

THE OPEN UNIVERSITY OF SRI LANKA  
 B.SC. DEGREE PROGRAMME- 2010/2011  
 DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE  
 CSU1179 – INTRODUCTION TO INFORMATION SYSTEMS  
**OPEN BOOK TEST (OBT)**  
**DURATION: 1 ½ HOURS**



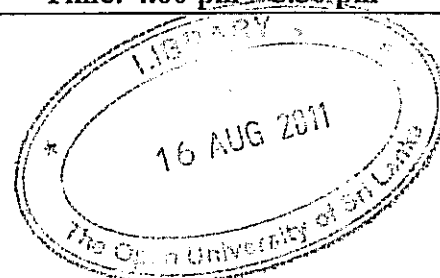
**Date: 18. 03. 2011**

**Time: 4.00 pm – 5.30 pm**

**Answer ALL Questions**

**01.**

- i. Explain the following statements.
  - a. All man-made systems cannot be automated.
  - b. All automated systems are not computerized.
  - c. Real world systems can be computerized.
- ii. Describe the difference between *Natural systems* and *Man-made systems*.
- iii. Determine whether the following statement is TRUE or FALSE and justify your answer.  
*"A Digestive system is a natural system."*
- iv. By using the following table, describe what is *Data*, *Information* and *knowledge*.



Book	Author	No. of copies	Price per book
Gone With the Wind	Margaret Mitchell	5	1500/=
Old Man and the Sea	Ernest Hemingway	10	350/=
Cry, the beloved country	Alan Paton	15	570/=
The Thirty-Nine Steps	John Buchan	4	400/=

**02.**

- i. Discuss the differences between *batch processing systems* and *online systems* by using examples.
- ii. Compare the similarities and differences of an *Expert system* and *knowledge base system*.  
 Give two (02) examples for each.
- iii. Classify the following two information systems as *expert system* or *database system*, giving reasons for each choice.
  - a. Computer fault diagnose system
  - b. Library catalogue system

**03.**

- i. Discuss the concept of database over information processing in files.
- ii. "Network databases are much more comprehensive than hierarchical databases." Justify your answer.
- iii. Briefly explain three essential characteristics in a database.