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CBCS Scheme

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15CS552

Fifth Semester B.E. Degree Examination, Dec.2017/Jan.2018
Introduction to Software Testing

Time: 3 hrs. Max. Marks: 80

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

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.

Module-1

1 a. Explain Testing and Debugging cycle with a diagram. **(08 Marks)**
b. What are errors? Explain Software quality in detail. **(08 Marks)**

OR

2 a. Explain Levels of testing with a neat diagram. **(08 Marks)**
b. Explain Functional Testing and structural Testing. **(08 Marks)**

Module-2

3 a. Write a Pseudo code for structured programming version of triangle programme. **(08 Marks)**
b. List and explain equivalence class Testing with diagram. **(08 Marks)**

OR

4 a. Explain Boundary value analysis and Robustness Testing. **(08 Marks)**
b. What are Decision Tables? Draw the Decision Table for Triangle problem. **(08 Marks)**

Module-3

5 a. Explain Fault Based Adequacy Criteria. **(08 Marks)**
b. Explain mutation Analysis Terminologies. **(08 Marks)**

OR

6 a. Explain in brief :
i) Statement Testing ii) Branch Testing. **(08 Marks)**
b. Explain McCabe's Basis path method. **(08 Marks)**

Module-4

7 a. Define scaffolding. Explain Generic versus specific scaffolding. **(08 Marks)**
b. Define: i) Sensitivity ii) Restriction iii) Partition iv) Visibility. **(08 Marks)**

OR

8 a. Explain the following :
i) Risk Planning ii) Monitoring the process. **(08 Marks)**
b. Explain the following:
i) Quality Goals ii) Dependability properties. **(08 Marks)**

Module-5

9 a. Explain the following :
i) Usability ii) Regression testing **(08 Marks)**
b. Explain the upper level SATM Finite state machine. **(08 Marks)**

OR

10 a. Explain the path based integration testing. **(08 Marks)**
b. Explain call graph based integration. **(08 Marks)**

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