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10IS65

Sixth Semester B.E. Degree Examination, Dec.2017/Jan.2018
Software Testing

Time: 3 hrs.

Max. Marks:100

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

PART - A

- 1 a. Explain basic definitions in perspective on testing. (10 Marks)
b. Define two fundamental approaches that are used to identify the test cases. (10 Marks)
- 2 a. Define the following:
(i) Boundary value analysis.
(ii) Generalizing Boundary value analysis.
(iii) Limitations of boundary value analysis.
(iv) Robustness testing. (10 Marks)
b. Develop a decision table for "second try" at the NextDate function. At the end of a 31-day month, the day is always reset to 1. For all non-December month, the month is incremented; for December, the month is reset to January and the year is incremented. (10 Marks)
- 3 a. Explain metric based testing. (10 Marks)
b. Define Use testing. (05 Marks)
c. Define slice-based testing. (05 Marks)
- 4 a. Explain alternative life-cycle models. (10 Marks)
b. Explain decomposition-based integration. (10 Marks)

PART - B

- 5 a. Explain basic concepts for requirements specification. (10 Marks)
b. Explain different functional strategies for thread testing. (10 Marks)
- 6 a. With neat diagram, explain the validation and verification in software testing. (10 Marks)
b. Explain the following:
(i) Redundancy.
(ii) Restriction.
(iii) Partition.
(iv) Visibility. (10 Marks)
- 7 a. Explain fault based adequacy criteria. (05 Marks)
b. Explain self-checks as oracles? (05 Marks)
c. Explain the following:
(i) From test case specification to test cases.
(ii) Scaffolding. (10 Marks)
- 8 Write a short note:
a. Quality and process.
b. Test and analysis plans.
c. Risk planning.
d. Test and analysis reports. (20 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.