

Printed Pages : 3



EIT062

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 113602

Roll No.

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B. Tech.

(SEM. VI) THEORY EXAMINATION, 2014-15

SOFTWARE TESTING

Time : 3 Hours]

[Total Marks : 100

Note : Attempt ALL questions.

1 Attempt any four parts of the following: **5×4=20**

- (a) What is testing? Differentiate between effective and exhaustive software testing.
- (b) Define the following terms:
Errors, faults and failures.
- (c) Differentiate between testing and debugging.
- (d) Why do bugs occur? How many states does a bug have?
- (e) What is software testing life cycle?
- (f) Write a note on test metrics and measurements.

- 2** Attempt any two parts of the following: **10×2=20**
- (a) Explain white-box testing. What are the types of errors detected by black-box testing?
 - (b) What is the objective of white-box testing? What is the significance of cyclomatic complexity?
 - (c) Write short notes on the following:
 - (i) Model based testing
 - (ii) Structural testing
- 3** Attempt any two parts of the following: **10×2=20**
- (a) What is the need of integration testing? Differentiate between top down and bottom up integration.
 - (b) Explain acceptance testing. What is the difference between system testing and acceptance testing?
 - (c) Write short notes on the following:
 - (i) Beta Testing
 - (ii) Scalability testing
- 4** Attempt any two parts of the following: **10×2=20**
- (a) How does regression testing help in producing quality software?
 - (b) Explain the following regression test selection techniques:
 - (i) Minimization
 - (ii) Dataflow
 - (iii) Ad hoc

- (c) Write short notes on the following:
 - (i) Iterative testing
 - (ii) Defect seeding

5 Write short notes on any four of the following: **5×4=20**

- (a) Test Planning
 - (b) Software Quality
 - (c) Test Management System
 - (d) Test Automation
 - (e) Software Maintenance
 - (f) Defect Management.
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