

Question Paper Code : 6578

BCA (Third Year) (Semester-V) Examination, 2021

SOFTWARE TESTING METHODOLOGY

[Paper : BCA-5052]

Time : Three Hours]

[Maximum Marks : 70

Note : Attempt **any five** questions. All questions carry **equal** marks.

1. (a) Explain the principles of software testing and summarize the tester role in software development organization. [7x2=14]
- (b) Explain the difference between error, fault, failure and incident.
2. (a) Discuss in detail about formal technical reviews. [7x2=14]
- (b) What is Code Inspection. Explain.
3. (a) What is meant by program's control flow? How is it useful for path testing? [7x2=14]

- (b) What is meant by Review? What are the positive effects of review? Explain the steps involved in review.
4. (a) Explain Boundary value analysis testing technique with suitable example. How it differs from Equivalence class partitioning. [7x2=14]
- (b) With the help of an illustrative example, explain how decision table can be used for testing?
5. (a) What are the various limitations of Testing? [7x2=14]
- (b) How Integration testing is performed using Top Down Integration?
6. (a) Differentiate between Functional testing and Structural Testing. [7x2=14]
- (b) Explain DD-path with an example.
7. (a) Explain Regression testing and Extreme Testing. [7x2=14]
- (b) Give a brief account on System Testing.

8. (a) Compare Traditional Software Testing and Web based software Testing. [7x2=14]
- (b) Explain the various levels of testing in detail.
9. (a) How a Web content is tested ? Explain.[7x2=14]
- (b) How the test cases are derived from Use-case for testing object-oriented software ?
10. (a) Explain Class Testing. What are the various issues in Object Oriented Testing ? [7x2=14]
- (b) Discuss the importance of verification and validation in a project.

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