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.

(f) What is CASE tool? Categorise various types of CASE tools.

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.

(b) What are Forms? Also explain the process of Form design.

3. (a) Why is a proper database design essential for a successful information system? Explain rules for designing tables, fields and constraints.

(b) What are the advantages of modular system design? Draw a structure chart for Banking Management System.

4. (a) What is a decision tree? Draw a decision tree for a system of your choice.

(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.

(c) What is the need of system maintenance? Explain different types of maintenance.
5. Write short notes on the following: 

(a) Expert System

(b) Prototyping Model

(c) Decision Table

(d) System Testing