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**Question Paper Code: 41242**

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2017

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. Test Oracle in software testing is used to
  - (a) Determine whether test result is pass or fail
  - (b) Fix the result as pass
  - (c) Fix the result as optimum
  - (d) Masking the changes in the result
2. Test bed in software testing means
  - (a) Analyzing the result
  - (b) Requirements for testing
  - (c) Result documentation
  - (d) Result comparison
3. Which one of the following testing method is used for testing inner structure of the software?
  - (a) Regression testing
  - (b) White box testing
  - (c) Unit testing
  - (d) Black box testing
4. Equivalence class partitioning can be strengthened by
  - (a) Boundary value analysis
  - (b) Error limitation analysis
  - (c) Time limitation analysis
  - (d) Cost limitation analysis

5. Which one of the following is not a type of system test?
- (a) Security test (b) Recovery test  
(c) Reliability test (d) Availability test
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. Work Breakdown Structure (WBS) has \_\_\_\_\_ representation.
- (a) Linear (b) Loop (c) Tree (d) Circle
8. COCOMO model is used for
- (a) Testing new project (b) Upgrade existing projects  
(c) Planning non existing projects (d) Documentation
9. The main aim of milestones in the software testing is
- (a) Testing (b) Casting  
(c) Estimation (d) Scheduling
10. The \_\_\_\_\_ plans for inspection, sets the date, invites the participants, distributes the required documents, runs the inspection meeting, appoints a recorder to record results and monitors the follow up period after the review.
- (a) Requirement Analyst (b) Requirement Analyst  
(c) Developer (d) Inspection Leader

PART - B (5 x 2 = 10 Marks)

11. List out the quality attributes of the software testing.
12. What is meant by STG chart?
13. What are the objectives of configuration testing.
14. What is test log?
15. List out the measures for test monitoring.

PART - C (5 x 16 = 80 Marks)

16. (a) Write about software testing principles. (16)

Or

(b) Draw the internal structure of TMM and explain about its goal. (16)

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

Or

(b) Briefly explain about loop and mutation testing. (16)

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

Or

(b) Briefly explain about the performance testing in software testing. (16)

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

Or

(b) Explain the steps in forming a test group. (16)

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

Or

(b) Draw and explain the architecture of test automation. (16)

