(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 110852

Roll No.

B. Tech.

(SEM. VIII) THEORY EXAMINATION, 2014-15

SOFTWARE PROJECT MANAGEMENT

Time : **3** Hours] [Total Marks : **100**

1 Attempt any four parts of the following: (5×4=20)

(a) What do you mean by Software project estimation.

(b) What do you mean by Project Plan. Also discuss types of project plans.

(c) When does the software planning activity start and end in software life cycle? List some important activities that a software project manager performs during software project planning.

(d) Discuss the structure of a Software Project Management Plan (SPMP) in detail.

(e) Give Various estimation models. Describe any one of the estimation model using suitable examples.

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2 Attempt any four parts of the following: (5×4=20)

(a) What do you mean by Work Breakdown Structure (WBS) in context to software project and product? Discuss with examples.

(b) Discuss the concept of PERT /CPM schedule along with example.

(c) Explain Waterfall model and its limitations.

(d) Explain various advantages of Milestone Charts and Gantt Charts.

(e) What do you mean by Project Life Cycle and Product Life Cycle

3 Attempt any four parts of the following: (5×4=20)

(a) Discuss the role of cost estimation in a software development project. Briefly explain COCOMO model for cost estimation for all category of projects.

(b) Explain various problems with software projects in detail.

(c) Write down the Outline of stepwise planning activities.

(d) Differentiate between Cost Variance (CV) and Schedule Variance (SV),

(e) What do you mean by earned value analysis and earned value indicators? Discuss various earned value indicators with examples.

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4 Attempt any two parts of the following: (10×2=20)

(a) Write a short note on SEI Capability Maturity Model (CMM). How does it differ from ISO 9000 ?

(b) Discuss about types of testing and levels of software testing.

(c) Develop your own metrics for Correctness, maintainability, integrity and usability of software. What is Statistical Quality Assurance (SQA)?

5 Attempt any two parts of the following: (10×2=20)

(a) List and discuss some of the points specific for identifying the risks during software development. Also give some of the category of Risks that are to be identified.

(b) Explain

(i) Risk monitoring

(ii) Cost Benefit analysis

(c) Explain Software Configuration Items, tasks and Baselines.

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