

END TERM EXAMINATION

FIFTH SEMESTER [MCA] DECEMBER 2007

Paper Code: MCA317

Subject: SOFTWARE TESTING

Time: 3Hours

Maximum Marks: 60

Note: Attempt all questions. Internal choice is indicated.

- Q.1** (a) Define Software testing
(b) Define Domain Testing
(c) What is the difference between error and fault?
(d) Define Integration Testing
(e) What are test cases?
(f) Define static testing.
(g) List dynamic testing tools.
(h) Define system testing.
(i) Why testing is hard?
(j) What is Graph?

- Q.2** What do you mean by testing process? How is it useful and implemented? What are its limitations? Explain in detail.

OR

What is graph theory? How is it useful in general and specially in testing? Explain in detail with Suitable examples.

- Q.3** Explain the following examples:-
(i) Decision Table Based Testing
(ii) Mutation Testing

OR

Write short notes on the following:-

- (i) Graph Metrics
(ii) Cyclomatic Complexity

- Q.4** Describe the following briefly:-
(i) Regression Testing
(ii) Slice Based Testing

OR

Write short notes on the following:-

- (i) Risk Analysis
(ii) Levels of Testing

- Q.5** What is object-oriented testing? How is it different from simple testing and GUI testing? Explain various issues involved in it with examples.

OR

Describe the following briefly:-

- (i) Class Testing
(ii) Characteristics of Modern Testing Tools.

- Q.6** (a) Justify the statement “System development is model building”.
- (b) Differentiate between implementation and test model of OO system. Take suitable examples.
- Q.7** (a) Explain object oriented life cycle model. Give a brief comparison of various life cycle models.
- (b) Compare object oriented software engineering and classical software engineering.