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(Revision-2015)

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Reg.No.....

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DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/ COMMERCIAL PRACTICE, NOVEMBER - 2022

SOFTWARE TESTING

[Maximum marks: 100] (Time: 3 Hours)

PART – A

Maximum marks : 10

I (Answer ***all*** the questions in one or two sentences. Each question carries 2 marks)

1. Define the term software testing.
2. Interpret the term FSM.
3. Name any two black box testing techniques.
4. List any four benefits of test automation.
5. Define debugging. (5 x 2 = 10)

PART – B

Maximum marks : 30

II (Answer any ***five*** of the following questions. Each question carries 6 marks)

1. Explain long term goals of software testing.
2. Describe V-testing model.
3. Explain Mutation testing process.
4. Differentiate Progressive Vs. Regressive testing.
5. List the guidelines for test automation.
6. Describe about **CUT** open source testing tool.
7. Write notes on Kernel Debugger. (5 x 6= 30)

PART – C

Maximum marks : 60

(Answer one full question from each unit. Each full question carries 15 marks)

UNIT –I

III. Explain software testing life cycle with block diagram. (15)

OR

IV. Describe software testing methodology. (15)

UNIT-II

V. (a) Explain different logic coverage criteria. (10)

(b) Describe about validation testing. (5)

OR

VI. Explain boundary value analysis with example. (15)

UNIT-III

VII. Describe about commercial testing tools. (15)

OR

VIII.(a) Explain Challenges of testing web-based software. (10)

(b) List issues in Object-oriented testing. (5)

UNIT-IV

IX. (a) Describe debugging process with diagram. (9)

(b) Explain how to correct the bugs. (6)

OR

X. Explain different debugging techniques. (15)

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