

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

PAPER ID : 2526

Roll No.

--	--	--	--	--	--	--	--	--	--

B.Tech.**(SEM. VI) THEORY EXAMINATION 2011-12
SOFTWARE PROJECT MANAGEMENT***Time : 3 Hours**Total Marks : 100***Note :— Attempt *all* questions.**

1. Answer any *two* parts :— **(10×2=20)**
- (a) Define software project management. Describe the software project management cycle in detail with suitable diagrams.
- (b) What do you mean by function points (FPs) ? Why FPs are becoming acceptable in industry ? Also compute the function point value for a project with the following information domain characteristics :

Number of user inputs = 30

Number of user outputs = 42

Number of user enquiries = 08

Number of files = 07

Number of external interfaces = 06

Assume that all complexity adjustments values are moderate.

- (c) (i) Write short note on the COCOMO Model.
- (ii) How planning for a software project is different from planning for any other engineering project ?
2. Answer any *two* parts :— (10×2=20)
- (a) Describe the following with example and also give the significance of each :
- (i) PERT
- (ii) CPM.
- (b) (i) What is the difference between the milestone chart and Gantt chart ? Discuss.
- (ii) Discuss various steps to select software project team.
- (c) (i) What is motivation ? Describe some models of motivation.
- (ii) How to build a project schedule ? Explain.
3. Answer any *two* parts :— (10×2=20)
- (a) What is meant by earned value analysis and earned value indicators ? What is the significance of these ? Discuss various earned value indicators with examples.
- (b) (i) What do you mean by error tracking ? Explain with examples. Does it affect the SPM schedule ?
- (ii) Write a short note on pair programming.
- (c) What do you mean by the software reviews ? How software review is carried out ? Discuss any two software review methods.

4. Answer any *two* parts :— (10×2=20)
- (a) What is the difference between white box and black box testing ? Is determining test cases easier for black box testing or white box testing ? Discuss with some example. Is it correct to claim that if white box testing is done properly, it will achieve close to 100% path coverage ? Explain.
- (b) (i) Is unit testing possible or even desirable in all circumstances ? Justify your answer with suitable example.
- (ii) Differentiate between alpha testing and beta testing.
- (c) What do you mean by software quality ? Explain. Discuss various software quality metrics and indicators.
5. Answer any *two* parts :— (10×2=20)
- (a) (i) Discuss the role of change request management in software project management.
- (ii) What do you mean by risk ? Is it always necessary to identify the risks in a software project ? Explain.
- (b) Describe the following with example :
- (i) Baselines
- (ii) Risk management process.
- (c) Write short notes on the following :—
- (i) Role of SCM in SPM
- (ii) CASE Tools.