

**BACHELOR IN COMPUTER
APPLICATIONS**

Term-End Examination

December, 2010

13433

**CS-70 : INTRODUCTION TO SOFTWARE
ENGINEERING**

Time : 3 hours

Maximum Marks : 75

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

1. (a) Differentiate between a spiral model and a waterfall model. Further discuss the exclusive significance of a spiral model. 8
- (b) Design a system for University library. 15
Draw DFD's for the system till level - 2 and also prepare the SRS document for the same. Mention the assumption made if any.
- (c) Design an ER diagram for above system. 7
Make assumptions if any. List all the entities along with their attributes and relationship.
2. (a) Who is a system Analyst ? Discuss the various skills required to be a system Analyst. 7

- (b) Why Software Safety and hazard analysis is a major concern ? Describe along with four Software Application Areas. 8
3. (a) Describe COCOMO model. Also explain its importance. 7
- (b) What do you mean by project outsourcing ? Explain with any two application of its implementation. 8
4. (a) Mention any five principles of S.E. 5
- (b) Explain software crisis from programmer's and user's point of view. 10
5. Explain the following terms : (any three) 15
- (a) Benchmark Testing
- (b) Top down and Bottom up design
- (c) UGL
- (d) Reverse engineering.
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