



TED (15) – 6136

Reg. No.....

(REVISION – 2015)

Signature .....

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/  
MANAGEMENT/COMMERCIAL PRACTICE — APRIL, 2019

SOFTWARE TESTING

[Time : 3 hours

(Maximum marks : 100)

PART — A

(Maximum marks : 10)

Marks

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

1. List two post-implementation goals of software testing.
2. Define State graph.
3. State any two need of technical reviews.
4. List any two open source testing tools.
5. Write the role of debuggers in software testing.

(5×2= 10)

PART — B

(Maximum marks : 30)

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

1. Explain the model for software testing process.
2. Explain the different goals of software testing.
3. Describe Decision table based testing.
4. Write various steps in acceptance testing. What is the significance of acceptance testing ?
5. Explain how testing of web based systems are done.
6. Describe the advantages of test automation.
7. Describe the process of debugging.

(5×6 = 30)

## PART — C

(Maximum marks : 60)

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

## UNIT — I

- III (a) Explain the model for software testing. 8  
 (b) Explain how verification and validation of code is done. 7

OR

- IV Describe the software testing life cycle and phases with a neat diagram. 15

## UNIT — II

- V (a) Describe the method of Error guessing. 8  
 (b) Describe the methods of code inspections. 7

OR

- VI (a) Differentiate between Progressive and Regression testing. 8  
 (b) State the objectives of regression testing. 7

## UNIT — III

- VII Discuss the guidelines to be followed while selecting a testing tool. 15

OR

- VIII Write short notes on the following open source testing tools :  
 (i) CUT (ii) Cgreen (iii) Emma (iv) Findbugs 15

## UNIT — IV

- IX (a) Explain the methods of bug tracking. 8  
 (b) Explain the methods for correcting the bugs. 7

OR

- X Explain different debugging tools. 15
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