

III B. Tech II Semester Regular/Supplementary Examinations, May/June - 2024
SOFTWARE PROJECT MANAGEMENT

(Com. to CSE(AIML), CSE(AI), CSE(DS), CSE(AIDS), AIDS, AIML, CSD)

Time: 3 hours

Max. Marks: 70

Answer any **FIVE** Questions **ONE** Question from **Each unit**

All Questions Carry Equal Marks

UNIT-I

1. a) What is conventional software project management? Explain its performance factors. [7M]
b) Describe the ways to achieve required quality of software process. [7M]
(OR)
2. a) What are the components of a good cost estimates? Explain. [7M]
b) Discuss in detail about improving team effectiveness. [7M]

UNIT-II

3. a) Explain inception phase and elaboration phase in detail. [7M]
b) Describe the significance of Engineering artifacts. [7M]
(OR)
4. a) Define Artifact? Write in detail about Management artifacts. [7M]
b) Elaborate on life cycle phases of Production stage. [7M]

UNIT-III

5. a) Describe the conventional Work Breakdown Structure issues. [7M]
b) Explain the technical perspective of model-based software architecture. [7M]
(OR)
6. a) Compare major and minor milestones of the process. [7M]
b) Discuss about iteration planning process in detail. [7M]

UNIT-IV

7. a) Explain the different Quality Indicators of a process. [7M]
b) What are the basic characteristics of a good metric? Explain. [7M]
(OR)
8. a) Illustrate the concept of Automation Building Blocks. [7M]
b) Discuss the reasons for looking at organizations from project as well as line of business perspective. [7M]

UNIT-V

9. a) Explain about Agile Methodologies in detail. [7M]
b) What is Orchestration in DevOps? Explain. [7M]
(OR)
10. a) Brief on the use of tool stack implementation. [7M]
b) Explain DevOps eco system in detail. [7M]

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UNIT-I

1. a) Explain the steps involved in waterfall model. [7M]
b) Justify how peer inspection is the key aspects of a quality system with an example. [7M]

(OR)

2. a) What are modern software management principles for solving conventional problems? [7M]
b) How to improve software processes? Explain [7M]

UNIT-II

3. a) Define Artifact? Write in detail about Programmatic artifact. [7M]
b) What is phase? Elaborate on life cycle phases of Engineering stage. [7M]

(OR)

4. a) Explain Construction phase and elaboration phase in detail. [7M]
b) Describe the role of Management artifacts. [7M]

UNIT-III

5. a) Summarize the different types of process checkpoints. [7M]
b) Describe management perspective of model-based software architecture. [7M]

(OR)

6. a) Define workflow of the process? Discuss about software process workflows? [7M]
b) What are planning guidelines? Explain. [7M]

UNIT-IV

7. a) List out three management indicators that can be used as core metrics on software projects. [7M]
b) Briefly explain about project organizations. [7M]

(OR)

8. a) Discuss seven core metrics for project control with suitable examples. [7M]
b) Write a note on life cycle expectations of a software project. [7M]

UNIT-V

9. a) What are the patterns for Adopting Scrum? [7M]
b) Outline the need and instance of applications in DevOps. [7M]

(OR)

10. a) Discuss about DevOps Architecture in detail. [7M]
b) Give a note on Agiling capabilities. [7M]

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UNIT-I

1. a) Explain about pragmatic software cost estimation model. [7M]
- b) What are the principles of modern software management? [7M]

(OR)

2. a) Discuss about conventional software project management with its pros and cons. [7M]
- b) Explain about three generations of software economics. [7M]

UNIT-II

3. a) Explain inception phase and Transition phase in detail. [7M]
- b) Outline the importance of Programmatic artifacts. [7M]

(OR)

4. a) Define Artifact? Write in detail about Engineering artifacts. [7M]
- b) Differentiate in between engineering and production stages. [7M]

UNIT-III

5. a) Discuss the concept of iteration workflows with a diagram. [7M]
- b) Explain in detail about typical sequence of life cycle check points. [7M]

(OR)

6. a) Discuss about the cost and schedule estimating process. [7M]
- b) Explain the steps required to build a work breakdown structure. [7M]

UNIT-IV

7. a) Define metric? Discuss seven core metrics for project control and process instrumentation with suitable example. [7M]
- b) Briefly explain about line-of-business organizations. [7M]

(OR)

8. a) Illustrate the concept of process automation. [7M]
- b) Explain about pragmatic software metrics. [7M]

UNIT-V

9. a) Give a note on Iterating towards Agility. [7M]
- b) What are the deployments in DevOps? [7M]

(OR)

10. a) Discuss about DevOps adoption in projects. [7M]
- b) Illustrate the concept of technology aspects of a process. [7M]

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UNIT-I

1. a) Write any ten principles of conventional software engineering and explain. [7M]
b) Describe improving automation through software environments. [7M]
(OR)
2. a) What are the various approaches for reducing software product size? Explain. [7M]
b) Write short notes on Iterative Processes. [7M]

UNIT-II

3. a) Explain Construction phase and Transition phase in detail [7M]
b) Outline the importance of artifacts in a process. [7M]
(OR)
4. a) Explain the overview of the artifact set. [7M]
b) What are the differences in emphasis between engineering and production stages? [7M]

UNIT-III

5. a) What are default agendas for the life-cycle architecture milestone? Explain [7M]
b) What is a workflow? Discuss different types of workflows used in software project. [7M]
(OR)
6. a) Explain iteration planning process and planning guidelines. [7M]
b) Discuss about pragmatic planning process in detail. [7M]

UNIT-IV

7. a) What is Software Quality Metrics? Explain in detail various categories of Software Quality Metrics with suitable example each. [7M]
b) Briefly explain about evolution of organizations. [7M]
(OR)
8. a) How does metric automation become crucial to effective project control? Discuss. [7M]
b) Compare management indicators and quality indicators of a project control and process instrumentation. [7M]

UNIT-V

9. a) List and explain the fundamentals of DevOps. [7M]
b) Give a note on ADAPTING to scrum. [7M]
(OR)
10. a) Discuss about DevOps delivery pipeline. [7M]
b) Compare technology aspects and people aspects of a process. [7M]