Printed Pages—3   **EIT601**

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

PAPER ID : 2526   **Roll No.** [ ][ ][ ][ ][ ][ ][ ][ ][ ]
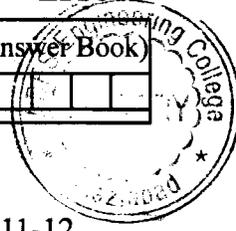
B.Tech.

(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.

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(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.

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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.

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