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10IS65

Sixth Semester B.E. Degree Examination, June/July 2018
Software Testing

Time: 3 hrs. Max. Marks:100

Note: ***Answer any FIVE full questions, selecting atleast TWO questions from each part.***

PART – A

1 a. Explain with diagram different steps involved in Testing life cycle. **(06 Marks)**
b. Explain in detail Fundamental approaches used to identify Test Cases. **(06 Marks)**
c. State the triangle problem with all conditions and also explain its traditional and its structural implementation. **(08 Marks)**

2 a. Explain : (i) Robustness Testing (ii) Worst Case Testing . **(10 Marks)**
b. Explain the need of equivalence class testing and its four different types of equivalence class testing. **(10 Marks)**

3 a. What are Structured Constructs? How do you condenses a graph with the use of structured programming constructs. **(10 Marks)**
b. Explain : (i) Basis Path Testing (ii) Slice Based Testing **(10 Marks)**

4 a. Explain Alternative life cycle models. **(10 Marks)**
b. Explain Top Down and Bottom Up integration. **(10 Marks)**

PART – B

5 a. Explain Structured Strategies for Thread Testing. **(10 Marks)**
b. Explain static interaction in single and multiple processors. **(10 Marks)**

6 a. Explain any 5 principles for analysis and testing. **(10 Marks)**
b. Illustrate the Relation among dependability properties with diagram. **(10 Marks)**

7 a. Define Fault based Testing. What are the assumptions in Fault Based Testing? **(05 Marks)**
b. Explain Generic and Specific Scaffolding. **(05 Marks)**
c. Explain Test Oracles with neat diagram. **(10 Marks)**

8 Write short notes on :
a. Clear Room Process Model
b. Software Reliability Engineering Testing
c. Organizing Documents
d. Test and Analysis Reports. **(20 Marks)**

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