

13533

MCA (Revised)
Term-End Examination
December, 2010

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) What are the different Levels of capability Maturity Model ? Explain, each of the levels. 10
- (b) Explain COCOMO Model in detail, with appropriate example. 6
- (c) What is Software Review ? What are the various types of Software Review? Explain in brief. 6
- (d) Briefly explain the software change request format and software change report format. 6
- (e) Differentiate DFD and Flow chart clearly. 6
- (f) Identify three attributes of software quality and explain in brief. 6

2. (a) Explain the Spiral Model? What are the advantages and disadvantages of Spiral Model? 10
- (b) What do you mean by the term Prototype? What are the problems and merits of Prototyping? Explain. 10
3. (a) Explain coupling and cohesion with examples. which is more desirable in SE and why? 10
- (b) Discuss in detail about the steps involved in debugging. 10
4. (a) Explain in detail the factors affecting the task set for the project. 10
- (b) Define the term risk? How it is related to Software Engineering? 10
5. (a) Discuss about the Software reuse and its types in detail. 10
- (b) What is mutation testing and how it can be implemented? Explain with an appropriate example. 10
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