number. [7M]
- b) Draw the control flow graph for the program to calculate GCD of two numbers. [7M]
3. a) Demonstrate data flow anomaly state graph with suitable example. [7M]
- b) Describe Data Flow Graphs with an example program. [7M]
4. a) Trace the steps of reduction procedure with an example. [10M]
- b) Explain the strategies of Interface testing. [4M]
5. a) How to Interpret decision table for test case design? Illustrate. [7M]
- b) Write the step by step procedure for syntax testing. [7M]
6. a) Explain the properties of an equivalence relation. [7M]
- b) Discuss the limitations and extensions of state graph with respect to state testing. [7M]
7. a) Explain types of software testing tools based on their analysis. [7M]
- b) How a Rapid Script Wizard is going to work? How it is different from JMeter? [7M]

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