Reg. No. :

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

Fourth Semester

Computer Science and Engineering

01UCS402 - SOFTWARE TESTING

(Regulation 2013)

Duration: Three hours   Maximum: 100 Marks

Answer ALL Questions.

PART A - (10 x 2 = 20 Marks)

1. Define Testing.

2. What do you mean by Test case?

3. What are the knowledge sources for Black box testing?

4. List the methods of White box testing.

5. List the issues of class testing.

6. What are the advantages of bottom up integration?

7. What are test deliverables? List few of them.

8. Define a Work Breakdown Structure (WBS).

9. Define Defect Removal Leverage (DRL).

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PART - B (5 x 16 = 80 Marks)

11. (a) (i) Write and explain the Software testing principles in detail.   (8)

    (ii) Explain the role of process in software quality.   (8)

Or

   (b) Explain the origin of defect and its classes with its repository in detail.   (16)

12. (a) Explain the concept of equivalence class partitioning and boundary value analysis with example.   (16)

Or

   (b) (i) Explain the various iterations of Loop testing.   (8)

    (ii) Write a note on Evaluating Test adequacy Criteria.   (8)

13. (a) List and explain the various types of system testing with examples.   (16)

Or

   (b) Explain in detail System and validation Testing and all its types.   (16)

14. (a) Discuss on the test infrastructure management with suitable example.   (16)

Or

   (b) What role does user/client play in the development of test plan for a project? Should they be present at any of the test plan reviews? Justify your answer with a case study.   (16)

15. (a) Discuss the significance of various measurements and milestones for monitoring and controlling in the testing process.   (16)

Or

   (b) Classify the different types of review and discuss in detail the components of review plans.   (16)

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