

Scheme – E
Sample Question Paper

Course Name : Diploma in Computer Engineering Group

Course Code : CO/CM/CD

Semester : Sixth for CO/CM and Seventh for CD

Subject Title : Software Testing

Marks : 100

12258

Time: 3 Hrs.

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Illustrate your answer with neat sketches wherever necessary.
4. Preferably, write the answers in sequential order.

Q.1a) Attempt any THREE of the following

12 Marks

- a) Explain Waterfall Model.
- b) Define bug? List four Software failure terms.
- c) Describe Equivalence Partitioning with example.
- d) State four essential element of formal review.

Q.1b) Attempt any ONE of the following

06 Marks

- a) List six traits of good software tester
- b) Explain three types of random testing

Q.2 Attempt any FOUR of the following

16 Marks

- a) What is static white box testing?
- b) Write a simple program in C demonstrating a boundary condition bug.
- c) What are characteristics of good UI?
- d) List four benefits of automation tool.
- e) Explain stubs and drivers with example.
- f) List four data reference errors.

Q.3 Attempt any FOUR of the following

16 Marks

- a) Differentiate between dynamic white box testing and debugging. (Any Four)
- b) What is the purpose of test design specification?
- c) State four Low –Level Specification techniques.
- d) Illustrate the impact of testing multiple version of application software.
- e) What is Web site Testing?

Q.4 a) Attempt any THREE of the following

12 Marks

- a) What are the goals of Test Case Planning?
- b) Explain Integration Testing Method with example.
- c) Explain Gray Box testing.
- d) What is difference between Translation and Localization?

Q.4b) Attempt any ONE of the following

06 Marks

- a) State rules of defining Formal Bug.
- b) Describe six steps for approaching the task of Configuration Testing.

Q.5 Attempt any TWO of the following

16 Marks

- a) Explain State Testing with State Transition Diagram.
- b) Describe three types of code coverage.
- c) Write eight Test Cases on ATM Machine in tabular form.

Q.6 Attempt any FOUR of the following

16 Marks

- a) What is backward and forward compatibility testing?
- b) Explain Capability Maturity Model (CMM).
- c) Explain Black Box Testing with diagram
- d) Write four test cases to test the “yahoo home page”.
- e) Give meanings of
 - i) Test to Pass
 - ii) Test to Fail