

**BACHELOR IN COMPUTER
APPLICATIONS**

Term-End Examination

June, 2011

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

Time : 3 hours

Maximum Marks : 75

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

1. (a) Design the following for a simple "Project Proposals Management System". The project proposals of BCA/MCA programmes are received at Regional centres, situated all over India. The final year students of BCA/MCA submit their project proposals to the respective regional centres in either of the 2 slots per year i.e., (i) Apr. - June and (ii) Oct - Dec. The submitted synopsis details are entered and a PP NO. will be issued to each of the synopsis. Further, they are funded into lots of 50 proposals and are sent for evaluation by the approved project proposal evaluators. After receiving from them, the

status and other remarks are noted and are sent back to the students.

- (i) Design the DFDs upto second level. 7
 - (ii) Prepare SRS document. List assumptions, if any. 5
 - (iii) Design an ER diagram. List all the entities, their attributes, cardinality, key constraints etc. 7
 - (iv) Draw PERT chart for the problem and show the critical path. 5
 - (v) Specify the s/w development life cycle model for the given specifications. Also explain briefly about the phases of the model. 6
2. (a) Discuss all the key process areas (KPA) associated with the five levels of Capability Maturity Model (CMM) 7
- (b) Explain the concept of project tracking with the help of the following charts : 8
- (i) Ideal Project progress chart
 - (ii) Usual Project progress chart.
3. (a) Discuss the role of a systems Analyst. What are the various attributes required to become an effective Systems Analyst ? 7
- (b) Define 4 GL. Discuss how 4GLS help to solve the complex problems. Also, mention their limitations. 8

4. (a) Discuss the concept of modularity with appropriate illustration. Also explain its significance. 7
- (b) What are the various categories of CASE tools ? What are their benefits ? Also, mention their limitations. 8
5. Write short notes on the following : 3x5=15
- (a) Software Reviews
- (b) Software upgradation
- (c) Software Crisis.
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