| | CS-05 |

PGDCA / MCA (I Year)

Term-End Examination

June, 2010

CS-05 : ELEMENTS OF SYSTEM ANALYSIS AND DESIGN

Time : 3 hours   *Maximum Marks : 75*

Note :   *Question **No.1** is **compulsory**. Attempt **any three** questions from the rest.*

1.   (a)   What is System Design and what are the various steps of the design process ? Why is system design called an iterative process ?   8

      (b)   What is a DFD ? Design a DFD upto two levels for an Airline Reservation System. Make necessary assumptions wherever required.   9

      (c)   Explain Benchmark Testing and its utility.   3

      (d)   What are the various categories of information required to cater to the different levels of management in an organisation.   6

      (e)   What are Computer Crimes ? Explain the three categories of computer crimes.   4

2. (a) What is Software Piracy ? Why is Piracy so prevalent in the society ? Explain any five forms of Software Piracy. 7

   (b) Explain any four techniques of System Analysis. 8

3. (a) What is a System ? Explain any five characteristics of a system. 6

   (b) What is Ergonomics ? How can we apply Ergonomics in System Design ? 5

   (c) Explain HIPO Diagram as a tool for Software Design and documentation. 4

4. (a) What is System Testing ? Explain the five steps in which System Testing is accomplished. 6

   (b) What are System Projects ? Explain any five reasons for initiating system projects. 6

   (c) Describe Decision Trees with the help of an example. 3

5. (a) Explain Cost/Benefit Analysis. What are the various categories of costs and benefits ? 8

   (b) What are the elements of Input Data ? Explain at least five input design guidelines. 7