

**BACHELOR OF COMPUTER APPLICATIONS
(BCA) (Pre-Revised)**

00206

Term-End Examination

June, 2018

**CS-05 : ELEMENTS OF SYSTEM ANALYSIS
AND DESIGN**

Time : 3 hours

Maximum Marks : 75

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

1. (a) Explain at least five duties that have to be carried out by a System Analyst. 5
- (b) What is SDLC ? Explain briefly all the phases of SDLC. 7
- (c) Explain at least three different approaches for software evaluation. 6
- (d) What are the different methods of fact finding ? Discuss Interviewing as a method for fact finding with an example. 10
- (e) Explain Transaction Processing System. 2

2. (a) Draw 0-level, 1-level and 2-level DFDs for a “Library Management System”. Make suitable assumptions. 10
- (b) Explain any five forms of software piracy in the world around us. 5
3. (a) Write a short note about the disaster recovery needs of any organization. Make necessary assumptions. 8
- (b) Discuss Benchmark Testing with the help of an example. 7
4. (a) A dialogue tree maps the static and dynamic messages that take place between the computer and the user. Construct a dialogue tree showing its branches for prompting the menu items of your choice. Make necessary assumptions. 8
- (b) Describe Software Crisis from the perspective of a user and a programmer. 7
5. (a) With the help of an example for each, explain the following tools : 3×3=9
- (i) Structured Flow Chart
- (ii) HIPO Diagrams
- (iii) Warnier/Orr Diagrams
- (b) What is a Green PC ? Explain the design of a Green PC. 6
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