CS-05

BACHELOR OF COMPUTER APPLICATIONS
(Pre-Revised)
Term-End Examination
December, 2014

01604

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) Prepare SRS for a "Library Management System" of a university. Make necessary assumptions.   *10*

    (b) Discuss the various phases involved in System Development Life Cycle.   *10*

    (c) Draw a Data Flow Diagram (DFD) upto level-2 depicting various processes, data flow and data repositories for a "Library Management System" of a university.   *10*

2. (a) Discuss the features and relative merits of system flow charts and decision tables. Give an example for each.   *8*

(b) Discuss the following with an example for each : 7

(i) Nassi-Shneidermann chart

(ii) PERT chart

3. (a) Describe the importance and characteristics of a good documentation in systems development process. 8

(b) Discuss the essential components of the Implementation Plan. 7

4. (a) List and explain the parameters that are responsible in considering the selection of programming languages, databases and other tools to develop a system. 8

(b) Construct a dialogue tree showing its branches for "Prompting the menu items" of your choice. Also, explain the significance of the dialogue-tree. 7

5. Write short notes on the following : 3×5=15

(i) Reliability and Maintenance of a System

(ii) Output Design Considerations

(iii) Data Dictionary