

# CBCS SCHEME

USN

--	--	--	--	--	--	--	--	--	--

15CS552

## Fifth Semester B.E. Degree Examination, June/July 2018 Introduction to 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. Explain software testing and indentifying test cases. (08 Marks)  
b. Explain necessity of Venn diagram during testing. (08 Marks)

OR

- 2 a. Explain levels of testing with a neat diagram. (08 Marks)  
b. List and explain important error and fault taxonomies. (08 Marks)

### Module-2

- 3 a. Write a pseudo code for structured programming version of triangle programme. (08 Marks)  
b. With a neat diagram, explain the ATM system. (08 Marks)

OR

- 4 a. Explain equivalence class testing and robustness testing. (08 Marks)  
b. What are decision tables? Explain decision tables guidelines and observations. (08 Marks)

### Module-3

- 5 a. Explain assumptions in fault based testing. (08 Marks)  
b. Explain mutation analysis terminologies. (08 Marks)

OR

- 6 a. Explain the basis path testing. (08 Marks)  
b. Explain slice-based testing. (08 Marks)

### Module-4

- 7 a. Define scaffolding. Explain generic versus specific scaffolding. (08 Marks)  
b. Explain the basic principles of process framework. (08 Marks)

OR

- 8 a. Explain the following : i) Dependability properties ii) Organizational factors. (08 Marks)  
b. What is process? Explain how to improve the process. (08 Marks)

### Module-5

- 9 a. Explain integration testing strategies. (08 Marks)  
b. List and explain regression test selection techniques. (08 Marks)

OR

- 10 a. Explain the following : i) Acceptance testing ii) System testing. (08 Marks)  
b. Explain the path based integration testing. (08 Marks)

\* \* \* \* \*

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.