Reg. No. :

Question Paper Code: 31884

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

Elective

Information Technology

01UIT912 - PRINCIPLES OF SOFTWARE TESTING

(Regulation 2013)

Duration: Three hours   Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

1. Define the term validation in the software testing.

2. What are the origins of the defects?

3. What is a control flow graph?

4. What are logical elements considered for coverage and control flow graph?

5. What are the types of system testing?

6. What is means by regression test?

7. List the components of test plan.

8. What are the test related documents?

9. Analyze the cases not suitable for test automation.

10. What are the benefits of test automation?

PART - B (5 x 16 = 80 Marks)

11. (a) (i) What are the axioms of the software testing? Explain.   (8)

    (ii) Write about software testing principles.   (8)

(b) Explain about the term defect classes, the defect repository, and test design. (16)

12. (a) Explain about the Control flow graph of software testing with example. (16)

Or

(b) (i) Differentiate between static testing and dynamic testing. (6)

(ii) Explain in detail about various types of testing in white box. (10)

13. (a) (i) Discuss about the integration testing in software testing. (8)

(ii) Briefly write about regression testing in software testing. (8)

Or

(b) (i) Explain about the acceptance testing in software testing. (8)

(ii) Briefly explain about the performance testing in software testing. (8)

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

Or

(b) Explain about the followings in the software testing:

(i) Test plan attachments (8)

(ii) Reporting test results (8)

15. (a) (i) Mention the purpose of test metrics. (6)

(ii) List the features and need of JUnit. (10)

Or

(b) Briefly write about the followings:

(i) load runner testing tool (8)

(ii) Rational testing tool (8)

———————

31884