THE OPEN UNIVERSITY OF SRI LANKA
B.Sc. DEGREE PROGRAMME: LEVEL 03
DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE
FINAL EXAMINATION -2013/2014



CSU1179:INTRODUCTION TO INFORMATION SYSTEMS

DURATION:TWO HOURS (2 HOURS)

Date: 25th November 2014

Time: 9.30am-11.30am

Answer Four Questions only

- 01. (i) Explain why database systems can be considered as an improvement to file processing systems.
 - (ii) What are the three common problems in a classical file systems? Explain them.
 - (iii) Describe the difference between hierarchical and relation databases.
 - (iv) Describe the advantages and the disadvantages of *relational databases* over object oriented databases.
- 02. (i) Compare the difference between Real Time Systems and Online Systems.
 - (ii) What are the four types of Real Time Systems? Briefly describe each of them.
 - (iii) Which software can be used for supporting management levels of an organization?
 - (iv) Classify the following systems as Batch Processing Systems, Real Time Systems or Online Systems, giving reasons for each choice.
 - (a) Airline controlling system.
 - (b) Chatting system.
 - (c) Pre-paid card system.
- 03. (i) What do you mean by a system? Justify your answer.
 - (ii) Describe the difference between manmade systems and automated systems.
 - (iii) All manmade systems are not automated systems. Justify your answer.
 - (iv) What is the relationship between Data and Information? Explain data, information and knowledge by using examples.
 - 04.(i) Describe the advantages and the disadvantages of WWW technology.
 - (ii) What is application server based computing? Explain how it can be useful for the developing countries.
 - (iii) Briefly describe the following terms

- (a) Web Client
- (b) Telemedicine
- (c) Web Application
- (d) Search Engines
- 05 (i) Distinguish between a Database and an Expert System.
 - (ii) Describe two methods that can be used to develop an expert system. Which method is the easiest to develop an expert system? Justify your answer.
 - (iii) "To create a good expert system, the inference engine should be stronger" Do You agree with the above statement? Justify your answer.
 - (iv)What are the advantages of Hybrid systems? Justify your answer with a suitable example for each advantage you stated.
- 06. (i) What is a computer network? Explain how it can be useful for a developing country?
 - (ii) Describe the advantages and the disadvantages of File Transfer Protocol (FTP).
 - (iii) Compare and contrast the following terms.
 - (a) FTP and Telnet.
 - (b) Website and Web application.
 - (c) Dialup connection and Direct connection.
 - (d) HTTP and TCP/IP

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