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Code No. : 244 O

VASAVI COLLEGE OF ENGINEERING (Autonomous), HYDERABAD
M.C.A. II Year I-Semester Backlog (Old) Examinations, December-2017
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 examples for Logic and Data faults.
- 2 Define Equivalence class. Write the equivalence classes R1, R2, R3, R4 for the Triangle problem.
- 3 What do you understand by C(M,S)?
- 4 Define a Program Graph.
- 5 What are the various levels of testing?
- 6 When is Integration testing done?
- 7 What is GUI testing?
- 8 Give illustrative examples for class inheritance and aggregation.
- 9 Enumerate the skills required for testing automation.
- 10 Define model-based testing.

Part-B (5 × 10 = 50 Marks)

11. a) Explain briefly about the Triangle problem used in software testing. [7]
b) Draw the trendline of test cases per testing method. [3]
12. a) Write briefly about slice based testing. [4]
b) Explain the McCabes basis path testing method with respect to the graph specified with the edges (E) :- E1:P→Q, E2:P→R, E3:Q→R, E4:Q→S, E5:S→G, E6:R→Q [6]
13. a) Differentiate between top down and bottom up integration with illustrations. [5]
b) Write about the functional strategies used for thread testing. [5]
14. a) What is UML-based system testing ? Explain. [5]
b) Write about the implications of Inheritance and Polymorphism in object oriented testing. [5]
15. a) How is software testing excellence achieved ? [5]
b) What are the generic requirements for a testing tool? Name a few testing tools. [5]
16. a) Explain the decision table testing with respect to an example system. [6]
b) Compare structural testing with functional testing. [4]
17. Answer any *two* of the following:
a) Compare Progression and Regression Testing. [5]
b) Write briefly about MM path for object oriented software. [5]
c) Discuss briefly about Exploratory Testing [5]