

No. of Printed Pages : 3

CS-05

**BACHELOR OF COMPUTER**

**APPLICATIONS (BCA)**

**Term-End Examination**

**June, 2020**

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

*Time : 3 Hours*

*Maximum Marks : 75*

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*Note : (i) Question No. 1 is compulsory.*

*(ii) Attempt any three questions from the rest.*

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1. (a) Consider a 'Library Management System'.  
Draw DFDs upto Level-II depicting various processes, data flow and data stores. 10
- (b) Define modularization. Explain with the help of an example. 4
- (c) Explain briefly all phases of system development life cycle. 6

- (d) What is Ergonomics ? Justify need of ergonomics in system design. 5
- (e) Explain unit and system testing with the help of an example for each. 5
2. (a) Explain the role of system analyst. 5
- (b) Explain the features of user documentation. 5
- (c) What is input data ? Explain the importance of input data design with the help of an example. 5
3. (a) List any *five* fact finding techniques for system study and explain any *two* of them in detail. Differentiate between these two with respect to their merits and demerits. 9
- (b) Explain the characteristics of MIS. Give the components of MIS. Also differentiate between DSS and expert system. 6
4. (a) What are structure charts ? explain with the help of an example. 4

- (b) What is the importance of quality in software development ? List and define various quality factors. 8
- (c) Define data dictionary. What is its purpose ? 3
5. (a) What is a Form ? Explain four factors to be considered in form design. 5
- (b) What is feasibility study ? Explain the different types of feasibility studies. 10