

Code No: N0525/R07

**Set No. 1**

**IV B.Tech I Semester Supplementary Examinations, March 2013**  
**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. What is adversarial stakeholder relationship? Explain. [16]
2. Explain in detail the five basic parameters of the software cost model? [16]
3. Describe the primary objectives, essential activities and primary evaluation criteria of the inception phase? [16]
4. Explain in detail the four phases (Inception, Elaboration, construction and transition). [16]
5. What are advantages and disadvantages of software reuse? Explain in detail. [16]
6. (a) Define round-trip engineering. What is the primary reason for round-trip engineering? Explain.  
(b) What are the stakeholder environments? Explain. [8+8]
7. (a) What is an indirect measure? Why such measures are common in software metrics work?  
(b) Present an argument against lines of code as measure for software productivity. Will your case hold up when dozens or hundreds of projects are considered? [8+8]
8. (a) Explain continuous integration.  
(b) Give the context of CCPDS-R. [8+8]

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1. Give an overview of, how a return of investment profile can be achieved in subsequent efforts across the life cycle of various domains? [16]
2. Summarize the characteristics of a successful object oriented project? [16]
3. Provide a default outline for release description? [16]
4. Compare and contrast a model and a view with appropriate example. [16]
5. (a) What are elicited stakeholder requirements?  
(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? Justify your answer? [4+12]
6. (a) An organization has detected low job satisfaction in the following departments:
  - i. the system testing group
  - ii. the computer application helpdesk
  - iii. compute batch inputHow could these jobs be redesigned to give more job satisfaction?  
(b) Explain the following organizational structures:
  - i. Formal versus informal structures
  - ii. Departmentalization
  - iii. Chief programmer teams. [8+8]
7. Team A found 342 errors during the software engineering process prior to release. Team B found 184 errors. What additional measures would have to be made for projects A and B to determine which of the teams eliminated more efficiently? What metrics would you propose to help in making the determination? What historical data might be useful? [16]
8. (a) Explain software size evolution of CCPDS-R.  
(b) "Only about 15% of software development effort is devoted to programming". Discuss.  
(c) Explain builds sequence of CCPDS-R. [8+4+4]

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**Set No. 3**

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**( 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. List some of the technological developments, process improvement efforts and management approaches targeted at improving the economics of software development and integration? [16]
2. Explain in detail the five basic parameters of the software cost model? [16]
3. Describe the primary objectives, essential activities and primary evaluation criteria of the construction phase? [16]
4. Describe the various types of joint management reviews conducted throughout the process. [16]
5. (a) What is the benefit of making commitments and dependencies between people rather between people and products.  
(b) How does a software project outline compare with a software development team? [6+10]
6. (a) What are the typical components of the organizational infrastructure?  
(b) What are project environment artifacts? Explain.  
(c) What are the four important environment disciplines? [6+6+4]
7. (a) Explain quality indicators.  
(b) Explain contention. [8+8]
8. (a) Discuss about culture shifts.  
(b) Explain the incremental test process. [8+8]

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**Set No. 4**

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**Max Marks: 80**

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

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1. Describe the basic parameters that can be used for the abstraction of the software cost models? [16]
2. What is round trip engineering compare it with reverse engineering? [16]
3. Provide the default agendas for the life cycle architecture milestone? [16]
4. Describe the cultural issues raised in allowing online review of the native information source by using smart browsing and navigation tools. [16]
5. A public library department is considering the implementation of a computer-based system to help administer book loans at libraries. Identify the stakeholders in such a project. What might be the objectives of such a project and how might the success of the project be measured in practical terms? [16]
6. (a) An organization has detected low job satisfaction in the following departments:
  - i. the system testing group
  - ii. the computer application helpdesk
  - iii. compute batch inputHow could these jobs be redesigned to give more job satisfaction?  
(b) Explain the following organizational structures:
  - i. Formal versus informal structures
  - ii. Departmentalization
  - iii. Chief programmer teams. [8+8]
7. (a) What three tasks do you need to do well to ensure effective measurements?  
(b) What four steps should you take select measurement?  
(c) Discuss about budgeted cost and expenditures. [6+6+4]
8. (a) Explain test progress of CCPDS-R.  
(b) What are top 10 software metrics? Explain. [8+8]

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