

Code: 9F00502

MCA V Semester Supplementary Examinations May 2019

SOFTWARE TESTING

(For 2009, 2010, 2011, 2012 (LC), 2013, 2014, 2015 & 2016 admitted batches only)

Time: 3 hours

Max. Marks: 60

Answer any FIVE questions
All questions carry equal marks

- 1 (a) Differentiate between testing and debugging.
(b) Discuss in detail about various categories of bugs.
- 2 (a) What are the different criteria or strategies for path testing? Explain briefly.
(b) What is path instrumentation? Briefly explain the various types of path instrumentation methods.
- 3 (a) What are the different types of transaction flow junction points? Explain each in brief.
(b) Briefly explain about the various types of data flow testing strategies in decreasing order of their effectiveness.
- 4 (a) List out the different bugs that result in domain errors and also brief them.
(b) Briefly explain about domain and interface testing.
- 5 (a) Briefly discuss about the path products and the path sums with suitable examples.
(b) Explain briefly about the generic flow-anomaly detection problem.
- 6 (a) What are the different areas of decision tables? Define them and also give an example.
(b) Explain about Karnaugh-Veitch chart for Boolean functions of two and three variables.
- 7 (a) Define state graphs. Give an example. Also discuss how it is transformed into the form of state tables.
(b) Differentiate equivalent states, unreachable states and dead states in a state graph with suitable examples.
- 8 (a) Define cyclomatic complexity. How it is calculated for a graph? Give an example.
(b) Explain in detail about the node reduction algorithm for a graph.
