

B.C.A. PART—III (Semester-VI) Examination

SOFTWARE TESTING

Paper—6ST4

Time—Three Hours]

[Maximum Marks—60

- N.B. :—** (1) Assume suitable data wherever necessary.
(2) Illustrate your answers with the help of neat sketches, wherever necessary.

1. (a) What is Testing ? Explain basic principles of testing. 6
(b) Explain following phases of Software project :- 6
(i) Planning
(ii) Design
(iii) Development or coding.

OR

2. (a) What is verification ? How does it differ from validation ? Explain 6
(b) What is Software Quality Assurance ? Explain in detail. 6
3. (a) What is White box testing ? Explain the Classification of White box testing. 6
(b) Explain Code Complexity Testing. 6

OR

4. (a) Explain need and purpose of Black box testing. 6
 (b) Explain :- 6
 (i) Path coverage
 (ii) Function coverage
5. (a) Differentiate between functional system testing and nonfunctional system testing. 6
 (b) Explain :- 6
 (i) Stress Testing
 (ii) Interoperability testing

OR

6. (a) Explain Top Down and Bottom Up integration testing. 6
 (b) Why is system and acceptance Testing done ? Give reasons. 6
7. (a) Explain factors governing Performance testing. 6
 (b) Explain collecting requirements in performance testing. 6

OR

8. Explain following Methodologies of performance testing :
 (i) Automating Performance test case
 (ii) Executing Performance test case
 (iii) Analyzing Performance test case. 12
9. (a) Explain different types of Reports. 6
 (b) Explain Methodology for selecting the test cases for test execution in Regression testing. 6

OR

10. (a) Explain :- 6
 (i) Risk Management
 (ii) Communication Management.
 (b) Explain test case Specification of test Process. 6