

# VTU B.E/B.TECH QUESTION PAPER SET

## CBCS SEMESTER VI

# SOFTWARE TESTING

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15IS63

## Sixth Semester B.E. Degree Examination, June/July 2018

### Software Testing

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing ONE full question from each module.

#### Module-1

- 1 a. Define the following : i) Error ii) Fault iii) Failure iv) Test v) Reliability  
vi) Usability vii) Correctness viii) Performance. (08 Marks)
- b. Explain structured implementation of triangle problem with a neat dataflow diagram. (08 Marks)

OR

- 2 a. Explain testing and debugging with a neat diagram. (08 Marks)
- b. Explain functional and structural testing. (08 Marks)

#### Module-2

- 3 a. Explain boundary value analysis. Mention its limitations. Derive BVA testcases for triangle problem. (08 Marks)
- b. Briefly explain the variants of equivalence class testing. Derive equivalence class testcases for next date problem. (08 Marks)

OR

- 4 a. Explain the format of decision table. Build decision table for simple version of triangle problem. (08 Marks)
- b. Explain fault based testing with its terminologies and assumptions. (08 Marks)

#### Module-3

- 5 a. Write a note on : i) Statement testing ii) Branch testing. (08 Marks)
- b. What is DD-path? Explain basis path testing with suitable example. (08 Marks)

OR

- 6 a. What is the use of dataflow testing? List and define various terms in define-use testing. (08 Marks)
- b. Explain scaffolding. Differentiate between generic and specific scaffolding. (08 Marks)

#### Module-4

- 7 a. Write a note on: i) Sensitivity ii) Redundancy iii) Partition iv) Feedback. (08 Marks)
- b. Explain dependability properties. (08 Marks)

OR

- 8 a. Explain risk planning with different types of risks. (08 Marks)
- b. Write a short note on a standard organization of an analysis and test plan. (08 Marks)

#### Module-5

- 9 a. Explain : i) Acceptance testing ii) Usability testing. (08 Marks)
- b. Explain decomposition based integration testing. (08 Marks)

OR

- 10 a. Explain call graph based integration testing. (08 Marks)
- b. Explain the context diagram of SATM system. (08 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 or identification, appear or is perceived to appear, on question papers, shall be treated as malpractice.