GEETHANJALIINSTITUTEOFSCIENCE&TECHNOLOGY
(ANAUTONOMOUS INSTITUTION)
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QUESTION BANK (DESCRIPTIVE)

Subject Name: Software Project Management
Subject Code: 22A0522C
Course & Branch : B.Tech, CS & DS
Year & Semester: III B.Tech II Semester Regulation: RG23

S.No	UNIT – I Descriptive Questions (Short)	[BT Level] [CO][Marks]
1	What is Conventional Software Management?	LO1, 2M
2	Mention any two characteristics of conventional software management.	LO1, 2M
3	What is the Waterfall Model?	LO2, 2M
4	Why is software cost estimation difficult?	LO2, 2M
5	What is meant by reducing software product size?	LO2, 2M
6	Define Software Economics	LO3, 2M
7	What are peer inspections?	LO3, 2M
8	What are the limitations of conventional software management?	LO3, 2M
9	What is automation in software development?	LO4, 2M
10	What is software quality?	LO4, 2M

S No	UNIT – I Descriptive Questions (Long)	[BT Level] [CO][Marks]
1	**Explain Conventional Software Management.**	LO1, 12M
2	**Explain the characteristics of Conventional Software Management.**	LO2, 12M
3	**Discuss the limitations of Conventional Software Management.**	LO2, 12M
4	**Explain the Waterfall Model with a neat diagram.**	LO3, 12M
5	**Explain the performance issues of Conventional Software Management in real projects.**	LO3, 12M
6	**Define Software Economics and explain its importance in software projects.**	LO4, 12M
7	**Explain Pragmatic Software Cost Estimation.**	LO4, 12M
8	**Explain why Software Cost Estimation is difficult.**	LO4, 12M
9	**Explain the ways to improve Software Economics.**	LO4, 12M
10	**Explain Peer Inspections and how they help in achieving required quality and reducing defects.**	LO4, 12M

S.No	UNIT – II Descriptive Questions (Short)	[BT Level] [CO][Marks]
1	What is meant by conventional software engineering?	LO1, 2M
2	State two differences between old and new software development approaches.	LO1, 2M
3	What is the Engineering stage of the software life cycle?	LO2, 2M
4	What are software artifacts?	LO2, 2M
5	What is the Iterative Software Development Life Cycle?	LO2, 2M
6	What is the Production stage?	LO2, 2M
7	What are the activities performed in the Engineering stage?	LO3, 2M
8	What is risk in software projects?	LO3, 2M
9	What is Elaboration phase?	LO4, 2M
10	Mention two goals of Inception phase?	LO4, 2M

S.No	UNIT – II Descriptive Questions (Long)	[BT Level] [CO][Marks]
1	Explain the principles of Conventional Software Engineering (Davis's principles).	LO1, 12M
2	Explain the principles of Modern Software Management and their significance.	LO1, 12M
3	Compare the old way and the new way of software management.	LO1, 12M
4	Explain the need for transitioning to an iterative process in software development.	LO2, 12M
5	Explain the Engineering stage and Production stage of the software life cycle.	LO2, 12M
6	Explain the Inception phase with objectives, activities, and evaluation criteria.	LO2, 12M
7	Explain the Elaboration phase with objectives, activities, and evaluation criteria.	LO2, 12M
8	Explain the Construction phase with objectives, activities, and evaluation criteria.	LO2, 12M
9	Explain the Transition phase with objectives, activities, and evaluation criteria.	LO2, 12M
10	Explain Artifacts of the process and describe Engineering artifacts and Programming artifacts in detail.	LO2, 12M

S.No	UNIT – III Descriptive Questions (Short)	[BT Level] [CO][Marks]
1	What is meant by software process workflow?	LO1, 2M
2	Define major milestones in software project management.	LO1, 2M
3	What are minor milestones?	LO2, 2M
4	What is a defect set?	LO2, 2M
5	Define management workflow.	LO2, 2M
6	What is meant by periodic status assessment?	LO3, 2M
7	Define iterative process planning.	LO3, 2M
8	What is a Work Breakdown Structure (WBS)?	LO4, 2M
9	What are planning guidelines?	LO4, 2M
10	What is pragmatic planning?	LO4, 2M

