

Code No: **R4105B**

R10

Set No. 1

IV B.Tech I Semester Regular/Supplementary Examinations, Nov/Dec - 2015

SOFTWARE PROJECT MANAGEMENT

(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 75

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

- 1 a) Explain Waterfall model in practice. [8]
b) How to estimate cost in software economics? Explain the three generations of software economics. [7]
- 2 a) List out important trends in improving software economics. [8]
b) Write about the top five principles of a modern process. [7]
- 3 a) State and explain the reasons for the failure of conventional and iterative processes? [8]
b) Define Artifact. Write in detail about Management Artifacts. [7]
- 4 a) Explore the different aspects of Architecture from management perspective. [8]
b) Draw and explain the workflow of an iteration in workflows of the process. [7]
- 5 Write about
a) Major milestones
b) Minor milestones
c) Periodic status assessments [15]
- 6 a) Write an overview of software project team evolution over the life cycle. [8]
b) Discuss in brief about Round-Trip Engineering [7]
- 7 a) What are the Management Indicators recommended for a software project? [8]
b) Illustrate two dimensions of process discriminants. [7]
- 8 a) Discuss Next-generation cost models in brief. [8]
b) Write about the effect of the overall life-cycle philosophy on the 80/20 lessons learned over the past 30 years. [7]

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Set No. 2

IV B.Tech I Semester Regular/Supplementary Examinations, Nov/Dec - 2015

SOFTWARE PROJECT MANAGEMENT

(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 75

Answer any FIVE Questions

All Questions carry equal marks

- 1 a) Discuss in detail about conventional software management performance. [8]
b) What constitutes a good estimate? Explain. [7]
- 2 a) Explain the principles of modern software management. [8]
b) Classify three levels of process and their attributes in improving software process. [7]
- 3 a) Write a short notes on
i) Engineering stage ii) Production stage [8]
b) Write an overview of the Artifact sets. [7]
- 4 a) Architecture, an organized and abstracted view into the design models. Explain. [8]
b) List and explain the seven top-level workflows in software process workflows. [7]
- 5 a) Write in detail about the iteration planning process throughout the life cycle. [8]
b) Write short notes on minor milestones of a software process. [7]
- 6 a) Explain the primitive components of a software change order in project environment. [8]
b) What are the default roles in a software line-of-business organization? [7]
- 7 a) What are the Quality Indicators that measure software change across the project? [8]
b) Explain about the process discriminators that result from differences in project size and stakeholder cohesion. [7]
- 8 a) Exploit several critical approaches of modern process framework. [8]
b) Write short notes on Modern Software Economics. [7]

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Set No. 3

IV B.Tech I Semester Regular/Supplementary Examinations, Nov/Dec - 2015

SOFTWARE PROJECT MANAGEMENT

(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 75

Answer any FIVE Questions

All Questions carry equal marks

- 1 a) "Five improvements to the basic waterfall process that would eliminate most of the development risks". Explain. [8]
b) Explain Barry Boehm's "Industrial Software Metric Top 10 List". [7]
- 2 a) Explain the principles of conventional software engineering. [10]
b) Write short notes on Boehm staffing principles. [5]
- 3 a) Explain the life cycle phases of a process in detail. [8]
b) Define Artifact. Write in detail about Engineering Artifacts. [7]
- 4 a) Is Architecture the most critical technical product of a software project? Explain. [8]
b) Define workflow. Figure out and explain activity levels across the life cycle phases. [7]
- 5 What are the three sequences of project check points used to synchronize stakeholders expectations throughout the life cycle? Explain. [15]
- 6 a) Explain the following
i) Software management team activities ii) software architecture team activities [8]
b) What are the tools available to automate the software development process? [7]
- 7 a) Write an overview of the seven core metrics. [8]
b) What are the priorities for tailoring the process framework? [7]
- 8 a) Discuss Next-generation cost models in brief. [8]
b) Figure out the risk profile of a typical modern project across its life cycle. [7]

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Set No. 4

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

Time : 3 hours

Max. Marks: 75

Answer any FIVE Questions
All Questions carry equal marks

- 1 a) Explain Waterfall model in theory. [8]
b) Explain about pragmatic software cost estimation in detail. [7]
- 2 Write in detail about five basic parameters of the software cost model in improving software economics. [15]
- 3 a) State and explain primary objectives and primary evaluation criteria of inception and elaboration phases. [8]
b) Define Artifact. Write in detail about Engineering Artifacts. [7]
- 4 a) Explain the artifacts and life-cycle emphases associated with each workflow? [8]
b) Write in detail about model based software architecture. [7]
- 5 a) Write short notes on major milestones of a software process. [8]
b) Project plans need to be derived from two perspectives: top-down and bottom-up approaches. Explain. [7]
- 6 What are the four important environment disciplines critical to management context and the success of a modern iterative development process? Explain. [15]
- 7 a) Explain the following
i) Management Indicators ii) Quality indicators [8]
b) Explain about the process discriminators that result from differences in process flexibility and process maturity. [7]
- 8 a) List and explain what are several culture shifts to overcome to transition successfully to a modern software management process. [8]
b) Write short notes on continuous integration in modern project profiles. [7]