

III B. Tech I Semester Regular Examinations, February-2022**SOFTWARE TESTING METHODOLOGIES**

(Common to Computer Science and Engineering, Information Technology)

Time: 3 hours

Max. Marks: 75

Answer any **FIVE** Questions **ONE** Question from **Each unit**

All Questions Carry Equal Marks

UNIT-I

1. a) Define Software Engineering? Discuss in detail about software Myths? [8M]
- b) Explain concurrent software development model. Discuss at least one case study where this model is best suitable. [7M]

(OR)

2. a) Explain the goals of software engineering. [8M]
- b) Discusses software testing life cycle with diagram [7M]

UNIT-II

3. a) What is black box testing? Explain black box testing techniques. [8M]
- b) Discusses boundary value analysis and boundary value checking. [7M]

(OR)

4. a) Explain equivalence class testing with example. [8M]
- b) Define finite state machine? Explain FSM with example. [7M]

UNIT-III

5. a) What is difference between inspection, walkthrough and reviews [8M]
- b) Define regression testing. Explain different types of regression testing. [7M]

(OR)

6. a) Difference between top-down integration testing and bottom-up integration testing. [8M]
- b) What are the objects of regression testing. [7M]

UNIT-IV

7. a) What is the need for minimizing the test cases in project? [8M]
- b) Explain the total statement coverage prioritization with example. [7M]

(OR)

8. a) Explain the various actives performed in the procedural approach for quality management. [8M]
- b) Explain six-sigma in quality management model. [7M]

UNIT-V

9. a) What is the role of invariants in class testing? Discuss with example. [8M]
b) What is the difference between web-based and web-enabled applications? [7M]
- (OR)
10. a) Write a challenge in testing for web-based software. [8M]
b) Discuss about quality aspects in object-oriented software. [7M]
