

CBCS SCHEME

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15IS63

Sixth Semester B.E. Degree Examination, Dec.2018/Jan.2019

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 Software quality. Explain the different measures of software quality. (06 Marks)
- b. Explain the perspective testing definitions of the following: i) Errors ii) Fault
iii) Failure iv) Incident v) Test vi) Test case.
Draw the flow diagram of a testing life cycle. (08 Marks)
- c. Consider the following ;
Requirement 1 : It is required to write a program that inputs two integers and outputs the maximum of these. (02 Marks)
Comment on its completeness.

OR

- 2 a. With the help of a test and debug cycle diagram, explain testing and debugging process. (08 Marks)
- b. Write pseudo-code for NextDate problem (simple version). (04 Marks)
- c. Explain the elements walk through and inspection of static testing. (04 Marks)

Module-2

- 3 a. With example, explain about boundary value analysis and mention its limitations. (04 Marks)
- b. Write Equivalence class test cases for the commission problem. (06 Marks)
- c. Explain the fault-based adequacy criteria. (06 Marks)

OR

- 4 a. Explain test cases for the triangle problem with respect to decision table based testing. (08 Marks)
- b. With a neat diagram, explain about i) Robustness testing ii) Worst case testing. (04 Marks)
- c. Explain Mutation analysis terminologies. (04 Marks)

Module-3

- 5 a. Explain about du - path test coverage metrics with dataflow diagram. (08 Marks)
- b. Explain in brief about : Scaffolding and Test Oracles. (08 Marks)

OR

- 6 a. Explain McCabe's basis Path method. (08 Marks)
- b. Explain about slice based testing in a dataflow testing by taking commission problem. (08 Marks)

Module-4

- 7 a. Explain the following :
i) Sensitivity ii) Redundancy iii) Visibility iv) Partition. (08 Marks)
- b. Briefly explain test design specification documents. (08 Marks)

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OR

- 8 a. Discuss the dependability properties. (08 Marks)
b. List and explain the different types of Risk planning. (08 Marks)

Module-5

- 9 a. Explain about client / server testing with respect to interacting testing. (08 Marks)
b. Explain about decomposition based integration with respect to integration testing. (08 Marks)

OR

- 10 a. Compare System , Acceptance and Regression testing. (08 Marks)
b. Draw the display screens of both Simple Automatic Teller Machine (SATM) terminal and built with fifteen screens for the SATM system. (08 Marks)

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