

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/
MANAGEMENT/COMMERCIAL PRACTICE, NOVEMBER - 2024**

SOFTWARE TESTING

[Maximum Marks:75]

[Time: 3 Hours]

PART - A

I. Answer all the following questions in one word or one sentence. Each question carries ‘one’ marks.

(9 x 1 = 9 Marks)

Module Outcome Cognitive level

1	List two types of dynamic testing.	M1.04	R
2	List the states of a bug	M1.02	R
3	Name the two types of classes can be identified in equivalence class partitioning.	M2.01	R
4	Calculate the number of test cases in BVC method, if there are 5 variables in a module?	M2.01	A
5	List any two types of static testing.	M3.01	R
6	The programmer or designer responsible for producing the program or document is known as	M3.01	U
7	A validation testing usually, done by the developers is	M3.02	U
8	Which method allow testers to navigate through different pages in Selenium.	M4.02	R
9	Name one load testing tool.	M4.02	R

PART - B

II. Answer any eight questions from the following. Each question carries ‘Three’ marks.

(8 x 3 = 24 Marks)

Module Outcome Cognitive level

1	Distinguish Failure, Fault and Error.	M1.01	U
2	List the classification of bugs based on SDLC.	M1.02	R
3	Describe the components of Decision table and its structure.	M2.03	U
4	Describe Equivalence Class testing method.	M2.02	U

5	Explain Logic Coverage Criteria.	M1.01	U
6	Distinguish Alpha testing and Beta testing.	M3.05	U
7	Write test cases for the following requirements. (Test case Number, Steps to execute the test cases, expected output and actual output are mandatory.) a) Login to the application with correct user id and correct password. b) Login to the application with incorrect user id and correct Password. c) Login to the application with incorrect user id and incorrect Password.	M3.07	A
8	Summarize the use of Stubs and Drivers in Unit Validation testing.	M3.02	U
9	Write short notes on any two commercial testing tools.	M4.03	A
10	Explain the need of automation testing tools	M4.01	U

PART - C

Answer all the questions from the following. Each question carries ‘seven’ marks.

(6 x 7 = 42 Marks)

Module Outcome Cognitive level

III.	Describe the long term and short term goals of software testing. OR	M1.01	U
IV.	Explain testing tactics.	M1.04	U
V.	Explain the phases of software testing life cycle(STLC). OR	M1.03	U
VI.	Explain the validation activities.	M1.04	U
VII.	Illustrate BVC and Robustness testing method with an example. OR	M2.01	A
VIII.	A program reads an integer number within the range [1,100] and determines whether it is a prime number or not. Design test cases for this program using BVC method.	M2.05	A
IX.	Explain regression testing techniques. OR	M3.06	U
X.	Explain top-down and bottom-up methods in integration testing.	M3.03	U
XI.	Demonstrate Inspection team with their roles. OR	M3.01	U
XII.	Explain the Categories of system testing.	M3.04	U
XIII.	Summarize basic browser navigation commands in Selenium. OR	M4.02	U
XIV.	Explain the issues in Object Oriented Testing.	M4.04	U
