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MCA V Semester Supplementary Examinations July 2015

SOFTWARE TESTING

(For students admitted in 2009, 2010, 2011 and 2012 only)

Time: 3 hours

Max Marks: 60

Answer any FIVE questions

All questions carry equal marks

- 1 (a) Define testing. Explain the goals of testing.
 - (b) Differentiate testing and debugging.
- 2 (a) What are the different notations used in the control flow graph? Explain.
 - (b) What are the applications of path testing? Explain.
- 3 (a) Discuss about sensitization and instrumentation based on transaction flows.
 - (b) What is the motivation of dataflow testing? Explain.
- 4 (a) What are the advantages of domain testing? Explain.
 - (b) Explain simple domain boundaries and compound predicates.
- 5 (a) What is meant by path products? Explain with example.
 - (b) What are the techniques used to find the minimum number of paths in a graph? Explain with example.
- 6 (a) "Decision tables as a basis for test case design" explain.
 - (b) Minimize the following function using KV map: $F(A, B, C, D) = \Sigma(3, 4, 5, 6, 8, 9, 10, 11, 14) + d(7, 5)$
- 7 Write short note on following:
 - (a) Dead state.
 - (b) Unreachable state.
 - (c) Transition bugs.
- 8 (a) Write node reduction algorithm.
 - (b) What are relations? Give the properties of relations.
