

# Model Question Paper-1 with effect from 2021(CBCS Scheme)

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## Sixth Semester B.E. Degree Examination SOFTWARE ENGINEERING & PROJECT MANAGEMENT 21CS61

TIME: 03 Hours

Max. Marks: 100

Note: Answer any **FIVE** full questions, choosing at least **ONE** question from each **MODULE**.

Module -1			*Bloom's Taxonomy Level	COs	Marks
Q.01	a	Define software engineering and explain its process.	L1	1	10
	b	With a neat diagram explain Prescriptive and Waterfall model.	L2	1	10
OR					
Q.02	a	Explain Software Myths with examples.	L2	1	10
	b	With a neat diagram explain Incremental process models and Evolutionary process models.	L2	1	10
<b>Module-2</b>					
Q. 03	a	What are the nature of Software system and explain its characteristics.	L2	2	10
	b	How Requirement engineering it works explain in detail.	L2	2	10
OR					
Q.04	a	Explain three types of QFD with examples.	L2	2	10
	b	Explain scenario based model with example.	L1	2	10
<b>Module-3</b>					
Q. 05	a	Define Agile Process and explain agility principle.	L2	3	10
	b	With a Neat Diagram explain Extreme Programming (XP).	L2	3	10
OR					
Q. 06	a	Write a short note on Scrum and Crystal.	L2	3	10
	b	Explain Communication Practice principle.	L2	3	10
<b>Module-4</b>					
Q. 07	a	What is software project management explain project management life cycle.	L2	4	10
	b	List and explain categorizing software projects.	L1	4	10
OR					
Q. 08	a	Explain traditional v/s project management practices.	L2	4	10
	b	How to assess Project Success and Failure in SPM.	L2	4	10

Module-5					
Q. 09	a	Define software quality and explain place of software quality in project management.	L2	5	10
	b	Explain capability process model and CMM key areas.	L2	5	10
OR					
Q. 10	a	Explain product v/s process quality management.	L2	5	10
	b	Explain in detail the techniques to enhance software quality.	L1	5	10

\*Bloom's Taxonomy Level: Indicate as L1, L2, L3, L4, etc. It is also desirable to indicate the COs and POs to be attained by every bit of questions.

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Module -1			*Bloom's Taxonomy Level	COs	Marks
Q.01	a	Define Software & Software Engineering. Why is it important. Explain the Software Process in Software Engineering.	L2	CO1	10
	b	Demonstrate the waterfall model spiral and model with real time example.	L2	CO1	10
OR					
Q.02	a	Discuss the David Hooker's seven principles of software engineering practice	L2	CO1	10
	b	Describe the five activities that a generic process framework for software engineering encompasses.	L2	CO1	10
<b>Module-2</b>					
Q. 03	a	Explain the different tasks which Requirements Engineering encompasses.	L2	CO2	10
	b	Develop a UML use case diagram for home security function.	L2	CO2	10
OR					
Q.04	a	Explain the activities and steps involved in Negotiation Software Requirements.	L2	CO2	10
	b	Write the UML activity diagrams for eliciting requirements.	L2	CO2	10
<b>Module-3</b>					
Q. 05	a	Explain Adaptive Software Development (ASD) Model with sketch.	L2	CO3	10
	b	Explain the key traits must exist among the people on an agile team and the team itself.	L2	CO3	10
OR					
Q. 06	a	Effective communication is among the most challenging activities that you will confront. Justify this statement by discussing about the principles that apply for communication within a software project	L3	CO3	10
	b	Summarize the Extreme Programming(XP) of Agility	L2	CO3	10
<b>Module-4</b>					
Q. 07	a	Illustrate the Project Management life cycle.	L2	CO4	10
	b	Explain different ways of categorizing Software project.	L2	CO4	10
OR					
Q. 08	a	Elucidate the concepts in activity planning in software project management.	L2	CO4	10
	b	Write short notes on : i) SMART objectives ii) Management control with project control cycle.	L2	CO4	10

Module-5					
Q. 09	a	Explain Quality Management Systems with Principles of BS EN ISO 9001:2000	L2	CO5	10
	b	List and Explain the Techniques to enhance Software Quality and Software Reliability.	L2	CO5	10
OR					
Q. 10	a	What are the advantages of carrying out Inspection? List the general principles to be followed during inspection.	L2	CO5	10
	b	Explain the Following i)Quality Management. ii) Quality plan L2 CO5 (08 Marks) c Compare Product Quality and Process Quali	L2	CO5	10

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Note: 01. Answer any **FIVE** full questions, choosing at least **ONE** question from each **MODULE**.

Module -1			*Bloom's Taxonomy Level	COs	Marks
Q.01	a	Software has characteristics that are considerably different than those of hardware. Justify. Also Explain various software myths.	L2	CO1	10
	b	Briefly explain Concurrent models and Specialized Process Models.	L2	CO1	10
OR					
Q.02	a	Explain the Incremental Development Process model with a neat diagram. Also, mention the benefits of this model compared to the waterfall model.	L2	CO1	10
	b	Explain characteristics that differentiate WebApps from other software.	L2	CO1	10
<b>Module-2</b>					
Q. 03	a	What are the basic guidelines for conducting a collaborative requirements gathering meeting . Write a short note on negotiating and validating requirements.	L2	CO2	10
	b	Illustrate Scenario Based Modeling with Safe Home Surveillance example.	L3	CO2	10
OR					
Q.04	a	Explain Class-Responsibility-Collaborator (CRC) Modeling and data modeling with an example	L2	CO2	10
	b	How can you develop an effective use case? Develop a UML use case diagram for home security function.	L3	CO2	10
<b>Module-3</b>					
Q. 05	a	Elucidate the concepts of extreme programming (XP) with its functional diagram	L2	CO3	10
	b	Elucidate SCRUM process with a neat diagram	L2	CO3	10
OR					
Q. 06	a	What is Agility? Explain Agility with the cost of change with Diagram. Explain the Principles of Agile Software Development	L2	CO3	10
	b	Describe briefly the design modeling principles that guide the respective framework activity	L2	CO3	10
<b>Module-4</b>					
Q. 07	a	With example explain different categories of Software Projects.	L2	CO4	10
	b	Explain the procedure of setting objectives for successful completion of software project.	L2	CO4	10
OR					
Q. 08	a	Differentiate between project management life cycle and software development life cycle and its phases	L2	CO4	10
	b	What is the role of management in execution of software project development? Explain the Difference between Traditional and Modern Project Management.	L2	CO4	10
<b>Module-5</b>					

Q. 09	a	List the popular capability models to manage the quality of the Software and write about SEI CMM with appropriate diagram.	L1	CO5	10
	b	Explain the quality models: 1) Garvin's Quality Dimensions 2) Mccall Model 3) Boehms Model	L2	CO5	10
OR					
Q. 10	a	Identify how Automation testing is preferred over manual testing, with different tools used for Automation Testing	L1	CO5	10
	b	Explain Quality Management Systems with Principles of BS EN ISO 9001:2000	L2	CO5	10

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