

**BACHELOR IN COMPUTER  
APPLICATIONS****Term-End Examination****June, 2007****CS-70 : INTRODUCTION TO SOFTWARE  
ENGINEERING***Time : 3 hours**Maximum Marks : 75*

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

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1. (a) List the merits and demerits of Waterfall model. 5
  - (b) Design a system for the Hospital Management. Draw the content level and joint level data flow diagrams (DFDs) for the system and also prepare a SRS document for the same. Describe the necessary assumptions. 8
  - (c) Define GUI and explain its various components. What types of errors do you anticipate while designing a user interface ? 7
  - (d) Discuss the various steps to be followed for successful project implementation. 10

2. (a) For the creation of a quality product, a quality process is necessary. Describe how CMM ensures the quality of software development process. 6
- (b) Differentiate between following : 9
- (i) Testing and Debugging
  - (ii) Reverse Engineering and Re Engineering
  - (iii) Compiler and Interpreter
3. (a) Mention any five types of risks that a software development project faces and their management techniques. 10
- (b) Explain any five salient features of Object Oriented Programming with example. 5
4. (a) What is 4GL ? What are its limitations ? 5
- (b) Explain any two project scheduling techniques with examples. 10
5. Write short notes on the following with suitable example, if any : 15
- (a) Software Quality Assurance
  - (b) Software Crisis
  - (c) CASE Tools