DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/
COMMERCIAL PRACTICE –NOVEMBER -2021.

SOFTWARE TESTING

(Maximum Marks : 75)   [Time : 2.15 hours]

PART–A

Marks

I. Answer **any three** questions in one or two sentences. Each question carries 2 marks.

1. State the long term goals of software testing.

2. List two dynamic testing techniques.

3. State the purpose of testing tool Win Runner.

4. What is debugging.

5. Interpret the term FSM.   (3x2=6)

PART - B

II   Answer **any four** of the following questions . Each question carries 6 marks.

1. Explain how verification and validation of code is done.

2. Describe boundary value analysis of black box testing.

3. State the guidelines for automated testing.

4. Explain how to correct the bugs.

5. Describe state table based testing with an example.

6. Explain the open source testing tools-Cgreen, Emma and Findbugs.

7. Describe the process of debugging.   [4x6 =24]

PART - C

(Answer **any of the three units** from the following. Each full question carries 15 marks)

UNIT I

III   Explain Software Testing Lift Cycle (STLC) and different phases.   (15)

OR

IV   Explain software testing methodology.   (15)

UNIT- II

V   (a) State basis path testing.   (8)

   (b) Describe the need of white box testing.   (7)

OR

VI   Explain various static testing techniques.   (15)

UNIT- III

VII   Explain the categorization of testing tools.   (15)

OR

VIII (a) Describe how testing of web based systems are done.   (8)

   (b) State how object oriented testing is done.   (7)

UNIT – IV

IX   Explain different debugging techniques.   (15)

OR

X   Explain different debugging tools and different types of debuggers.   (15)

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