BCA/M21                                                        **1891**

# STRUCTURED SYSTEM ANALYSIS AND DESIGN
## Paper–BCA-125

**Time allowed : 3 Hours**                          **Maximum Marks : 80**

**Note :** Attempt **five** questions in all, selecting **one** question from each unit. Question No. **1** is compulsory. All questions carry equal marks.

### Compulsory Question

1. (i) What are the various characteristics of a System?          8×2 = 16

   (ii) What do you mean by System Planning?

   (iii) What is Feasibility Study?

   (iv) What are the sources of project requests?

   (v) What are the various types of costs in developing a system?

   (vi) What is the major difference between logical and physical view of a system?

   (vii) What is the major objective of testing?

   (viii) Comment on the need of documentation in developing a project.

### UNIT-I

2. Explain system development life cycle along with its various stages in detail.          16

3. (i) Explain various types of systems in detail.          8

   (ii) Discuss the role and qualities of a system analyst in brief.          8

### UNIT-II

4. Write short notes on following:

   (i) Decision Table (ii) Flow Chart (iii) Pseudo Chart (iv) HIPO Chart.          16

5. What do you mean by Initial Investigation? Explain the process and techniques for fact finding during initial investigation.          16

### UNIT-III

6. (i) Explain various classifications of cost and benefits in a system design.          8

   (ii) Discuss various objectives of input and output design in system development.          8

7.  (i)  Explain various types of file organizations in detail.  8

    (ii)  What are the objectives of database design? How database is different from traditional file system?  8

## UNIT-IV

8.  (i)  Discuss various methods for converting an existing system with a newer one.  8

    (ii)  Describe the quality assurance goals in a system design.  8

9.  Explain various types of testing techniques used to test a system along with pros and cons of each technique.  16