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**Question Paper Code: 44202**

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2019

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. CMM model refers to  
(a) Computer Maturity Model (b) Capability Maturity Model  
(c) Capability Multi Model (d) Computer Multi Model
3. In the \_\_\_\_\_ Box approach, tester has no knowledge of the inner structure i.e. how the software works.  
(a) White (b) Red (c) Black (d) None of these
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. Differentiate between inspections and reviews.

PART - C (5 x 16 = 80 Marks)

16. (a) Write about software testing principles. (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) Discuss designing integration tests and integration test planning. (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) Summarize the test plan components. (16)

Or

(b) State the skills needed by a test specialist. Is he preferred from the same environment or different? Justify why? How a testing group will be selected in an organization? Elaborately review. (16)

20. (b) Explain in detail about the various elements to be checked at design review. (16)

Or

(b) Write short notes on

(i) Components of review plan

(ii) Defect prevention

(iii) Test maturity model (16)

