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**Question Paper Code: 44202**

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2018

Fourth Semester

Computer Science and Engineering

14UCS402 - SOFTWARE TESTING

(Regulation 2014)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1. A \_\_\_\_\_ Specialist is trained as an engineer has knowledge of test related principles, processes, measurements, standards, plans, tools and methods and learns how to apply them to the testing tasks to be performed.
  - (a) Test
  - (b) Coding
  - (c) Design
  - (d) Maintenance
2. Test bed in software testing means
  - (a) Analyzing the result
  - (b) Requirements for testing
  - (c) Result documentation
  - (d) Result comparison
3. Decision table is a
  - (a) Data structure
  - (b) chart illustrating cause and effect of failure
  - (c) tool for error analysis
  - (d) testing package
4. CFG is used in
  - (a) path testing
  - (b) white box testing
  - (c) test case design
  - (d) evaluating adequacy criteria

5. Running the system under a live environment using Live data in order to find errors is known as
- (a) Acceptance testing                      (b) Beta testing  
(c) Alpha testing                               (d) System testing
6. Regression test is used for
- (a) Only for upgraded software from existing version  
(b) Only for newly created software version  
(c) Only for existing software version  
(d) None of these
7. \_\_\_\_\_ is a document that provides a framework or approach for achieving a set of goals.
- (a) Plan                      (b) Testing                      (c) Unit Testing                      (d) none of these
8. The Test incident report is also called as
- (a) Test report                                      (b) Problem report  
(c) Document report                               (d) Validity report
9. The main aim of milestones in the software testing is
- (a) Testing    (b) Casting  
(c) Estimation                                      (d) Scheduling
10. \_\_\_\_\_ is a group meeting whose purpose is to evaluate a software artifact or a set of software artifacts.
- (a) Review                      (b) Audit                      (c) Testing                      (d) Quality

PART - B (5 x 2 = 10 Marks)

11. Differentiate verification and validation.
12. Write the advantages of equivalence class partitioning testing method.
13. What are the objectives of configuration testing.
14. What is test log?
15. Differentiate between inspections and reviews.

PART - C (5 x 16 = 80 Marks)

16. (a) Explain the tester role in a software development organization. How he assures for quality of software in terms of test result? (16)

Or

- (b) Explain in detail about the various level of TMM and mention the different types of tasks performed in each level of TMM. (16)

17. (a) Explain equivalence class partitioning and boundary value analysis. (16)

Or

- (b) Write a quadratic equation program in any programming language and determine the outputs and draw the control flow graph and fits its Cyclomatic complexity. (16)

18. (a) Explain about the security testing in software testing. (16)

Or

- (b) A tester wants to test the online retail application system as whole module or entire application, explain in detail what are the different types of testing to be tested in this application? (16)

19. (a) Explain all the IEEE 829 listed test plan components in software testing. (16)

Or

- (b) Give the skills needed for a test specialist and steps in forming a test group. (16)

20. (a) Explain software configuration management in detail. (16)

Or

- (b) Write a detailed note on the components of review plans. (16)

