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Code No. : 42521A

**VASAVI COLLEGE OF ENGINEERING (Autonomous), HYDERABAD**  
**B.E. (I.T.) IV Year II-Semester Main Examinations, May-2019**

**Software Testing**

Time: 3 hours

Max. Marks: 70

*Note: Answer ALL questions in Part-A and any FIVE from Part-B*

Q.No.	Stem of the question	M	L	CO	PO
<b>Part-A (10 × 2 = 20 Marks)</b>					
1.	Differentiate between effective and exhaustive software testing.	2	2	1	1
2.	Differentiate between verification and validation.	2	2	1	2
3.	List various components of a decision table.	2	2	2	1
4.	What is loop testing? Explain.	2	2	2	1
5.	What is smoke testing? Explain.	2	2	3	2
6.	Define system test plan and acceptance test plan.	2	1	3	2
7.	Differentiate between conventional testing and object oriented testing?	2	2	4	1
8.	What is web engineering?	2	1	4	2
9.	What is the need for using testing tools to test a system?	2	2	5	2
10.	Mention two uses of JMeter.	2	2	5	1
<b>Part-B (5 × 10 = 50 Marks)</b>					
11. a)	Describe the bug life cycle with the help of a diagram.	5	1	1	2
b)	Explain the testing techniques used for code verification.	5	3	1	2
12. a)	A program reads an integer number within the range [1,100] and determines whether it is a prime number or not. Design test cases for this program using Boundary Value Analysis, robust testing, and worst-case testing methods.	5	4	2	3
b)	What is cyclomatic complexity? Give an example.	5	3	2	1
13. a)	What is function point analysis? How is this metrics computed?	5	3	3	2
b)	Discuss the role of traceability matrix in designing test cases.	5	2	3	2
14. a)	Discuss the issues of inheritance testing.	4	1	4	2
b)	What will be the criteria for performing unit, integration and system testing of web applications?	6	2	3	2
15. a)	Explain how QTP is used for regression testing?	5	2	5	1
b)	Describe the applications of Load runner tool.	5	2	5	2

Contd...2

16. a) Explain test execution levels.	5	1	1	2
b) Explain Decision table based testing with the help of an example.	5	3	2	1
17. Answer any <i>two</i> of the following:				
a) What is Test Point Analysis (TPA)? How to do you compute TPA?	5	3	3	2
b) Discuss the levels of object oriented testing.	5	3	4	2
c) Classify and explain testing tools based on their applicability.	5	3	5	1

M: Marks; L: Bloom's Taxonomy Level.

S. No.	Criteria for questions	Percentage
1	Fundamental knowledge (Level-1 & 2)	60
2	Knowledge on application and analysis (Level-3 & 4)	40
3	*Critical thinking and ability to design (Level-5 & 6) (*wherever applicable)	Nil

