



THE OPEN UNIVERSITY OF SRI LANKA
 B.Sc. DEGREE PROGRAMME : LEVEL 03
 DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE
 FINAL EXAMINATION -2015/2016
CSU1179:INTRODUCTION TO INFORMATION SYSTEMS
 DURATION:TWO HOURS (2 HOURS)

Date : 07th January 2017

Time: 1.30pm-3.30pm

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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