Code No. N0525

R07

Set No.1

IV B.Tech I Semester Supplementary Examinations, February/March, 2012
SOFTWARE PROJECT MANAGEMENT
(Common to Computer Science & Engineering and
Information Technology)

Time: 3 hours   **Max. Marks: 80**

Answer any FIVE Questions
All Questions carry equal marks
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1. a) Discuss about waterfall model in practice.   [8]
   b) Explain about software economics in detail.   [8]

2. a) Discuss about transitioning to an iterative process.   [6]
   b) How to achieve required quality? Explain   [6]
   c) How to staff a software project? Explain.   [4]

3. a) Write and explain the principles of conventional software engineering.   [8]
   b) What are production stage phases? Explain in detail.   [8]

4. a) What are test artifacts? Explain.   [5]
   b) Discuss about pragmatic software.   [5]
   c) Discuss about model based architecture in a management perspective.   [6]

5. a) How do immovable milestones and synchronization points differ?   [8]
   b) Develop formats for recording meeting notes and for email status reports.
      Justify your format for each by considering how much time will be needed to
      use these formats and how these notes and reports will be archived.   [8]

6. a) Define meta process, macro process and micro process.   [6]
   b) Discuss about the activities of software management team.   [6]
   c) Explain CCB.   [4]

7. a) Define earned value system and explain its parameters.   [8]
   b) What are the two primary dimensions of process variability?   [4]
   c) Explain domain experience.   [4]

8. a) Explain denouement.   [8]
   b) Explain DOD-STD-2167A artifacts.   [8]

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Code No. N0525

R07

Set No.2

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Time: 3 hours   **Max. Marks: 80**

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. [8]

2. a) What are the principles of modern software management? Explain. [8]
   b) What are the three levels of process and their attributes? [4]
   c) Explain peer inspections. [4]

3. a) What are the principles of modern software management? Explain. [6]
   b) Discuss about transitioning to an iterative process. [5]
   c) What are engineering stage phases? Explain. [5]

4. a) Discuss about management artifacts. [8]
   b) Discuss about model based architecture in a technical perspective. [8]

5. a) What are elicit stakeholder requirements? [4]
   b) If a periodic process in the on-board train protection system is used to collect data from the track side transmitter, how often must be scheduled to ensure that the system is guaranteed to collect information from the transmitter? Explain how you arrived at your answer. [12]

6. a) What are the four component teams in a default project organization and their responsibility? [8]
   b) How does the emphasis in the four teams evolve over the course of the entire project? [8]

7. a) Define change traffic, stability, breakage, modularity, rework and adaptability. [12]
   b) Explain stakeholder cohesion. [4]

8. a) Explain software size evolution of CCPDS-R. [8]
   b) "Only about 15% of software development effort is devoted to programming". Discuss. [4]
   c) Explain builds sequence of CCPDS-R. [4]

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Code No. N0525 **R07** **Set No.3**

IV B.Tech I Semester Supplementary Examinations, February/March, 2012
SOFTWARE PROJECT MANAGEMENT
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Information Technology)

Time: 3 hours **Max. Marks: 80**
Answer any FIVE Questions
All Questions carry equal marks
*****

1. a) Discuss about conventional software management performance. [5]
    b) What are five necessary improvements for waterfall model? Explain. [5]
    c) Discuss about software economics in brief. [6]

2. a) Delineate the process of reducing software product size. [8]
    b) Discuss about to improve team effectiveness. [8]

3. a) What are primary objectives and essential activities of elaboration phase? [4]
    b) Describe engineering artifacts. [4]
    c) Discuss in detail about the artifact sets. [8]

4. a) What are iteration workflows? Explain. [8]
    b) Explain about technical perspective of model-based architecture. [8]

5. a) Which milestone occurs at the end of the elaboration phase? Explain. [8]
    b) What is the information structure of WBS? [4]
    c) What kind of questions cannot be answered by most project teams that use
       conventional WBS's? [4]

6. a) List the steps needed to manage the culture of a project. [8]
    b) What are the typical components of an organization's automation building blocks? [4]
    c) Explain the requirements of automation building blocks. [4]

7. a) What are the differences in workflow priorities between small and large projects? [6]
    b) Discuss about automation of metrics. [10]

8. Explain the following with respect to CCPDS-R:
    i). People factors [8]
    ii). b) DOD-STD-2167A artifacts [8]

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Code No. N0525 **R07** **Set No.4**

IV B.Tech I Semester Supplementary Examinations, February/March, 2012
SOFTWARE PROJECT MANAGEMENT
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Time: 3 hours Max. Marks: 80

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

1. a) What are popular cost estimation models? Explain the predominant cost estimation
   process. [8]
   b) Explain about the Waterfall model in practice. [8]

2. a) Discuss about reducing software product size. [5]
   b) Explain about improving automation through software environments. [5]
   c) What are key practices that improve overall software quality? Explain. [6]

3. a) Explain about artifact evolution over the life cycle. [6]
   b) What are engineering artifacts? Explain. [6]
   c) Explain about construction phase. [4]

4. a) What are software process workflows? Explain. [8]
   b) Explain about technical perspective of model-based architecture. [8]

5. a) Write six-iteration profile. [4]
   b) Conventional WBS's are prematurely structured around the product design. Discuss. [4]
   c) Discuss about planning guidelines. [8]

6. a) Explain about the process capability baseline. [8]
   b) Write typical skills required for software development team. [8]

7. a) What are the advantages of measurement? [6]
   b) Discuss about process discriminants. [10]

8. a) What are the technology improvements of CCPDS-R? [8]
   b) Write a table for common subsystem CSCI sizes. [4]
   c) Write 80/20 lessons. [4]

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