BCA/M-20　　　1891

STRUCTURED SYSTEM ANALYSIS AND DESIGN
BCA-125

Time : Three Hours]　　　　　　[Maximum Marks : 80

Note : Attempt *Five* questions in all, selecting exactly *one* question from each Unit. Q. No. **1** is compulsory.

(Compulsory Question)

1. (a) What do you mean by system ?

    (b) Name the various phases of system development.

    (c) What are the various steps in initial investigation ?

    (d) What is the difference between IPO and HIPO charts ?

    (e) Enlist the various methods of evaluating costs and benefits of a project.

    (f) What is a form ?

    (g) What is the difference between verification and validation ?

    (h) Name the various types of maintenance.　**8×2=16**

Unit I

2. (a) What type of skills that a system analyst must possess ? Explain in detail.   **8**

   (b) Explain the various elements of a system.   **8**

3. (a) Describe the various considerations in project planning in detail.   **8**

   (b) Differentiate between :

   (i) Open and Closed system

   (ii) Physical and Abstract System.   **8**

Unit II

4. Write short notes on the following :

   (a) Decision tree

   (b) Data Flow Diagram

   (c) Data dictionary

   (d) Gantt Chart.   **16**

5. (a) What do you mean by feasibility study ? Explain various types of feasibility study in detail.   **8**

   (b) What are the various strategies for determining information requirements ?   **8**

Unit III

6. (a) Discuss the role of databases in a system development. **8**

   (b) Discuss various types of file organization used in a design of a system. **8**

7. What is cost/benefit analysis ? Explain various types of costs/benefit analysis. How cost and benefits can be analyzed in a project ? Explain. **16**

Unit IV

8. (a) What do you mean by audit trails ? Explain. **8**

   (b) What is the role of training in implementation of a system ? **8**

9. What is the need of testing in the development of a system ? Explain various types of testing techniques using suitable examples. **16**