

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: $5 \times 4 = 20$

- (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.

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[Contd...

2 Attempt any two parts of the following: $10 \times 2 = 20$

- (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: $10 \times 2 = 20$

- (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: $10 \times 2 = 20$

- (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: $5 \times 4 = 20$

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