

**PGDCA / MCA (I Yr)**  
**Term-End Examination**  
**June, 2007**

**CS-05 (S) : ELEMENTS OF SYSTEMS  
ANALYSIS & DESIGN**

Time : 3 hours

Maximum Marks : 75

**Note :** Question no. 1 is **compulsory**. Answer any **three** questions from the rest.

1. (a) Illustrate the characteristics of the following with primary focus on an Insurance Company : 10
- (i) Transaction processing systems
  - (ii) MIS
  - (iii) Decision support systems
- (b) Enumerate the factors that are important to the quality of a software system. Illustrate their significance in a qualitative manner with some examples. 10
- (c) Discuss the features and relative merits of system flowcharts, decision tables and decision trees. Give an example for each. 10

2. (a) Describe the importance and characteristics of a good documentation in systems development process. 8
- (b) What are the ways in which an "Advertisement Agency" could benefit by installing a multi-media system in its Reception ? Suggest the hardware and the software requirements for that system. 7
3. (a) Draw a data flow diagram (DFD) depicting various processes, data flow and data repositories for a retail outlet of a chemist-shop. Follow the appropriate conventions/symbols as given in your study material. 7
- (b) Explain what kind of fact finding techniques would you use for deciding on the design of a new application/system for some Internet Service Provider (ISP). 8
4. (a) "Conversion is the process of changing from the old system to the newly developed one." Explain any three methods of conversion. 7
- (b) List and explain the basic factors to be considered in the selection of file media and file organisation method. 8

5. (a) Explain the three primary classifications of the forms mentioning their characteristics along with an example for each. 7
- (b) Explain the following with an example for each : 8
- (i) Nassi-Shneidermann chart
  - (ii) PERT chart

