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BCS501

**Fifth Semester B.E./B.Tech. Degree Examination, June/July 2025**  
**Software Engineering and Project Management**

Max. Marks: 100



Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.  
 2. M : Marks , L: Bloom's level , C: Course outcomes.

Module – 1			M	L	C
Q.1	a.	Define Software Engineering. Briefly explain the seven broad categories of software application domains.	8	L2	CO1
	b.	Define software process. Explain five generic process framework activities.	6	L2	CO1
	c.	Explain any six principles that focus on software engineering practice as a whole.	6	L2	CO1
OR					
Q.2	a.	Explain two common evolutionary process model with neat diagrams.	10	L2	CO1
	b.	Explain the different phases of the unified process model.	10	L2	CO1
Module – 2					
Q.3	a.	Explain the seven distinct tasks of requirements engineering process.	10	L2	CO2
	b.	Develop a use case model for Safe Home system by considering home owner as a primary actor.	10	L3	CO2
OR					
Q.4	a.	Develop an activity diagram for eliciting requirements.	6	L3	CO2
	b.	Explain the different requirement modeling approaches.	10	L2	CO2
	c.	How does analysis clauses manifest themselves as elements of the solution spaces. Mention its different ways.	4	L2	CO2
Module – 3					
Q.5	a.	Explain the by activities of Xp process with a neat diagram.	10	L2	CO3
	b.	Explain the following agile process models. i) Adaptive Software Development (ASD) ii) Scrum.	10	L2	CO3
OR					
Q.6	a.	Explain any five principles i) That guide process ii) That guide practice.	10	L2	CO3
	b.	Explain the ten different planning principles.	10	L2	CO3
Module – 4					
Q.7	a.	Explain the sequence of software development activities recommended by ISO12207 with a neat diagram.	10	L2	CO4
	b.	Make a list of different activities that management involves. Also explain the principal project management processes along with a list of different activities that management involves.	10	L2	CO4
1 of 2					

## OR

Q.8	a.	Explain the traditional versus modern project management practices.	10	L2	CO4
	b.	Explain the different aspects of evaluation of individual projects.	10	L2	CO4

## Module – 5

Q.9	a.	Explain the following software quality models. i) Garvin's quality dimensions ii) McCall's Model.	10	L2	CO5
	b.	Explain the place of software quality step wise frame work in project planning.	10	L2	CO5

## OR

Q.10	a.	Write a short note on : i) Software siting Approaches ii) Problem based estimation.	10	L2	CO5
	b.	Write a short note on : i) Dromey's Model ii) Boehm's Model.	10	L2	CO5

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