Code No: **R42121** **R10** **Set No. 1**

IV B.Tech II Semester Regular/Supplementary Examinations, April/May - 2016

SOFTWARE PROJECT MANAGEMENT

(Information Technology)

Time: 3 hours **Max. Marks: 75**

Answer any FIVE Questions
All Questions carry equal marks
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1	a)	Discuss the results of conventional software project design reviews.	[8]
	b)	How do you define Software Economics? Explain about five basic parameters of the software cost models.	[7]
2	a)	State and explain any ten principles of conventional Software Engineering?	[10]
	b)	List and Explain the Boehm's five staffing principles.	[5]
3	a)	Explain in detail the phases of the life-cycle process.	[5]
	b)	Discuss in detail the artifacts captured in the Management set?	[10]
4		Discuss in detail about workflows of the software process.	[15]
5	a)	With a neat sketch, Explain the sequence of life-cycle checkpoints.	[8]
	b)	Give the simple planning guidelines to be considered during the initiation or assessment of a project.	[7]
6	a)	Discuss various activities of a software management team over the project life cycle.	[8]
	b)	Define round-trip engineering. What is the primary reason for round-trip engineering? Explain.	[7]
7	a)	State and Explain the important seven core software metrics.	[8]
	b)	Explain the two primary dimensions of the process variability with an example.	[7]
8	a)	State and explain the nine best practices for software management.	[10]
	b)	Discuss the characteristics of conventional software process and modern iterative development process frameworks.	[5]

Code No: **R42121** **R10** **Set No. 2**

IV B.Tech II Semester Regular/Supplementary Examinations, April/May - 2016

SOFTWARE PROJECT MANAGEMENT

(Information Technology)

Time: 3 hours **Max. Marks: 75**

Answer any FIVE Questions
All Questions carry equal marks
*****

1 a) What are the five necessary improvements for the waterfall model? Explain. [8]
b) Explain in detail about the three generations of software economics. [7]

2 a) Define the term process and also explain the three levels of process along with their attributes. [5]
b) Give the modern process approaches for solving the conventional problems. [10]

3 a) Give the primary objectives and essential activities of Inception phase. [8]
b) Discuss in detail the artifacts captured in the Engineering set. [7]

4 a) Explain about technical perspective of model-based architecture. [8]
b) Define the term Workflow. Give the list of seven top-level workflows and also explain the relative levels of effort expected across the phases in each of the top level workflows. [7]

5 What are the major milestones that occur in the life-cycle phases? With a neat table explain in detail the general status of plans, requirements, and products across the four major milestones. [15]

6 a) Discuss various activities of a software architecture team over the project life cycle. [8]
b) Discuss stakeholder environments. [7]

7 a) Explain in detail about the four quality indicators of a software product. [8]
b) Discuss the priorities for tailoring the process framework. [7]

8 a) Explain the key differences between the process profiles of a healthy modern project and a conventional project. [8]
b) Discuss various culture shifts that are necessary to transition successfully from conventional practice to a modern software management process. [7]

Code No: **R42121** **R10** **Set No. 3**

IV B.Tech II Semester Regular/Supplementary Examinations, April/May - 2016

SOFTWARE PROJECT MANAGEMENT

(Information Technology)

Time: 3 hours **Max. Marks: 75**

Answer any FIVE Questions

All Questions carry equal marks

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1 a) List and Explain the Boehm's top 10 quotations for the conventional software management performance. [15]

2 a) With an example, explain how software reuse helps in reducing the software product size. [8]

b) State and Explain the top five principles of modern software management. [7]

3 a) What are primary objectives and essential activities of Elaboration phase? And also discuss why Elaboration phase is most critical in the life-cycle process. [10]

b) Give the life-cycle evolution of the artifact sets. [5]

4 a) What do you mean by Software architecture? Discuss the importance of software architecture and it's linkage with modern software development process. [8]

b) What is a workflow? List top-level workflows and Explain iteration workflows. [7]

5 a) Explain the minor milestones in the life cycle of an iteration process. [8]

b) Discuss the Evolutionary Work Breakdown Structures. [7]

6 Explain in detail the responsibilities of the four component teams in a default line-of-business organization. [15]

7 a) Discuss various management indicators. [8]

b) What are the various sources of architectural risk and also give the process discriminators that result from differences in architectural risk. [7]

8 a) State and explain the nine best practices for software management. [10]

b) Write about the Next generation cost models. [5]

Code No: **R42121** **R10** **Set No. 4**

IV B.Tech II Semester Regular/Supplementary Examinations, April/May - 2016

SOFTWARE PROJECT MANAGEMENT

(Information Technology)

Time: 3 hours **Max. Marks: 75**

Answer any FIVE Questions

All Questions carry equal marks

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1	a)	Explain about the Waterfall model in practice.	[8]
	b)	Discuss the pragmatic software cost estimation.	[7]
2	a)	Explain the Key practices that improve overall software quality.	[8]
	b)	With a neat sketch, explain the top five principles of a modern process	[7]
3	a)	Give the primary objectives and essential activities of Transition phase?	[3]
	b)	Write engineering artifacts available at the life-cycle architecture milestone.	[12]
4	a)	Explain about management perspective of model-based architecture.	[8]
	b)	With a table, Explain the allocation of artifacts and the emphasis of each workflow in each of the life-cycle phases.	[7]
5	a)	Why periodic status assessment is required in the software development process? Give the default content of status assessment reviews.	[8]
	b)	Discuss various issues related to Conventional Work Breakdown Structures.	[7]
6	a)	Discuss various activities of a software development team over the project life cycle.	[8]
	b)	What is the need for process automation? Give the typical automation and tool components that support the process work flows.	[7]
7	a)	Define MTBF and maturity. Draw a graph for maturity expectation over a healthy project's life cycle.	[8]
	b)	Explain the key differences in the process primitives for varying levels of domain experience.	[7]
8	a)	Write about the Top10 software management principles.	[8]
	b)	What is the crucial mechanism for promoting team work among stakeholders? Explain.	[7]