

CBCS SCHEME



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15IS63

Sixth Semester B.E. Degree Examination, Dec.2023/Jan.2024

Software Testing

Time: 3 hrs.

Max. Marks : 80

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- What is software testing? Why it is so important in SDLC life cycle. (03 Marks)
 - Explain the portrays of software testing life cycle. (05 marks)
 - List six types of faults and explain each with example. (08 Marks)

OR

- Identify problem statement for a triangle with flowchart for traditional implementation. (08 Marks)
 - Describe the GUI application currency converter and embedded device Satrun wind shield wiper with diagram. (08 Marks)

Module-2

- Explain boundary value analysis. Mention its limitations. Derive BVA testcases for triangle problem. (08 Marks)
 - Briefly explain the variants of equivalence class testing. Derive equivalence class testcases for next date problem. (08 Marks)

OR

- Explain the format of decision table. Build decision table for simple version of triangle problem. (08 Marks)
 - Explain fault based testing with its terminologies and assumptions. (08 Marks)

Module-3

- What is cyclomatic complexity? Explain McCale's basis path method. (06 Marks)
 - Write a note on define/use testing. (05 Marks)
 - Explain:
 - Test oracles
 - Capture and Replay(05 Marks)

OR

- What is cyclomatic complexity? Explain McCale's basis path method. (06 Marks)
 - Write a note on define/use testing. (05 Marks)
 - Explain:
 - Test oracles
 - Capture and Replay(05 Marks)

Module-4

- 7 a. Write a note on :
- i) Sensitivity
 - ii) Redundancy
 - iii) Partition
 - iv) Feedback.
- b. Explain dependability properties.
- (08 Marks)
(08 Marks)

OR

- 8 a. Explain risk planning with different types of risks. (08 Marks)
- b. Write a short note on a standard organization of an analysis and test plan. (08 Marks)

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- 9 a. Explain integration testing strategies. (08 Marks)
- b. Draw the context diagram of the SATM system and explain the same. (08 Marks)

OR

- 10 a. Briefly describe about :
- i) System testing
 - ii) Acceptance testing.
- b. Explain traditional view of testing levels, alternatives life-cycle models.
- (06 Marks)
(10 Marks)
