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PGDCA / MCA (I Year)

Term-End Examination

June, 2012

**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 SDLC ? Explain briefly all the phases of SDLC. 8
- (b) What is Quality Assurance ? Explain the different levels of Quality Assurance. 5
- (c) What is Prototyping ? Explain underlying principles of Prototyping. Explain briefly steps involved in prototyping process. 7
- (d) What is Ergonomics ? Justify need of ergonomics in system. Design. 5
- (e) Explain why aspect of HCI is very important in System Design. Explain various factors, which need to be considered for providing good and efficient HCI. 5

2. (a) What is Systems Analysis ? Explain various elements of Systems Analysis. 10
- (b) What is input data ? Explain importance of input data design with the help of an example. 5
3. (a) What is MIS ? Explain functions of a typical MIS. 5
- (b) What is SRS ? Is it necessary to have a SRS for System Development ? Justify your answer. Also write SRS for Hospital Management System. 10
4. (a) What are different methods of fact finding ? Discuss Interviewing as a method for fact finding with an example. 10
- (b) What is a Form ? Explain four factors to be considered in form design. 5
5. (a) What is decision table ? Describe its structure. Explain application of decision table with an example. 5
- (b) Write short note on the following : 10
- (i) Transaction Processing System
 - (ii) GUI design
 - (iii) VTOC
 - (iv) Software Piracy
 - (v) Software Maintenance
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