Code No: R203105B (R20) (SET - 1

## III B. Tech I Semester Regular Examinations, Dec/Jan – 2022-23 SOFTWARE PROJECT MANAGEMENT

(Computer Science and Engineering)

Tim	e: 3	hours (Computer Science and Engineering)  Max. Marks	s: 70			
Answer any <b>FIVE</b> Questions <b>ONE</b> Question from <b>Each unit</b>						
		All Questions Carry Equal Marks  ******				
		<u>UNIT-I</u>				
1.	a) b)	Give the Theoretical implications of Waterfall Model.  Explain about the five basic parameters that most software models can be abstracted into.	[7M] [7M]			
2.	a)	(OR) Illustrate a software cost estimation process.	[7M]			
۵.	,	Explain in details the generations of software development.				
	b)	UNIT-II	[7M]			
3.	a)	Explain about the Engineering and production stages in the Software Life cycle process.	[7M]			
	b)	What are design set artifacts? How are they evaluated?	[7M]			
4	,	(OR)	[77 8 6]			
4.	a)	Explain the essential activities of the Inception and the Elaboration phases.	[7M]			
	b)	Why artifact sets are classified into engineering and management sets? Explain .	[7M]			
5.	a)	Explain the Software Architecture from the management perspective.	[7M]			
	b)	What is a workflow? Explain in detail the process workflows.	[7M]			
	,	(OR)				
6.	a)	State the heuristics that describe objectively an architecture baseline.	[7M]			
	b)	What is a milestone? Explain Major and Minor Milestones with respect to the software process.  UNIT-IV	[7M]			
7.	a)	Explain the roles and responsibilities of the default line-of-business organization.	[7M]			
	b)	What is Automation? Explain the building blocks for process automation.	[7M]			
		(OR)				
8.	a)	Illustrate the software project team evolution over the life cycle	[7M]			
	b)	Explain about the four Quality indicators used in the software process.	[7M]			
		<u>UNIT-V</u>				
9.	a)	What is Agile methodology? Explain the properties of Agile methodology.	[7M]			
	b)	What is DevOps? Explain the DevOps delivery pipelining. (OR)	[7M]			
10.	a)	What is SCRUM model? Focus on its cycles.	[7M]			
	b)	Explain the tools that support implementation of DevOps.  1 of 1	[7M]			

## III B. Tech I Semester Regular Examinations, Dec/Jan - 2022-23 SOFTWARE PROJECT MANAGEMENT

(Computer Science and Engineering) Time: 3 hours Max. Marks: 70 Answer any FIVE Questions ONE Question from Each unit All Questions Carry Equal Marks UNIT-I 1. Explain Water fall model. Explain its implications to software [7M] project management. Give the characteristics of a successful software project. [7M] (OR) 2. Describe the steps in the cost estimation process of software. [7M] Also focus on the roles involved in it. Explain the principles of Modern software management. [7M] UNIT-II 3. Compare the activities of Engineering and production stages in [7M] a) the Software Life cycle process. What is the impact of iterative development on artifact [7M] evolution? (OR) 4. Explain the objectives and essential activities of the Inception [7M] and Elaboration Phases. Give the classification of Engineering artifacts along with their [7M] formats. UNIT-III Explain the software architecture from the Technical perspective. 5. [7M] Elaborate on the Iteration Planning Process with a neat diagram b) [7M] (OR) 6. What is the sequence of individual iteration workflows? [7M] b) Explain the typical Minor Milestones in the life cycle iterations. [7M] UNIT-IV 7. Explain the roles and responsibilities of the default line-of-[7M] business organization. Explain about the four Quality indicators used in the software b) [7M] process. (OR) 8. Explain in detail the default project organization [7M] responsibilities. Give the Seven Core metrics that are used in managing the [7M] software process. **UNIT-V** 9. What are the disadvantages of traditional methodology over Agile [7M] methodology? How to transit to SCRUM model? Compare the tools that support implementation of DevOps. [7M] (OR) What is Agile methodology? Explain the properties of Agile 10. a) [7M]

Give the significance of various components of DevOps eco [7M]

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methodology.

