

Roll No. ....

Subject Code—6751-Y

**M.C.A. (Three Years) EXAMINATION**

(First Semester)

(PGDCA/MCA)

(Re-appear Batch Prior to 2009)

(Common with PGDCA-II)

MS-04

**SYSTEM ANALYSIS AND DESIGN**

*Time : 3 Hours*

*Maximum Marks : 100*

**Note :** Attempt any *Five* questions. All questions carry equal marks.

1. (a) Define System. What are the elements of a system ? Discuss the primary characteristics of system. Also explain different types of systems in detail.
- (b) What is System Analysis ? Explain by using an example of your choice.

2. (a) What is the system development life cycle ? Distinguish between preliminary investigation and feasibility study.
- (b) Explain all the major sources of project requests.
3. (a) What considerations are involved in feasibility analysis ? Which one is the most crucial and why ? Explain the steps involved in feasibility analysis.
- (b) Explain Fact-Finding techniques in detail.
4. (a) What do you mean by Cost/Benefit Analysis ? How do net present value and present value analysis differ ? Illustrate.
- (b) What are Data Flow Diagrams ? What are the different types of DFDs used in system development process ? Explain the rules for drawing good DFDs.

5. (a) What do you mean by system design ? Distinguish between logical and physical design. What design methodologies are used in system design ? Explain.
- (b) What is an Interface ? What are the basic objectives of interface design ?
6. (a) Why do we test systems ? How important is testing ? What design specifications are considered in preparing a test plan ? Explain.
- (b) List and explain the factors that affect the quality of a system. What levels of quality assurance must a system meet ? Explain.
7. (a) What is Implementation ? How does it differ from conversion ? Explain the major activities in conversion. Which one is the most important ? Why ?
- (b) Briefly explain the procedure of post-implementation review. Also summarize the key training aids for training users on a new system with example.

8. Write short notes on the following :

- (a) System Reliability and System Maintenance
- (b) Roles of System Analyst
- (c) Requirements of Forms Design
- (d) Decision Trees.