Bachelor in Information Technology (BIT)

Term-End Examination

December, 2006

CSI-04 : COMPUTING SOLUTIONS

Time : 3 Hours   *Maximum Marks : 75*

Note :   *There are two sections in this paper. Section A is **compulsory**. Answer any **three** questions from Section B.*

SECTION A

1.   State true/false for the following statements :   5

   (i)   Turnaround time is the required time for the system to respond to a query.
   (ii)   COBOL is a procedural language.
   (iii) Excelerator is an example of expert system.
   (iv)   Throughput is the amount of work that can be done by people in a given period of time.
   (v)   Seeret password method is used to prevent leakage of information.

2.   Explain two main features of the following. Also, write two applications of each of the following :   16

   (i)   Data Warehousing

   (ii)   Client/Server Databases

   (iii) Decision Support System

   (iv)   Artificial Intelligence

3.   Explain any nine important criteria for measuring a system. Also, give an example of each.   9

SECTION B

*Answer any **three** questions from this section.*

4.   (a)   What is the importance of "processing control design" in software development ? Explain different types of processing controls in software design.   9

    (b)   Explain how relational database model is better when compared to other database models. Give at least three important features of relational database model to support your answer.   *6*

5.   (a)   At present, is it possible to create an artificially intelligent human/aninmal ? If yes, give three reasons to support your answer. If no, give three problems faced in developing the above.   *7*

    (b)   Why is Neumann – Hadass used ? What are the different levels of Neumann – Hadass model ? Explain them with their importance in developing an information system.   *8*

6.   (a)   Explain the importance of different activities in 'Analysis' and 'Design' phase of system development life cycle.   *10*

    (b)   What are expert systems ? Explain the working of an expert system with the help of an example.   *5*

7.   (a)   Why is evaluation required during the development of software and at the end of the implementation ? Explain different criteria of system evaluation. Also, give three main advantages of the evaluation report and evaluation process.   *9*

    (b)   Explain the important services of database system. How are these services classified into DBMS and database application ? Give the names of any two different types of languages used for writing the database applications.   *6*