

MCA (Revised)
Term-End Examination

December, 2009

12164

MCS-034 : SOFTWARE ENGINEERING

Time : 3 hours

Maximum Marks : 100

(Weightage 75%)

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

1. (a) Explain the various phases of SDLC. Briefly explain the proto-typing model. 10
- (b) Discuss the importance of DFD over ER Diagram. Develop level-0 DFD and level-1 DFD for a library Management System. 4+3+3
- (c) What is Formal Methods ? Explain the Goals of Formal Specification in detail. 10
- (d) What do you mean by scheduling of a S/W Project. Discuss any two types of scheduling techniques used in Software Engineering. 10

2. (a) Write the complete structure of Software Requirements Specification (SRS). 10
- (b) Define cohesion and coupling. Explain briefly the various types in each of them. 10
3. (a) Explain the steps involved in debugging. 10
- (b) Explain COCOMO Model in detail. 10
4. (a) Explain the Software Change request format, Engineering Change order format and Software Change report format. 10
- (b) Briefly, explain different characteristics of a web application. 10
5. Write short notes on the following : 20
- (a) CASE TOOLS.
- (b) S/W Quality.
- (c) Mobile S/W Engineering.
- (d) Cyclomatic complexity.

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