Reg. No. :

Question Paper Code: 31422

B.E. / B.Tech. DEGREE EXAMINATION, NOVEMBER 2015

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. What do you mean by Test case?

2. Differentiate between testing and debugging.

3. Identify the uncovered errors in block box testing.

4. Define compatibility.

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).

10. What are the various types of reviews and its need?

PART - B (5 x 16 = 80 Marks)

11. (a) Explain in detail about the software testing principles. (16)

Or

(b) (i) Discuss about the role of process in software quality. (8)

(ii) Illustrate with a neat diagram the testing as a process. (8)

12. (a) (i) Describe the difference between the white box and black box testing strategies. (8)

(ii) Discuss the various approaches in Black Box test design. (8)

Or

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

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

13. (a) Develop a use case to describe a user purchase of a laptop with credit card from online vendor using web based software. With use case, design a set of tests you would use during system test (general). (16)

Or

(b) (i) What is meant by life cycle testing approach? Explain with an example. (8)

(ii) Describe the different levels of testing and explain software development paradigms associated with these testing. (8)

14. (a) Discuss in detail the roles of three groups in test planning and policy developments? (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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2

31422