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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