## CS SCHE

USN												15CS552
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## Fifth Semester B.E. Degree Examination, Dec.2018/Jan.2019 **Introduction to Software Testing**

Time: 3 hrs. Max. Marks: 80 Note: Answer any FIVE full questions, choosing ONE full question from each module. Module-1 Explain about software quality with respect to quality attributes and reliability. 1 (08 Marks) Explain the classification of test metrics used in software testing. (08 Marks) Explain about the Error and Fault Taxonomies in a perspective testing with respect to types 2 (08 Marks) b. Explain the levels of abstraction and testing in the waterfall model in a levels of testing. (08 Marks) Module-2 Discuss the triangle problem with respect to problem statement, traditional implementation 3 and structured implementation. (08 Marks) Explain the difference between Robustness Testing and Worst Case Testing. (08 Marks) OR Explain the following equivalence class testing with respect to: ii) Strong Normal i) Weak Normal iii) Weak Robust iv) Strong Robust (08 Marks) Explain the Decision Table – Based Testing with any one suitable examples. (08 Marks) Module-3 Explain the Fault-Based Testing Terminologies with respect to assumptions. 5 (08 Marks) Difference between statement testing and condition testing with respect to structural testing. (08 Marks) Explain the following with respect to path testing: DD – Paths ii) McCabe's Basis Path Method. (08 Marks) Explain about slice based testing with suitable examples with respect to data flow testing. (08 Marks) Module-4 Explain the following with respect to Test Execution:

- i) Scaffolding
- ii) Test Oracles (08 Marks)
- Explain the six basic principles that characterize various approaches and techniques for (08 Marks) analysis and testing.

OR

- 8 a. Explain the difference between Risk Planning and the Quality Team with respect to planning and monitoring the process. (08 Marks)
  - b. Explain about the quality and Process with respect to planning and monitoring the process.

    (08 Marks)

Module-5

- 9 a. Explain some of the possible manifestations of incomplete specifications and faulty implementation with reference to Integration and Component based Software Testing.

  (08 Marks)
  - b. Explain the following in brief notes on:
    - i) System Testing
    - ii) Acceptance Testing
    - iii) Regression Testing

(08 Marks)

OR

- a. Draw the context diagram of the simple Automatic Teller Machine (SATM) system with SATM Terminal and 15 Screens for the SATM system. (08 Marks)
  - b. Explain the following Decomposition Based Integration Testing with respect to:
    - i) Top-Down Integration
    - ii) Bottom-up Integration
    - iii) Sandwich Integration

(08 Marks)