

MCA (Revised)**Term-End Examination****December, 2008****MCS-034 : SOFTWARE ENGINEERING***Time : 3 hours**Maximum Marks : 100**(Weightage 75%)*

Note : *Question number 1 is compulsory. Attempt any three questions from the rest.*

1. (a) Define the term "Baseline". Explain the process of changing a Baseline. **10**
- (b) What are the shortcomings of Waterfall Model ? How they are overcome in the Iterative Enhancement Model? Explain. **10**
- (c) Draw and explain the Risk Manager Tool. **10**
- (d) Discuss the role of various CASE tools helping in the effective management of teams and projects. **10**

2. (a) Explain the functionality of Coupling and Cohesion used in modular design. Give disadvantages of low Cohesion and high Coupling. 10
- (b) How can formal methods be used to specify aspects of a system other than the functionality ? Also, list some of the areas where the formal specifications can be applied. 10
3. (a) With the help of a suitable example program, explain the "Boundary-Value Analysis" testing strategy by deriving boundary conditions. 10
- (b) Explain the process of estimating the cost of a Software Project. 10
4. (a) Explain characteristics of a web based application. Explain the organisation of web application Teams. 10
- (b) Explain any five attributes of Software Quality. Mention any two Software Quality Standards. 10

5. Suppose if you are given the task to automate the activities of your study center, perform the following : 20

- (a) Derive the systems requirements.
- (b) Develop the SRS document.
- (c) Draw the DFD's till level - 2.
- (d) Design an ER - diagram.

Note : Make assumptions wherever necessary, but list them.

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