

Code: 9A05707

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B.Tech IV Year II Semester (R09) Regular Examinations, March/April 2013

SOFTWARE PROJECT MANAGEMENT
(Computer Science & Systems Engineering)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions.
All questions carry equal marks.

- 1 (a) Explain and criticize waterfall model.
(b) Explain how the software ROI has been influenced by the advancement in technology.
- 2 Explain how the following factors help in improving the software economics and the process to achieve them.
(i) Improving the software process.
(ii) Improving the automations.
- 3 Explain about the primary objectives, essential activities and evaluation criteria for the following stages of life cycle process.
(i) Elaboration phase.
(ii) Transition phase.
- 4 Explain in detail about the management artifacts.
- 5 Write in detail about the evolutionary work break down structure.
- 6 Explain in detail about the change management and its automation in the modern life cycle process.
- 7 Explain about differences of the following tasks in case of small scale and large scale projects.
(i) Schedule distribution across the phases.
(ii) Work flow priorities.
(iii) Artifact set.
- 8 Write in detail about the next generation software cost models.

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- 1 (a) Explain in detail about pragmatic software cost estimation.
(b) Discuss about the effects of adversarial stakeholder relationships on project that is developed using conventional model.
- 2 Explain in detail about how various methods/techniques/technologies can help in reducing the software product size.
- 3 Explain about any 15 principles at conventional software engineering along with your own criticism and examples, if any one suitable.
- 4 Explain in detail about the engineering artifacts.
- 5 (a) Write about the conventional work break down structure. Justify the conventional WBS is project specific and cross project comparisons are usually difficult or impossible.
(b) Explain about the importance of periodic status assessments.
- 6 (a) Discuss in brief about round trip engineering.
(b) Explain in detail about the organization policy and environment.
- 7 Explain in detail about various management indicators for assessing a project.
- 8 (a) Discuss in brief about the CCPDS-R's CSCI quality and productivity.
(b) Discuss about the software size evolution of the CCPDS-R.

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- 1 Discuss in detail about the effects of the following on a project that is developed using conventional model.
 - (i) Protracted integration and late design breakage.
 - (ii) Late risk resolution.
 - (iii) Focus on documents & review meeting.
 - (iv) Requirements driven functional decomposition.
- 2 Explain how the following factors help in improving the software economics and the process to achieve them.
 - (i) Improving the team effectiveness.
 - (ii) Achieving the required quality.
- 3 Explain how the process exponent parameters of COCOMO II model can be mapped to the top 10 principles of modern software management.
- 4 Classify and discuss about various artifact sets of a modern life cycle.
- 5
 - (a) Write about the planning of an iteration in each phase of the life cycle process.
 - (b) Discuss in brief about the project planning guidelines.
- 6
 - (a) Explain about the roles and responsibilities of various authorities/persons in a default line of business organization.
 - (b) Write about the evolution of software project team over the life cycle process.
- 7 Explain in detail about the software metrics automation.
- 8 Explain in detail about the following in case of CCPDS - R project.
 - (i) Software acquisition process.
 - (ii) Overview of the common subsystem products.

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- 1 List out the Bary Boehm's "Industrial software metrics top 10 list", along with the comments of Walker Royce and your own criticism/support.
- 2 Explain in detail about the various methods/techniques/technologies that can help in reducing the software product size.
- 3 Explain about the primary objectives, essential activities and evaluation criteria for the following stages of life cycle process.
 - (i) Inception phase.
 - (ii) Construction phase.
- 4 Explain in detail about the evolution of artifact sets over the life cycle process.
- 5
 - (a) What is importance of periodic status assessments? Explain in brief.
 - (b) Explain in brief about the minor milestones of a life cycle process.
- 6 Explain in detail about the need and automation tools required by different process work flows.
- 7 Explain in detail about the role of the following process discriminants in tailoring the process to the specific domain or project.
 - (i) Scale of the project.
 - (ii) Process flexibility or rigor.
 - (iii) Process maturity.
- 8 Explain about the various indicators that are considered in assessing the cultural shifts that must be overcome to make transition of a software project to a modern management process.
