MCS-014

MCA (Revised)/BCA (Revised)
□ 8 1 4 3 **Term-End Examination**

June, 2015

MCS-014 : SYSTEMS ANALYSIS AND DESIGN

Time : 3 hours   *Maximum Marks : 100*

(Weightage 75%)

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

1. (a) What is the role of a system analyst in system development ? Explain any six attributes of a good system analyst.   8

    (b) What is modularity ? How can modularity in design be achieved ? Explain the advantages of modular design.   10

    (c) What is MIS ? What are the various functions of MIS in a business organization ?   6

    (d) What is the need of feasibility study of an information system ? Explain the different operational feasibility issues of a system.   8

(e) What is database design ? Explain the different issues involved in the designing of a database. 8

2. (a) What is cost and effort estimation ? Give a brief explanation of any cost and effort estimation model. 8

(b) What is decision table ? Design a decision table for Library Management System. Make appropriate assumptions. 8

(c) Explain the responsibility and authority of the system auditor. 4

3. (a) What is DFD ? Draw a DFD (0 and 1 level) for Online Admission System to offer online admission to graduate and post graduate students of a university. 10

(b) Explain the steps and activities in the testing and maintenance phases of SDLC. 10

4. (a) What is Decision Support System (DSS) ? What are its basic characteristics ? Briefly explain the various components of DSS, with the help of a diagram. 10

(b) Draw the object interaction diagram for a system of your choice. 5

(c) What is a report ? Briefly explain the criteria for report design. 5

5. Write short notes on the following : *4×5=20*

    (a)   Software Quality Assurance

    (b)   CASE Tools

    (c)   Real Time System

    (d)   Software Documentation