

**BCA (PRE-REVISED)**

**Term-End Examination**

**December, 2013**

03392

**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.*

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|----|-----|--|----|
| 1. | (a) | Draw 0 - level, 1 - level and 2 - level DFDs for a "Student Information System". Make assumptions, if any.     | 15 |
|    | (b) | Explain any two tasks that are performed in "Design" phase of the project.                                     | 10 |
|    | (c) | Explain the role of a System Analyst for a project.  | 5  |
| 2. | (a) | Perform requirements analysis for a "Library Management System". Make assumptions wherever necessary.          | 10 |
|    | (b) | Draw a Decision Table for a Leave Management System. Make assumptions, if necessary.                           | 5  |
| 3. | (a) | Draw ER diagram for a Library Management System. Make necessary assumptions.                                   | 8  |
|    | (b) | Design a form for the generation of a Salary Slip. Explain various elements of it. Make necessary assumptions. | 7  |

4. (a) Explain Sequential File Organization. 8  
(b) Explain any seven advantages of generating a report. 7
5. Write a short note on the following : 3x5=15  
(a) Decision Trees  
(b) Project documentation  
(c) Input Design
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