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Question Paper Code: 41242

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2016

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 software testing.
2. What do you mean by Test case?
3. What is the purpose of negative testing?
4. List the methods of White box testing.
5. Define a unit test.
6. What is an acceptance test?
7. Define Work Breakdown Structure (WBS).
8. Write down the skills needed by a Test specialist.
9. Define productivity metrics.
10. Define Defect Removal Leverage (DRL).

PART - B (5 x 16 = 80 Marks)

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

Or

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

12. (a) Explain in detail about the cyclomatic complexity testing. (16)

Or

(b) (i) What is Equivalence class partitioning? List rules used to define valid and invalid equivalence classes. Explain the technique using an example. (8)

(ii) What is Boundary value analysis? Explain the technique specifying rules and its usage with the help of an example. (8)

13. (a) Explain Unit and Integration Testing and its types in detail with the necessary diagram. (16)

Or

(b) How the salient aspects of object orientation affect software testing? Explain the differences in object oriented testing. (16)

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

Or

(b) “The role of three groups in test planning and policy development” explain in detail. (16)

15. (a) Describe in detail about Software test automation. (16)

Or

(b) Explain in detail about test defect metrics and its measurements. (16)
