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21CS61

Sixth Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025 Software Engineering and Project Management

Time: 3 hrs.

Max. Marks: 100

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

Module-1

- 1 a. What are seven broad categories of computer software? (10 Marks)
- b. What are the elements of a software process, generic process framework? (10 Marks)

OR

- 2 a. List the types of prescriptive process models and explain waterfall model and incremental process models. (10 Marks)
- b. Explain spiral model and concurrent models. (10 Marks)

Module-2

- 3 a. Define requirements engineering and explain seven different tasks of requirements engineering. (10 Marks)
- b. Draw and explain UMC use case diagram for SafeHome home security function. (10 Marks)

OR

- 4 a. Identify different ways of requirements model. Explain scenario based. (10 Marks)
- b. Draw and explain activity diagram for access camera surveillance via the internet display camera views function. (10 Marks)

Module-3

- 5 a. Explain 12 agility principles to achieve agility. (10 Marks)
- b. Explain SCRUM and FDD. (10 Marks)

OR

- 6 a. Explain Core Principles. (10 Marks)
- b. Explain Construction principles. (10 Marks)

Module-4

- 7 a. Explain activities covered in software project management. (10 Marks)
- b. Explain ways of categorizing software projects. (10 Marks)

OR

- 8 a. Explain Project charter. (10 Marks)
- b. Explain setting objectives. (10 Marks)

Module-5

- 9 a. Explain place of software quality in project planning. (10 Marks)
- b. Explain Boehm's model. (10 Marks)

OR

- 10 a. Explain V – Process Model. (10 Marks)
- b. Explain software Reliability. (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.

