Code No: R203242A **R20** SET -1

III B. Tech II Semester Regular Examinations, July -2023
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
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UNIT-I

1.	a)	What are the problems with Traditional waterfall model? What are the necessary recommendations for it?	[7M]
	b)	Discuss the pragmatic software cost estimation process.	[7M]
		(OR)	
2.	a)	Explain briefly the principles of modern software management.	[7M]
	b)	What are the five parameters used for software estimations? Describe the relationship between them.	[7M]

UNIT-II

3.	a)	How to achieve concurrence among stakeholders in the inception phase?	[7M]
	b)	List the activities and evolution criteria in construction phase of life cycle process.	[7M]
		(OR)	
4.	a)	Give artifact sequences across a life cycle.	[7M]
	b)	Write a short note on engineering and production stages of a project.	[7M]

UNIT-III

5.	a)	Define iteration. Discuss the sequence of activities in an iteration workflow.	[7M]
	b)	What is the technical perspective of a project? How architecture is different from architecture baseline?	[7M]
		(OR)	
6.	a)	Explain briefly planning balance throughout the life cycle.	[7M]
	b)	Compare major mile stones and minor milestones.	[7M]

UNIT-IV

7.	a)	Illustrate default roles in a software Line-of-Business Organization.	[7M]
	b)	What is round trip engineering? Explain.	[7M]
		(OR)	
8.	a)	Discuss in detail about the three fundamental sets of management metrics.	[7M]
	b)	Discuss the life cycle expectations in software project management.	[7M]

UNIT-V

9.	a)	What is Agile methodology? Discuss its key elements.	[7M]
	b)	Explain the difference between the traditional Waterfall model and the Agile model.	[7M]
		(OR)	
10.	a)	How will you approach a project that needs to implement DevOps?	[7M]
	b)	Explain tool stack implementation for DevOps.	[7M]

Code No: R203242A **R20** SET -2

III B. Tech II Semester Regular Examinations, July -2023
SOFTWARE PROJECT MANAGEMENT
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Time: 3 hours Max. Marks: 70

Answer any **FIVE** Questions **ONE** Question from **Each unit**
All Questions Carry Equal Marks
*****

UNIT-I

1.	a)	List and explain principles of conventional software engineering.	[7M]
	b)	Discuss the pros and cons of the waterfall model.	[7M]
		(OR)	
2.	a)	Describe the ten principles of modern software management.	[7M]
	b)	What are the key practices that improve overall software quality? Explain them.	[7M]

UNIT-II

3.	a)	Explain the engineering and production stages phases of the life-cycle process.	[7M]
	b)	What is the importance of elaboration phase? Give its primary objectives and essential activities.	[7M]
		(OR)	
4.		Give a detailed note on engineering sets in artifacts along with their formats.	[14M]

UNIT-III

5.	a)	Explain the infrastructure, control, and data interfaces from management perspective**.**	[7M]
	b)	Explain the artifacts and life cycle emphases associated with each work flow.	[7M]
		(OR)	
6.	a)	Describe the four major milestones with suitable examples.	[7M]
	b)	Compare and contrast conventional and Evolutionary work break down structures.	[7M]

UNIT-IV

7.	a)	Explain project Evolution of organizations and their responsibilities in each phase.	[7M]
	b)	Elaborate on the management indicators for project control.	[7M]
		(OR)	
8.	a)	Give the reasons for selecting the seven core metrics in the software life cycle.	[7M]
	b)	Describe the pragmatic Software Metrics.	[7M]

UNIT-V

9.	a)	Explain the challenges in adapting the Agile Scrum process.	[7M]
	b)	Elaborate on the delivery pipeline of DevOps.	[7M]
		(OR)	
10.	a)	How is DevOps different from traditional methodology? Explain	[7M]
	b)	Give architecture for DevOps with a neat diagram.	[7M]

Code No: R203242A **R20** SET -3

III B. Tech II Semester Regular Examinations, July -2023
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Time: 3 hours Max. Marks: 70

Answer any **FIVE** Questions **ONE** Question from **Each unit**
All Questions Carry Equal Marks
*****

UNIT-I

1.	a)	Explain cost estimation of a software project.	[7M]
	b)	How a software process can be improved? Discuss various factors.	[7M]
		(OR)	
2.	a)	What is Convolution software engineering? What drawbacks you observed?	[7M]
	b)	Explain iterative process in detail?	[7M]

UNIT-II

3.	a)	How inception of a software project will be carried out?	[7M]
	b)	Explain management artifacts in detail.	[7M]
		(OR)	
4.	a)	What are the activities carried out in elaboration and construction phases of software?	[7M]
	b)	What is artifact? Define various artifacts.	[7M]

UNIT-III

5.	a)	Explain software process workflow with neat sketch.	[7M]
	b)	Discuss Iterative planning process.	[7M]
		(OR)	
6.	a)	What is the technical perspective of model based software architectures?	[7M]
	b)	How to produce periodic status assessments	[7M]

UNIT-IV

7.	a)	Give a note on Automation building blocks.	[7M]
	b)	How to measure the metrics of automation? Explain in detail.	[7M]
		(OR)	
8.	a)	What are the responsibilities of project organizations?	[7M]
	b)	What is an indicator? List various management and quality indicators.	[7M]

UNIT-V

9.	a)	What is agile methodology of software? How it is adopts the changes?	[7M]
	b)	Explain DevOps eco system.	[7M]
		(OR)	
10.	a)	What is scrum? How to adopt them in a project? Who identifies the need of adaptation?	[7M]
	b)	Discuss tool stock implementation.	[7M]

Code No: R203242A **R20** SET -4

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Time: 3 hours Max. Marks: 70

Answer any **FIVE** Questions **ONE** Question from **Each unit**
All Questions Carry Equal Marks
*****

UNIT-I

1.	a)	Discuss waterfall model with eat sketch.	[7M]
	b)	Compare and contrast convolution and modern software engineering.	[7M]
		(OR)	
2.	a)	List various factors used to determine and optimize cost of software.	[7M]
	b)	How to achieve high quality software? Explain in detail.	[7M]
		UNIT-II	
3.	a)	What is software life cycle? Explain elaboration phase in detail.	[7M]
	b)	Discuss engineering artifacts in detail.	[7M]
		(OR)	
4.	a)	What is transition phase in a software life cycle?	[7M]
	b)	List out various artifacts sets.	[7M]
		UNIT-III	
5.	a)	What is the management perspective of model based software architectures?	[7M]
	b)	Compare major and minor mile stones. How to achieve them?	[7M]
		(OR)	
6.	a)	Explain Iterative process workflow with neat sketch.	[7M]
	b)	What are planning guidelines? Discuss pragmatic planning.	[7M]
		UNIT-IV	
7.	a)	Explain evolution of project organization.	[7M]
	b)	Explain pragmatic software metrics?	[7M]
		(OR)	
8.	a)	Explain the roles in organization.	[7M]
	b)	Explain project environment in detail.	[7M]
		UNIT-V	
9.	a)	Compare agile and convolution software development.	[7M]
	b)	Give architecture of DevOps with neat sketch.	[7M]
		(OR)	
10.	a)	What are the patterns of adopting scrum of software?	[7M]
	b)	How DevOps plays vital role in adaptation of projects?	[7M]