CBCS Scheme

USN ☐☐☐☐☐☐☐☐☐☐

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.

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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