MCA (Revised)/BCA (Revised)

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.

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

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

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

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.

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

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.

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

(c) What is a report? Briefly explain the criteria for report design.
5. Write short notes on the following:  \(4 \times 5 = 20\)

(a) Software Quality Assurance

(b) CASE Tools

(c) Real Time System

(d) Software Documentation