

Hall Ticket Number:

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Code No. : 33015 O2

VASAVI COLLEGE OF ENGINEERING (Autonomous), HYDERABAD
M.C.A. (CBCS) III-Semester Backlog (Old) Examinations, December-2018

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. Give an example for a test case
2. When and why is a decision table used in testing?
3. Define path testing?
4. Define a control graph.
5. Draw the waterfall life cycle model
6. When will interaction testing become necessary?
7. Define 'Unit' in the context of object oriented testing.
8. Draw a sample currency converter GUI.
9. List out the challenges faced in software testing automation.
10. List different forms of Millennium testing.

Part-B (5 × 10 = 50 Marks)

11. a) Explain the Next Date Function example system with the conditions C1,C2, C3. [6]
b) Write boundary value analysis test cases for a function F with two variables x, y. [4]
12. a) How is basis path testing done? Explain with respect to the graph specified with the edges (E):- E1:A→B, E2:A→D, E3:B→C, E4:B→G, E5:D→G, E6:C→B. [6]
b) When and how is data flow testing done? [4]
13. a) What are the pros and cons of top down and bottom up integrations? How does sandwich testing overcome the drawbacks? [6]
b) Write briefly about the taxonomy of interactions. [4]
14. a) Define MM-path for object oriented software? Give relevant example. [5]
b) Write about the implications of composition and encapsulation. [5]
15. a) Explain briefly about the architecture for testing automation. [5]
b) What is the methodology used in exploratory testing? [5]
16. a) Differentiate between weak and strong equivalence class testing. [5]
b) Explain how functional and structural testing is done with an example. [5]
17. Answer any *two* of the following:
a) Pairwise integration [5]
b) GUI testing [5]
c) Process model for testing automation. [5]