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By K B Hemanth Raj

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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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