

D 40096

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Name.....

Reg. No.....

SIXTH SEMESTER B.C.A. DEGREE EXAMINATION, MARCH/APRIL 2018

(CUCBCSS—UG)

BCA 6B 18 (E3)—SOFTWARE TESTING AND QUALITY ASSURANCE

Time : Three Hours

Maximum : 80 Marks

Part A

Answer all questions.

Each question carries 1 mark.

1. Testing Strategy should start at the _____ module level and expand towards the whole system.
2. Software validation is achieved through a series of _____ tests that demonstrate conformity with requirements.
3. _____ Testing focuses on the functional requirements of the software.
4. SQA stands for _____.
5. Acceptance testing must occur at the _____ of the development process.
6. Alpha testing is done by :
 - (a) Customer.
 - (b) Tester.
 - (c) Developer.
 - (d) All of the above.
7. Every design feature and its corresponding code is checked logically with every possible path execution in _____.
 - (a) Black-box testing.
 - (b) White-box testing.
 - (c) Testing tool.
 - (d) None of the above.
8. What is the relation between static and dynamic testing techniques ?
 - (a) Mutually Exclusive.
 - (b) Complementary.
 - (c) Independent.
 - (d) None.

Turn over

9. Equivalence class partitioning is related to :

- (a) Structural testing.
- (b) Black-box testing.
- (c) Mutation testing.
- (d) All of the above.

10. Which one is not a verification activity ?

- (a) Reviews.
- (b) Path testing.
- (c) Walkthrough.
- (d) Acceptance testing.

(10 × 1 = 10 marks)

Part B

Answer all questions.

Each question carries 2 marks.

- 11. What is the need of verification ?
- 12. What is testing ?
- 13. What is the difference between alpha and beta testing ?
- 14. What is regression number ?
- 15. What are the major activities of a testing group ?

(5 × 2 = 10 marks)

Part C

Answer any five questions.

Each question carries 4 marks.

- 16. Evaluate the benefits of Validation in a project.
- 17. How does testing help in producing quality software ?
- 18. Explain regression testing problem with an example.
- 19. What is the purpose of integration testing ? How is it done ?
- 20. Detailed description about testing tools.
- 21. Explain how to do acceptance testing and what is its use ?
- 22. Explain challenges in performance testing.
- 23. Define defect Bash.

(5 × 4 = 20 marks)

Part D

Answer any five questions.

Each question carries 8 marks.

24. What is the difference between system testing and acceptance testing ?
25. Describe White-box testing in detail.
26. Define Software testing. Give few generic characteristics to it.
27. Write a detailed description about testing tools.
28. What are the situations to perform regression testing ?
29. What is the difference between :
 - (a) Verification and Validation.
 - (b) Alpha and Beta testing.
30. Explain test planning and test management.
31. Define SQA. What is the role of an SQA group ?

(5 × 8 = 40 marks)