

**BACHELOR IN COMPUTER
APPLICATIONS**

Term-End Examination

June, 2012

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

Time : 3 hours

Maximum Marks : 75

Note : Question number one is compulsory.

Answer any three from the rest.

1. (a) What is need of different phases in SDLC ? 10
Explain in which phase of SDLC System Analysts are involved ? List the responsibilities of a System Analyst.
- (b) Design a System for Student's Record Management by an Engineering College. 10
Draw DFDs of system upto 2nd level. Also, briefly describe the processes of the system. Clearly mention the assumptions made if any.
- (c) What is Software testing ? Explain why 5
different types of testings are required for a Software System ?
- (d) What is adaptive maintenance ? Explain 5
how it is different from corrective maintenance ?

2. (a) What is need of Software System Development Scheduling ? Explain how scheduling is done in Flow Graph technique, with an example ? 10
- (b) Define 4GLs. Explain advantages of 4GLs over 3GLs. 5
3. (a) What is Software fault ? Explain how faults are detected found/in a Software System ? 5
- (b) What is Software reliability ? Explain the process of software review. Also explain how software review helps in finding software reliability ? 10
4. (a) Mention any five principles of Software Engineering. 5
- (b) Explain the following terms in the context of Software Engineering. 10
- (i) Debugger (ii) Repairability
- (iii) Verification (iv) User Interface.
5. (a) What is cohesion ? Is a more cohesive system considered good (Yes/No) Justify your answer. 5
- (b) What are CASE tools ? List various CASE tools in use. Explain briefly the advantages of using CASE tools. 10
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