Code No: **R4105B**

R10

Set No. 1

IV B.Tech I Semester Supplementary Examinations, Feb/Mar - 2015
SOFTWARE PROJECT MANAGEMENT
(Computer Science and Engineering)

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

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

1		Explain the evolution of waterfall model in detail	[15]
2	a)	What is a process? Explain the three levels of process and their attributes.	[8]
	b)	Give the modern process approaches for solving conventional problems.	[7]
3	a)	Explain the first two phases of the life-cycle process.	[8]
	b)	Explain the evolution of the life-cycle of artifact sets.	[7]
4		What is the sequence of individual iteration's workflow?	[15]
5	a)	Discuss about initial operational capability milestone and product release mile-stone	[8]
	b)	Discuss the conventional work breakdown structure issues.	[7]
6		Explain in detail the responsibilities of the four component teams in a default line-of-business organization.	[15]
7	a)	Explain management indicators	[8]
	b)	Define MTBF and maturity. Draw a graph for maturity expectation over a healthy project's life cycle.	[7]
8		Discuss Next generation cost models in detail	[15]

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1	a)	Discuss the results of conventional software project design reviews	[8]
	b)	Explain in detail about the three generations of software economics.	[7]
2		State and explain the principles of conventional Software Engineering.	[15]
3	a)	Describe Construction and Transition phase.	[8]
	b)	Write engineering artifacts available at the life-cycle architecture milestone.	[7]
4		Explain about technical perspective of model-based architecture.	[15]
5	a)	Explain the minor milestones in the life cycle of an iteration.	[8]
	b)	Explain the iteration planning process.	[7]
6	a)	With a neat diagram, explain the software project team evolution.	[8]
	b)	What is the need for process automation? Explain.	[7]
7	a)	Explain about quality indicators.	[8]
	b)	Explain process discriminators that results from differences in domain experience.	[7]
8		Write short note on	
		i) Continuous integration	[5]
		ii) Evolutionary requirements	[5]
		iii) Next generation project performance.	[5]

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1 a) List the Boehm's top 10 quotations for the conventional software management
       performance.   [8]
   b) Explain the predominant cost estimation process.   [7]

2 a) With a neat sketch, explain the top five principles of a modern process [8]

   b) What are the key practices that improve the overall software quality? Explain. [7]

3 a) What are primary objectives and essential activities of inception phase? [8]

   b) Discuss about pragmatic artifacts.   [7]

4 a) What is a model? Explain about the management perspective of model-based
       architecture.   [8]
   b) What is a workflow? Explain about software process workflows.   [7]

5   With a neat table explain in detail the general status of plans, requirements,
       and products across the major milestones.   [15]

6 a) Explain the Round trip engineering.   [8]

   b) What are the activities of Software Development team?   [7]

7 a) Discuss Seven core metrics in detail.   [8]

   b) Define architectural risk. Write process discriminators that result from
       differences in architectural risk.   [7]

8 a) Write about the Top10 software management principles.   [8]

   b) Explain the culture shifts of modern process transition.   [7]

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1   Define software process model. Explain waterfall model in theory.   [15]

2 a) How to reduce software product size? Explain in detail   [8]

   b) How to improve team effectiveness? Explain.   [7]

3 a) What are primary objectives and essential activities of elaboration phase?   [8]

   b) Discuss in detail about the artifacts captured in the Engineering set.   [7]

4   Explain about technical perspective of model-based architecture.   [15]

5 a) Explain the typical minor milestones in the lifecycle of iteration.   [8]

   b) Discuss about periodic status assessment.   [7]

6 a) Write about the three discrete states in the evolution process of the project
       environment.   [8]
   b) Explain the stakeholder environments.   [7]

7 a) Write about pragmatic software metrics.   [8]

   b) Explain the process discrimination that result from differences in process
       maturity.   [7]

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

   b) What is the crucial mechanism for promoting team work among stakeholders?
       Explain.   [7]