

PGDCA / MCA (I Year)

Term-End Examination

December, 2010

**CS-05 : ELEMENTS OF SYSTEM ANALYSIS
AND DESIGN**

Time : 3 hours

Maximum Marks : 75

Note : Question number 1 is compulsory. Attempt any three questions from the rest.

1. (a) What is Feasibility Study ? Explain in detail any five types of feasibility. 7
- (b) What is System Analysis ? Explain any five techniques of System Analysis. 7
- (c) Explain any two methods for training of operators and users. 4
- (d) What do you understand by file organisation ? Explain sequential, Random and Indexed File Organisations. 7
- (e) Explain the structure of a decision table with the help of an example. What are the various types of decision tables ? 5

2. (a) What is a System ? Explain the various types of systems. 5
- (b) What do you understand by Disaster Recovery Planning ? 5
- (c) What are databases ? What are their advantages ? Briefly explain the three types of databases. 5
3. Write short notes on the following (any five) : 15
- (a) Civil Liability
- (b) CD-ROM
- (c) Green PC
- (d) Strategic Information
- (e) Knowledge Based Systems
- (f) System Maintenance.
4. (a) Explain the four methods for converting from an old system to a new one. 4
- (b) What is Documentation ? Explain the five major types of documentation that must support a system. 6
- (c) Explain the term Software Crisis both from the user's and the programmer's point of view. 5

5. (a) Who is a System Analyst ? Explain five responsibilities of a system analyst. 6
- (b) What is a Data Dictionary and why is it needed ? Explain the rules governing the construction of a data dictionary. Also describe the types of a data dictionary. 6
- (c) Explain any three factors that must be taken into account while designing a Human - machine interface design. 3
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