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Name:

Reg. No.....

SIXTH SEMESTER B.C.A. DEGREE EXAMINATION, APRIL 2020

(CUCBCSS-UG)

(Supplementary/Improvement)

CC15U BCA6 E03 - SOFTWARE TESTING AND QUALITY ASSURANCE

Computer Application – Elective

(2015, 2016 Admissions)

Time: Three Hours

Maximum: 80 Marks

PART A

Answer *all* questions. Each question carries 1 mark.

1. ETVX stands for _____
2. _____ is the set of metrics that tracks how the different activities of the project are progressing.
3. _____ represents the number of transactions serviced by the product per unit time.
4. A testing that requires enormous amount of resources to find out the maximum capability of the system parameters is called _____
5. Decision table comes under which type of testing.
 - a) White Box testing
 - b) Black Box Testing
 - c) Grey Box Testing
 - d) None of these
6. Test plan which covers the activities common for all plans is called _____
7. The testing which is done to make sure that the existing features are not affected by new features is known as _____
8. System testing only deal with functional requirements. Say True or False.
9. Write down the equation to calculate cyclomatic complexity.
10. A set of realistic user activities that are used for evaluating the product is known as _____

(10 x 1 = 10 Marks)

PART B (Short Answer Type)

Answer *all* questions. Each question carries 2 marks.

11. What is test case? How test cases are generated?
12. Explain V Model.
13. What is Performance Tuning?
14. Differentiate scalability testing and reliability testing.

15. What do you mean by system scenario?

(5 x 2 = 10 Marks)

PART C (Short Essay Type)

Answer any *five* questions. Each question carries 4 marks.

16. How to do Regression Testing?

17. What are the guidelines for selecting test cases for Acceptance Testing?

18. Describe about Defect Bash.

19. Explain how a test can be managed and executed?

20. Explain goals and key characteristics of Walkthrough and Inspection.

21. Briefly explain Project metrics.

22. Explain waterfall model with its advantages and disadvantages.

23. Discuss about different Phases of software project in detail.

(5 x 4 = 20 Marks)

PART D (Essay Type)

Answer any *five* questions. Each question carries 8 marks.

24. Explain the significance of quality assurance and quality control in software development.

25. Explain the various activities in test planning?

26. Explain:

a) Boundary Value Analysis

b) Equivalence Partitioning

27. Differentiate between functional and non-functional testing.

28. What is Performance Testing? What are the factors which governs Performance Testing?

29. Describe:

a) Prototyping Model

b) Spiral model

30. Write a note on different types of Integration Testing?

31. What is test reporting? What are the different types of test reports?

(5 x 8 = 40 Marks)
