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VASAVI COLLEGE OF ENGINEERING (*Autonomous*), HYDERABAD
M.C.A. II Year I-Semester (Supplementary) Examinations, May-2016

Software Testing

Time: 3 hours

Max. Marks: 70

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

Part-A (10 × 2=20 Marks)

1. Write about Boundary value analysis.
2. What are the forms of equivalence class testing?
3. What is metric based testing.
4. Define integration testing? State why we perform integration testing.
5. What is system testing?
6. Write about client/server testing.
7. Write about UML based system testing.
8. Explain the implications of polymorphism in object oriented software testing.
9. What is a need for test automation?
10. What is model based testing.

Part-B (5 × 10 = 50 Marks)
(All bits carry equal marks)

11. a) Explain testing life cycle.
 b) What is meant by a software bug? Discuss in detail the consequences of bugs.
12. a) What is a program slice? Discuss about static and dynamic program slicing.
 b) What is meant by functional testing and structural testing? Discuss its differences.
13. a) Explain static interaction testing in a multiprocessor.
 b) Explain decomposition-based integration.
14. a) Explain the unit testing, integration testing and system testing for currency conversion program based on GUI testing.
 b) Explain the inheritance testing.
15. a) Explain in detail all pair testing.
 b) Explain the process model for automation.
16. a) Write about decision table based testing.
 b) Write short notes on retrospective functional testing.
 i) Testing effort ii) Testing efficiency
17. Write short notes on any *two* of the following:
 - a) Explain structural strategies for thread testing.
 - b) Explain method as units in class testing.
 - c) What are the skills needed for automation? Explain.