

PARUL UNIVERSITY
FACULTY OF IT & COMPUTER SCIENCE
BCA Winter 2019 – 20 Examination

Semester: 6
Subject Code: 05101382
Subject Name: Software Testing

Date: 10/12/2019
Time: 2:00 pm to 4:30 pm
Total Marks: 60

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

Q.1

A. Define the following. (05)

1. Software Testing
2. Path Testing
3. Inheritance
4. Regression Testing
5. Test Build

B. Multiple choice type questions/ Give the sentence true or false. (Each of 01 marks) (10)

1. Which one of the following testing is performed by the user?
 - a. Acceptance testing
 - b. Unit testing
 - c. Compatibility testing
 - d. None of these
2. Smoke testing is one of the shortest testing methods of software testing. [True/False]
3. Boundary value analysis belongs to?
 - a) White Box Testing
 - b) Black Box Testing
 - c) White Box & Black Box Testing
 - d) None of the mentioned
4. Which testing is concerned with behavior of whole product as per specified requirements?
 - a) Acceptance testing
 - b) Integration testing
 - c) System testing
 - d) Component testing
5. _____ testing attempts to show that the module does something that it is not supposed to do.
 - a. Positive
 - b. Negative
 - c. Smoke
 - d. Sanity
6. Which is not the state of bug in bug Life Cycle?
 - a) Verified
 - b) Deferred
 - c) Critical
 - d) Postponed
7. _____ Testing involves testing a system with a significant load extended over a significant period of time, to discover how the system behaves under sustained use.
 - a. Soak
 - b. capacity
 - c. volume
 - d. Sanity
8. Software tester should be involved very early during development phase of a project. (True or false)
 - a) True
 - b) false

9. Which is not a type of Incremental testing approach?

- a) Bottom up c) Big-bang
- b) Top down d) Functional incremenation

10. _____ refers to the amount of time that elapses between one failure and the next.

- a) MTBF c) MTTF
- b) MTTR d) Average time

Q.2 Answer the followings. (3 Marks Questions.) (Any Five) (15)

1. Write the advantages of Data Flow Testing.
2. State and explain the goal of Equivalence class testing.
3. Explain AU path and ADUP path giving example
4. What is Cyclomatic complexity?
5. Explain different types of Qualitative data
6. What are issues in testing of a Object Oriented class?

Q.3 Answer the following. (5 Marks Questions)(Any three) (15)

1. Compare and Contrast Functional and Non Functional testing.
2. State the limitation of Data Flow testing. Explain the different data objects used for testing.
3. Which testing is used to test the system which is formed merging more than 2 subsystems? Explain it. Also state its advantages and Disadvantages.
4. What are Stubs and Drivers? What is Functional Decomposition

Q.4 Answer the following in detail.

A. Write a Short note on Test Case. (05)

B.(1) Explain Object Oriented Integration Testing. (05)

B.(2) Explain the different software testing metrics. (05)

OR

B.(1) Explain TPI Model in detail with diagram. (05)

B.(2) Write a note on Performance Testing. (05)