

THE OPEN UNIVERSITY OF SRI LANKA
 B. SC. DEGREE PROGRAMME – LEVEL 03
 FINAL EXAMINATION - 2009/2010
 CSU 1179: INTRODUCTION TO INFORMATION SYSTEMS



DURATION: TWO HOURS

Date: 06th June, 2010

Time: 1.30 p.m. – 3.30 p.m.

Answer FOUR Questions ONLY.

Q1.

- i. Determine whether the following statements are TRUE or FALSE. In each case justify your answer.
 - a. Solar system is a natural system.
 - b. Washing machine is a man-made system.
- ii. Can all man-made systems be computerized? Justify your answer.
- iii. What are the differences between *Information* and *Knowledge*?
- iv. It is proposed to automate the function of the controlling fans for OUSL lecture halls. Explain how far you can achieve this automation.

Q2.

- i. Compare and contrast "*Online Systems*" and "*Real Time Systems*".
- ii. What are the four types of Real Time Systems? Briefly describe them.
- iii. Describe the differences among *Database Systems*, *Expert Systems* and *Knowledge-base Systems*.
- iv. Describe the types of information systems that can be developed to support the three management levels of an organization.

Q3.

- i. Explain why database systems can be considered as an improvement to file processing systems.
- ii. What are the three common problems in classical file systems? Explain them.
- iii. Describe the differences among *Hierarchical*, *Network*, *Relational*, *Object-oriented* and *Multi-media* databases.
- iv. Describe the following terms using suitable examples.
 - a. File
 - b. Record
 - c. Field
 - d. Primary key
 - e. Query

Q4.

- i. Explain the terms *Knowledge* and *Intelligence* in your own words.
- ii. Write five advantages and five characteristics of Expert systems.
- iii. Explain the anatomy of an Expert system and state the functions of each part.
- iv. Write short notes for the following terms.
 - a. Hybrid systems
 - b. MYCIN
 - c. GT (Generic Tasks)

Q5.

- i. Briefly describe the evolution of the Internet technology.
- ii. Write the tasks which are performed by a Client and a Server.
- iii. Describe the advantages and disadvantages of *File Transfer Protocol (ftp)*.
- iv. Briefly describe the following terms.
 - a. IP address
 - b. Remote login
 - c. Archie
 - d. MAN
 - e. List Servers

Q6.

- i. What is Agent technology?
- ii. "*HTML can be used to create only static websites*". Express your views on this statement.
- iii. Describe the advantages and disadvantages of *WWW technology*.
- iv. Compare and contrast the following terms.
 - a. Yahoo and WAIS
 - b. Website and Web application
 - c. FTP and telnet
 - d. Dial-up connection and Direct connection
 - e. HTTP and TCP/IP

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