

04064

MCA (Revised)/BCA (Revised)

Term-End Examination

December, 2014

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 an Information System ? Explain classification of systems in brief. Also explain the need of SDLC for proper development of a system. 10
- (b) What is SRS ? Briefly explain any four characteristics of SRS. Develop an SRS for Library Management System. Make appropriate assumptions. 10
- (c) What is coupling ? Explain advantages and disadvantages of a highly coupled system. 5
- (d) Explain basic guidelines for user interface design. 5

- (e) What is the need of documentation in System Development ? Explain, in brief, any two categories of documentation. 5
- (f) What is CASE tool ? Categorise various types of CASE tools. 5
2. (a) What are the various security issues in a computer system ? Explain how an organization may prevent security concerns from data stored in its centralized and distributed databases. 10
- (b) What are Forms ? Also explain the process of Form design. 10
3. (a) Why is a proper database design essential for a successful information system ? Explain rules for designing tables, fields and constraints. 10
- (b) What are the advantages of modular system design ? Draw a structure chart for Banking Management System. 10
4. (a) What is a decision tree ? Draw a decision tree for a system of your choice. 5
- (b) What is a flow chart ? Draw a flow chart to find the average marks of MCS-014 of the 10 students in a batch at a study centre. 5
- (c) What is the need of system maintenance ? Explain different types of maintenance. 10

5. Write short notes on the following :

4×5=20

- (a) **Expert System**
 - (b) **Prototyping Model**
 - (c) **Decision Table**
 - (d) **System Testing**
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