

CBCS SCHEME

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Fourth Semester B.E. Degree Examination, June/July 2023 Software Engineering

Max. Marks: 100

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

Module-1

- 1 a. Explain Boehm's spiral model with neat diagram. (10 Marks)
b. What is software engineering? Explain software engineering code of ethics. (10 Marks)

OR

- 2 a. Explain waterfall model with neat diagram. (08 Marks)
b. Explain the various stages of software testing process. (06 Marks)
c. Explain interviewing and scenarios. (06 Marks)

Module-2

- 3 a. Explain behavioral models with neat diagram. (10 Marks)
b. Define model-driven engineering. Explain the model driven architecture. (10 Marks)

OR

- 4 a. What is RUP? Explain the different phase of rational unified process. (10 Marks)
b. Explain (i) Generalization (ii) Aggregation. (10 Marks)

Module-3

- 5 Explain the following :
i) Component testing ii) Unit testing iii) Release testing iv) Scenario testing (20 Marks)

OR

- 6 a. Explain Software re-engineering. (10 Marks)
b. Explain User testing (10 Marks)

Module-4

- 7 a. Explain COCOMO model. (10 Marks)
b. Explain project scheduling with neat diagram. (10 Marks)

OR

- 8 a. Explain (i) Program inspection (ii) ISO 9001 Standard Framework (10 Marks)
b. Explain Project duration and Staffing. (10 Marks)

Module-5

- 9 a. What is Software pricing? Discuss factors affecting software process. (10 Marks)
b. Explain SCRUM process with its characteristics. (10 Marks)

OR

- 10 a. Explain the process of prototype development. (10 Marks)
b. Distinguish between plan-driven and agile development. (10 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

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