Code No: R203105B (R20) (SET - 3)

## III B. Tech I Semester Regular Examinations, November -2022 SOFTWARE PROJECT MANAGEMENT

(Computer Science and Engineering)

Time: 3 hours Max. Marks: 70

		Answer any <b>FIVE</b> Questions <b>ONE</b> Question from <b>Each unit</b>	
		All Questions Carry Equal Marks *****	
		UNIT-I	
1.	a)	Explain the waterfall model and its significance in software project management.	[7M]
	b)	Explain the pragmatic cost estimation process. (OR)	[7M]
2.	a)	Describe the three generations of software economics.	[7M]
	b)	Explain the trends in improving software economics.	[7M]
		<u>UNIT-II</u>	
3.	a)	Explain the evolution of life cycle of artifact sets.	[7M]
	b)	Describe the two stage of life cycle to achieve economies of scale and higher returns.	[7M]
4	,	(OR)	[ / 7 ] [ 6 ]
4.	a)	Explain the essential activities of the Elaboration and Construction.	[7M]
	b)	Give an overview on the artifact sets.	[7M]
_		<u>UNIT-III</u>	· 1
5.	a)	"Architecture is the most critical product of a software project". Justify.	[7M]
	b)	Explain the types of management reviews that are conducted throughout the process.	[7M]
		(OR)	
6.	a)	What is a workflow? Explain in detail the process workflows.	[7M]
	b)	What is a work breakdown structure? How is it significant in process planning?	[7M]
_		<u>UNIT-IV</u>	
7.	a) b)	Illustrate the software project team evolution over the life cycle. What is Round Trip Engineering? Explain.	[7M] [7M]
8.		(OR) Explain the responsibilities of the four component teams in a	[14
0.		line of business organization with a neat diagram.	M]
		<u>UNIT-V</u>	
9.	a)	What are the five principles of SCRUM? Explain them	[7M]
	b)	What are the four key components of DevOps? Explain them. (OR)	[7M]
10.	a)	What is Agile methodology? Explain the properties of Agile methodology.	[7M]
	b)	What is the difference between Agile and DevOps? Give the principles of DevOps.	[7M]
		1 of 1	

## III B. Tech I Semester Regular Examinations, Dec/Jan - 2022-23 SOFTWARE PROJECT MANAGEMENT

(Computer Science and Engineering)

Time: 3 hours Max. Marks: 70						
		Answer any FIVE Questions ONE Question from Each unit				
All Questions Carry Equal Marks						
		UNIT-I				
1.	a)	Give Boehm's "Industrial Software Metrics top 10 list".	[7M]			
	b)	How to reduce software product size? Explain	[7M]			
0	۵)	(OR)	[/7][/[]			
2.	a)	Classify the three levels of processes and their attributes in improving software process.	[7M]			
	b)	Describe the process of improving automation through software	[7M]			
		environments.				
3.	۵)	<u>UNIT-II</u> Explain the essential activities of the construction and	[/7][/[]			
٥.	a)	Explain the essential activities of the construction and Transition phases.	[7M]			
	b)	Give the format of release description and release specifications.	[7M]			
		(OR)				
4.	a)	Explain the primary objectives of the Inception and the	[7M]			
	b)	Elaboration phases.  Give the format of software change order. Explain its	[7M]			
	-,	components.	. ,			
_		<u>UNIT-III</u>	[77.6]			
5.	a)	Explain the types of management reviews that are conducted throughout the process.	[7M]			
	b)	Describe about Initial capability mile stone and product release	[7M]			
	,	milestone in detail.				
6		(OR)	[14			
6.		Discuss the compatibility of views to that of the seven work flows with a neat diagram.	[14 M]			
		was written at 1-out anagramme	]			
_	,	<u>UNIT-IV</u>	[ 7 7 6 ]			
7.	a) b)	Describe the automation and tool support for process workflows. What are the management indicators recommended for a	[7M] [7M]			
	D)	software project? Explain them	[111]			
		(OR)				
8.	a)	Illustrate the software project team evolution over the life cycle.	[7M]			
	b)	Give the Seven Core metrics that are used in managing the	[7M]			
		software process.  UNIT-V				
9.	a)	How is SCRUM different from other process models? Explain.	[7M]			
	b)	How will you approach a project that needs to implement	[7M]			
		DevOps? Explain				
10.	a)	(OR) What are the technical support required for DevOps integration	[7M]			
	~ <i>j</i>	into software industry?	[]			
	b)	Mention some of the core benefits of DevOps.	[7M]			

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