PGDCA / MCA (I Yr)

Term-End Examination

June, 2008

## CS-05 : ELEMENTS OF SYSTEM ANALYSIS & DESIGN

Time : 3 hours                                    Maximum Marks : 75

**Note :**

  (i)   Question no. 1 is **compulsory**.

  (ii)  Answer any **three** questions from the rest.

1.  (a)   Differentiate between decision trees, decision tables and structured flowchart with examples and suitable diagrams.                                      10

    (b)   Construct a DFD (context level, 1-level and 2-level) for hospital management system. Explain the working of the diagram also.                        10

    (c)   What are the various techniques to carry out fact finding ? Explain with examples.                5

    (d)   Explain any two techniques of feasibility analysis.        5

2.  (a)   Explain the term 'Ergonomics'. How is it related to a system design ?                               5

    (b)   Give in detail various components of multimedia.      5

    (c)   Explain the relevance of MIS in any organisation with respect to System Analysis and Design.        5

3. (a) Give advantages of DBMS over file management system. Also differentiate between a hierarchical data model and relational model. 8

   (b) Explain in detail the basic techniques of System Analysis. 7

4. (a) Explain the following terms with examples : 6

      (i) Quality Assurance (QA)

      (ii) Prototype design

   (b) Explain the following terms with one example of each : 6

      (i) Peak load test

      (ii) Performance time testing

      (iii) Recovery testing

   (c) Give one example of HIPO Chart. 3

5. (a) Give categories of documentation with examples. 5

   (b) Explain various types of file organisation techniques in brief. 5

   (c) Write in brief the main considerations for the input and output designs. 5