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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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