S.No	UNIT – III Descriptive Questions (Long)	[BT Level] [CO][Marks]
1	Explain Software Process Workflows in Software Project Management.	LO1, 12M
2	Explain Inter-Workflow Transitions and their role in an iterative software process.	LO1, 12M
3	Explain Checkpoints of the process and why they are required in software projects.	LO2, 12M
4	Explain Major Milestones with suitable examples.	LO2, 12M
5	Explain Minor Milestones with suitable examples.	LO3, 12M
6	Explain Periodic Status Assessments and their importance in project monitoring.	LO3, 12M
7	Explain the concept of Iterative Process Planning in software development.	LO4, 12M
8	Explain Work Breakdown Structure (WBS) and its role in project planning.	LO4, 12M
9	Explain the Iteration Planning Process step-by-step.	LO4, 12M
10	Explain Pragmatic Planning and describe how it supports realistic project execution.	LO4, 12M

S.No	UNIT – IV Descriptive Questions (Short)	[BT Level] [CO][Marks]
1	What is meant by process automation in software project management?	LO1, 2M
2	Define automation building blocks.	LO1, 2M
3	What is a project environment?	LO2, 2M
4	Define project control.	LO2, 2M
5	What is meant by process instrumentation?	LO2, 2M
6	Define software metrics.	LO3, 2M
7	What are management indicators?	LO3, 2M
8	What are quality indicators?	LO3, 2M
9	What is meant by process tailoring?	LO4, 2M
10	Define team organization.	LO4, 2M

S.No	UNIT – IV Descriptive Questions (Long)	[BT Level] [CO][Marks]
1	Explain Process Automation and its importance in Software Project Management.	LO1, 12M
2	Explain the Automation Building Blocks used in process automation.	LO1, 12M
3	Explain the Project Environment and its importance in software development.	LO2, 12M
4	Explain Project Control and Process Instrumentation in detail.	LO2, 12M
5	Explain the Seven Core Metrics used for project monitoring and control.	LO3, 12M
6	Explain Management Indicators and how they are used for project decision-making.	LO3, 12M
7	Explain Quality Indicators and their role in ensuring software quality.	LO4, 12M
8	Explain Tailoring the Process and why tailoring is required in projects.	LO4, 12M
9	Explain Process Discriminators and how they help in tailoring a process.	LO4, 12M
10	Explain Managing people and organizing teams in software project management.	LO4, 12M

S.No	UNIT – V Descriptive Questions (Short)	[BT Level] [CO][Marks]
1	What is meant by project organization?	LO1, 2M
2	Define Line-of-Business (LOB) organization.	LO1, 2M
3	What is a projectized organization?	LO1, 2M
4	What is meant by organizational evolution?	LO2, 2M
5	Define software project responsibilities.	LO2, 2M
6	What is a project manager profile?	LO2, 2M
7	What is meant by modern software project management?	LO3, 2M
8	Define future software project management.	LO3, 2M
9	What is meant by next-generation software economics?	LO3, 2M
10	What are modern process transitions?	LO4, 2M

S.No	UNIT – V Descriptive Questions (Long)	[BT Level] [CO][Marks]
1	Explain Line-of-Business Organizations in software project management.	LO1, 12M
2	Explain Project Organizations and their responsibilities in software development.	LO2, 12M
3	Explain the evolution of organizations in software project management.	LO2, 12M
4	Explain Project Organizations and Responsibilities in detail.	LO3, 12M
5	Explain Modern Project Profiles and their importance in future software management.	LO3, 12M
6	Explain Next Generation Software Economics and how it improves project success.	LO4, 12M
7	Explain Modern Process Transitions in software project management.	LO4, 12M
8	Explain the major features of Future Software Project Management.	LO4, 12M
9	Explain the CCPDS-R case study (Command Center Processing and Display System – Replacement).	LO4, 12M
10	Explain the key lessons learned from CCPDS-R and how it relates to modern software project management.	LO4, 12M