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ANNA UNIVERSITY, CHENNAI – 25  
B.E./B.TECH. DEGREE ARREAR EXAMINATIONS APRIL/MAY 2011  
INFORMATION TECHNOLOGY – VII SEMESTER  
IT471 SOFTWARE TESTING – R2004

Duration: 3 Hrs.

Marks: 100

Part-A (10 X 2 = 20)

1. Define: Software Process
2. Distinguish: Bug and Defect
3. What is grey box approach to software testing?
4. How do you estimate the test adequacy criteria?
5. What is Test Driven Development?
6. When is regression analysis required?
7. What are the components of Agile Testing team?
8. Vocabulary plays a significant role in reporting test results. Justify.
9. Why do you need a software test metric?
10. What is versioning? Why is it important?

Part-B (5 X 16 = 80)

- 11.(a) (i) What is so important in software testing? (4)  
(ii) How does testing software contribute to software quality? (4)  
(iii) State the principles of software testing. (8)
- 12.(a) (i) Where do defects originate from? (4)  
(ii) Explain the classes of defects. (8)  
(iii) What is a defect repository? (4)
- (OR)
- 12.(b) (i) Who is a smarter tester? (4)  
(ii) Explain the need for Random testing in today's world. (6)  
(iii) Explain boundary value analysis with an example of your choice. (6)
13. (a) Write a program for designing a calculator and discuss white box testing for the calculator example. (16)
- (OR)
13. (b) Explain top-down and bottom-up integration with an example program of your choice. (16)

14.(a) State the difficulties in software test management. (16)

(OR)

14.(b) Why do you need to plan for writing software test plan? Discuss. (16)

15.(a) Elaborate on the merits and demerits of software test metrics that you know. (16)

(OR)

15.(b) Why do you think, every project development needs a review? What are the review meetings needed for such purpose? (16)