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10IS65

Sixth Semester B.E. Degree Examination, Dec.2019/Jan.2020

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. Distinguish between errors, faults and failures. (06 Marks)
b. Compare the different identification methods of functional test case and list advantages of functional test cases. (06 Marks)
c. Explain briefly the generalized pseudocode. (08 Marks)
- 2 a. Explain the different forms of worst-case test cases for a function of two variables with a neat diagram for each of them. (08 Marks)
b. Discuss the different types of equivalence class testing with a neat diagram for each of them. (12 Marks)
- 3 a. Discuss the different forms of metric based testing. (10 Marks)
b. Explain the McCabe's basis path method with a neat diagram. (10 Marks)
- 4 a. Explain briefly the specification based life cycle models. (10 Marks)
b. Explain briefly the decomposition based integration. (10 Marks)

PART – B

- 5 a. Discuss the basic concepts for requirements specification. (08 Marks)
b. Discuss the different types of interactions. (12 Marks)
- 6 a. Describe the sensitivity principle with an example. (10 Marks)
b. Discuss the properties of dependability. (05 Marks)
c. Explain briefly visibility and observability principles. (05 Marks)
- 7 a. Describe with an example the fault based Adequacy criteria. (10 Marks)
b. Distinguish between Generic Scaffolding and Specific Scaffolding. (10 Marks)
- 8 a. Describe SRET (Software Reliability Engineered Testing) with a neat diagram. (10 Marks)
b. Write short notes on the following:
i) Test design specification documents
ii) Test and analysis reports. (10 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.