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07MCA552

Fifth Semester MCA Degree Examination, December 2010
Software Testing

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

- 1 a. Explain testing and debugging. (06 Marks)
b. Describe model based testing and model checking. (05 Marks)
c. What is saturation effect? (05 Marks)
d. Distinguish between static quality and dynamic quality attributes. (04 Marks)
- 2 a. Explain equivalence class partitioning in fault targeted. (04 Marks)
b. Write short notes on :
i) Fault model for predicate testing (08 Marks)
ii) Predicate constraints. (08 Marks)
c. What are errors at the boundaries? Write the procedure for BVA, with example. (08 Marks)
- 3 a. Explain systematic procedure for equivalence partitioning. (05 Marks)
b. Explain the different steps in the generation of tests using the category partition method. (05 Marks)
c. Write short notes on :
i) Equivalence classes for variables. (10 Marks)
ii) Unidimensional versus multidimensional partitioning.
- 4 a. Explain quality goals in detail. (04 Marks)
b. Explain relation among dependability properties. (08 Marks)
c. Explain data flow analysis. (08 Marks)
- 5 a. Describe the following structural testing :
i) Statement testing ; ii) Condition testing. (10 Marks)
b. What is comparing criteria in test case selection and adequacy? (05 Marks)
c. What is interprocedural analysis? (05 Marks)
- 6 a. What is definition - use associations? (05 Marks)
b. Describe data flow testing criteria. (10 Marks)
c. What is procedure call testing? (05 Marks)
- 7 a. Explain generic versus specific scaffolding. (10 Marks)
b. What are test oracles? (05 Marks)
c. What are self checks as oracles? (05 Marks)
- 8 a. Explain system testing and acceptance testing. (10 Marks)
b. Describe integration testing strategies. (10 Marks)

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