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**CS/IT-7103**

**B. E. (Seventh Semester) EXAMINATION, June, 2007**

(Common for CS & IT Engg.)

**SOFTWARE PROJECT MANAGEMENT**

(Elective – I)

*Time : Three Hours*

*Maximum Marks : 100*

*Minimum Pass Marks : 35*

**Note :** Attempt any *five* questions. All questions carry equal marks.

1. (a) Is CMM a software process model ? Justify your answer by giving suitable reasons.  
(b) Explain briefly the various KPAs at maturity level of CMM.
2. (a) What are the advantages of software metrics ? List at least *five* advantages.  
(b) The decision made by senior management can have a significant impact on the effectiveness of a software engineering team. Provide *five* examples to illustrate that this is true.
3. (a) What are the steps to estimating product size, schedule and effort ? Discuss in brief.  
(b) What are the advantages and disadvantages of estimating software cost ?

4. (a) Explain briefly different techniques of software cost estimation.  
(b) Identify at least *ten* risks that can result into project failure or delay.
5. (a) What is SCM ? Explain SCM process in detail.  
(b) Use the COCOMO model to estimate the home security system software. Assume that the basic model is applicable.
6. (a) Explain the following :  
(i) Status reporting  
(ii) Monitoring and control  
What do you understand by milestone recording and their analysis ?
7. (a) Draw a general architecture of a CASE environment. Explain its important characteristics.  
(b) List some popular CASE tools supporting stages of software life cycle.
8. Write short notes on any *four* of the following :  
(i) Software process improvement  
(ii) Knowledge Based Management  
(iii) Feasibility analysis  
(iv) Defect analysis and prevention  
(v) Software project management standards  
(vi) Client/Server software engineering