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P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belgaum)
Fifth Semester, Master of Computer Application
Semester End Examination; Dec. - 2015
Software Testing

Time: 3 hrs Max. Marks: 100

Note: Answer any *FIVE* full questions. 1 a. With the help of diagram, discuss the different components of testing life cycle. 10 b. Compare and contrast functional testing versus structural testing. 4 c. Modify the problem statement of triangle program and discuss in terms of considerations that 6 is required to include the right angle feature. 2 a. Explain the random test cases for both triangle program and commission program. 8 b. What guidelines needs to be followed when the equivalence class testing is applied to 7 different programs? c. Write a note on decision table-based testing. 5 3 a. With relevant diagrams, explain McCabe's Basis path method. 10 b. Discuss the slice-based testing for commission program. 10 4 a. Give an overview of specification-based life cycle models. 10 b. Write a note on: 10 i) Sink node ii) MM-path iii) Module-execution path iv) MM-Path graph 5 a. Explain in detail the functional strategies for thread testing. 12 b. Discuss the static interactions in a single and multiple processors environment. 8 6 a. Explain the following: 10 i) Quality goals ii) Planning and Monitoring b. Discuss the variation and validation process in testing. 10 7 a. Explain the fault-based adequacy criteria for a given program and a test suite. 10 b. Compare and contrast generic and specific scaffolding. 10 8 a. Write a note on: 8 i) Risk planning ii) Quality team. b. Briefly explain test & analysis strategies and plans. 6 c. List the guidelines for improving the overall process. 6