

Roll No. ....

Subject Code—8047-X

**M.C.A./P.G.D.C.A. EXAMINATION**

(Re-appear Batch 2009 Onwards)

(First Semester)

(MCA 3 Years)

MS-04

**SYSTEM ANALYSIS & DESIGN**

*Time : 3 Hours*

*Maximum Marks : 70*

**Section A**

Note : Attempt any *Seven* questions.  $7 \times 5 = 35$

1. Explain the importance of feedback in system.
2. Explain the importance of verification and validation in testing.
3. Explain briefly system design objectives.

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**P.T.O.**

4. What is a System ? Discuss various categories of a system.
5. Define the terms GANTT Chart, PERT Chart, DFD, Structure Chart with example.
6. Differentiate between top-down and bottom-up techniques.
7. Explain the concept of Cost/Benefit analysis.
8. What is a benchmark ? Give examples of benchmarks.
9. What do you mean by feasibility analysis ? Explain economic, technical and behavioral considerations in feasibility analysis.
10. Explain the role of Entity-Relation diagram with example.

### Section B

Note : Attempt all the questions.

11. What do you mean by Project Selection ? Outline the procedure adopted in Project Selection.

*Or*

Describe various design strategies. Explain briefly. Which design strategies are most popular now-a-days ? Why ? 11

12. What do you mean by preliminary investigation ? Explain its usefulness in a system development ? Explain briefly.

*Or*

What are the basic design principles ? Explain briefly. Is it possible to satisfy all design principles ? Justify your answer. 12

13. (a) What do you understand by Software Quality Assurance ?  
(b) Differentiate between Architectural Design and Detailed Design.

*Or*

What do you mean by requirement document of software project ? How can you identify the imprecise ? 12