

**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.**

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**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