



**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)**

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QUESTION BANK (DESCRIPTIVE)

**Subject with Code: Software Process & Project
Management
(18CI0615)**

**Course & Branch: B.Tech CSIT
Regulation: R18**

**UNIT –I
Software Process Maturity**

1	a)What is The Initial Process? b) Explain Staged Representations of CMMI? c)Explain Software assessment? d)What are six principles in in software process change? e)What are CMMI maturity levels?	[L2][CO1] [L2][CO1] [L2][CO1] [L2][CO1] [L2][CO1]	[2M] [2M] [2M] [2M] [2M]
2	Define the Software Process Assessment with its levels in detail?	[L6][CO1]	[10M]
3	What is the importance of Software maturity Framework and explain different principles covered by Software maturity Framework?	[L2][CO1]	[10M]
4	Define Principles of Software Process Change? explain the Six Basic Principles of Software Process Change?	[L1][CO1]	[10M]
5	Explain Personal Software Process (PSP)?	[L2][CO1]	[10M]
6	What are different Process reference models and explain in detail?	[L3][CO1]	[10M]
7	What is CMMI and Objectives of CMMI?	[L3][CO1]	[10M]
8	Define the following: i. Systems Engineering ii. Software Engineering iii. Integrated Product and Process Development iv. Supplier Sourcing	[L2][CO1]	[10M]
9	Differentiate Continuous and Staged Representations of CMMI?	[L3][CO1]	[10M]
10	Explain structure of CMMI in detail?	[L4][CO1]	[10M]

UNIT –II
Software Project Management Renaissance

1	a) Explain Conventional Software Management ? b) Define Documents and Review Meetings? c) What are attributes of successful software project managers? d) Define Elaboration phase? e) Define transition phase?	[L2][CO2] [L2][CO2] [L2][CO2] [L2][CO2] [L2][CO2]	[2M] [2M] [2M] [2M] [2M]
2	Define Waterfall Model in detail? Illustrate Five necessary improvements for waterfall model?	[L2][CO2]	[10M]
3	Explain engineering artifacts and Model based software architecture?	[L2][CO2]	[10M]
4	Explain practice the conventional software management approach?	[L4][CO2]	[10M]
5	What is Protracted Integration and Late Design Breakage?	[L3][CO2]	[10M]
6	Define Software Economics in detail?	[L6][CO2]	[10M]
7	Explain Five basic parameters of the software cost model ?	[L3][CO2]	[10M]
8	Define the way of Reducing Software Product Size?	[L5][CO2]	[10M]
9	Explain Improving Software Processes? and improving team effectiveness?	[L3][CO2]	[10M]
10	Explain the different types of Engineering Sets in detail?	[L4][CO2]	[10M]

UNIT –III
Workflows and Checkpoints of process

1	a) What are top seven work flows in software process? b) What are major milestones in joint management reviews? c) Explain Iteration Assessment Review in minor milestones? d) Explain the phases of production stage? e) Explain the phases of engineering stage?	[L4][CO3] [L4][CO3] [L4][CO3] [L4][CO3] [L4][CO3]	[2M] [2M] [2M] [2M] [2M]
2	Explain iteration's workflow in detail?	[L4][CO3]	[10M]
3	Define Checkpoints of the process and Different types of joint management reviews	[L1][CO3]	[10M]
4	Explain four major milestones in detail?	[L2][CO3]	[10M]
5	a)What is An evolutionary Work break down structure ? b)Explain Planning guidelines?	[L2][CO3] [L2][CO3]	[5M] [5M]
6	What is the Cost and Scheduling Estimating Process	[L6][CO3]	[10M]
7	Write in detail about The Iteration Planning Process and pragmatic planning ?	[L2][CO3]	[10M]
8	Explain about periodic status assessments?	[L4][CO3]	[10M]
9	Define Conventional work breakdown structures in detail	[L2][CO3]	[10M]
10	Write about SOFTWARE PROCESS WORKFLOWS	[L5][CO3]	[10M]

UNIT –IV
Project Organizations

1	a) What is Line-Of-Business Organizations: b) Explain Project Review Authority (PRA)? c) What are Automation Building blocks? d) What are core metrics in project control? e) What is Software Change Orders?	[L3][CO4] [L3][CO4] [L3][CO4] [L3][CO4] [L3][CO4]	[2M] [2M] [2M] [2M] [2M]
2	Write about The Project Environment in detail?	[L2][CO4]	[10M]
3	Explain about Seven core metrics related to project control?	[L4][CO4]	[10M]
4	What is a Change Management and the concepts including in change management	[L2][CO4]	[10M]
5	Explain Project Control & Process Instrumentation?	[L2][CO4]	[10M]
6	Define Round Trip Environment?	[L2][CO4]	[10M]
7	Illustrate the Budgeted cost and expenditures?	[L1][CO4]	[10M]
8	a)Define Management Indicators? b)Define Quality Indicators?	[L2][CO4] [L2][CO4]	[5M] [5M]
9	Explain in detail about the Life -Cycle Expectations	[L5][CO4]	[10M]
10	Define indicators in Project Control & Process Instrumentation?	[L5][CO4]	[10M]

UNIT- V

1	a) What are Automation Building blocks?	[L3][CO4]	[2M]
	b) Explain Project Review Authority (PRA)?	[L3][CO4]	[2M]
	c) What is Line-Of-Business Organizations?	[L3][CO4]	[2M]
	d) What are core metrics in project control?	[L3][CO4]	[2M]
	e) What is Software Change Orders?	[L3][CO4]	[2M]
2	Explain Project Control & Process Instrumentation?	[L2][CO5]	[10M]
3	Explain in detail about the Life -Cycle Expectations	[L4][CO5]	[10M]
4	Define indicators in Project Control & Process Instrumentation?	[L2][CO5]	[10M]
5	Illustrate the Budgeted cost and expenditures?	[L6][CO5]	[10M]
6	What are the principles of modern software management?	[L4][CO5]	[10M]
7	Explain about The Command Center Processing and Display System- Replacement (CCPDS-R) project?	[L5][CO5]	[10M]
8	Define Modern Process Transitions in detail?	[L2][CO5]	[10M]
9	Explain about the Next-Generation Software Economics in detail ?	[L2][CO5]	[10M]
10	What are the Key Points of An objective case study is a true indicator of a mature organization?	[L2][CO5]	[10M]

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