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10CS842

**Eighth Semester B.E. Degree Examination, Feb./Mar. 2022**

**Software Testing**

Time: 3 hrs.

Max. Marks: 100

*Note: Answer any FIVE full questions, selecting at least TWO questions from each part.*

**PART - A**

- 1 a. Discuss the types of test metrics used in software testing in detail. (12 Marks)  
b. Define software quality and explain the different measures of software quality. (08 Marks)
- 2 a. Explain the elements of static testing. (06 Marks)  
b. Briefly discuss the defect management system. (08 Marks)  
c. Define basic block, flow graph and path. (06 Marks)
- 3 a. What is category partition method? With diagram, explain the different steps in category partition method. (12 Marks)  
b. Explain with an example, the process of boundary value analysis. (08 Marks)
- 4 a. Define cause effect graph. Write a procedure for generating a decision table from cause effect graph. (10 Marks)  
b. Explain in detail about predicate-testing criteria. (10 Marks)

**PART - B**

- 5 a. Write detail notes on procedure call testing. (08 Marks)  
b. Explain condition testing and statement testing criteria. (12 Marks)
- 6 a. Define the various data flow testing criteria. (12 Marks)  
b. Explain the data flow analysis with arrays and pointers. (08 Marks)
- 7 a. With reference to test execution, explain the concept of scaffolding and test oracles. (10 Marks)  
b. Define the different testing terms used in the construction of test specifications and test cases. (10 Marks)
- 8 a. Describe the dependability properties in detail. (10 Marks)  
b. Compare the features of system, acceptance and regression testing. (06 Marks)  
c. List any four integration faults with example. (04 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.



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