

## MCA (Revised)

Term-End Examination

June, 2009

10840

## MCS-034 : SOFTWARE ENGINEERING

Time : 3 hours

Maximum Marks : 100

(Weightage 75%)

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*Note : Question No. 1 is Compulsory. Attempt any three questions from the rest.*

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1. (a) What is the significance of Software Engineering ? Discuss salient features of Spiral Model. For what type of Projects is Spiral Model suitable ? 10
  - (b) Construct Level-0 and Level-1 diagrams for the procedures followed in a restaurant in supplying food to the customer. Make necessary assumption.. 10
  - (c) Explain the categories of risk management. 10
  - (d) Explain various steps in the process of requirements engineering. 10
  2. (a) Explain all rules for Human Computer Interface design. 10

- (b) How is cyclomatic complexity computed ? 10  
Calculate cyclomatic complexity for the program to find the greatest of three numbers.
3. (a) Explain the process of performing Black Box Testing. 10  
(b) Explain any two Software Quality Standards. 10
4. (a) Explain the factors that affect deployment of CASE tools in an organization. Also, discuss one characteristic of successful CASE tools. 10  
(b) With the help of a diagram, explain the process of clean room Software Engineering. 10
5. Explain the following terms with suitable examples : 2x10  
(a) S/W Reliability  
(b) Reverse Engineering

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