



EASTERN UNIVERSITY, SRILANKA.
FACULTY OF AGRICULTURE
First Year Second Semester – 2008/2009
IT 101 INTRODUCTION TO INFORMATION TECHNOLOGY (Theory)

Answer all Questions

Time allowed: Two hours

1.

1. What is computer and draw a block diagram indicating the data flow between CPU, main memory and I/O units
2. Briefly explain the technologies used in each generation of computers
3. Briefly describe any four characteristics of a computer
4. Briefly explain System software and Application Software
5. Briefly explain an operating system and discuss its various functions
6. Explain why data should be backed up?
7. What is computer virus?
8. What is the concept of Firmware?
9. Explain the difference between RAM and ROM

2.

1. Distinguish the pairs in each of the following
 - a. Control Unit and Arithmetic Logic Unit
 - b. Internet and World Wide Web(WWW)
 - c. Hardware and Software
2. Compare impact and non impact printers with suitable examples
3. Name three out put devices other than printers and explain their usage
4. Discuss the advantages of word processing package over the manual typewriters
5. Write short notes on the following;
 - a. Data Bus
 - b. GUI
 - c. Mail Merge in Microsoft word 2003
 - d. PROM

3.

1. Define the following terms:
 - a. *Bit*
 - b) *Byte*
 - c) *Word*
2. Convert the following from one number system to another system along with the working notes:
 - a. Convert Decimal (65.65) into Binary
 - b. Convert Octal (12AE) into Decimal
 - c. Convert Hexadecimal (39.B6) into Octal
 - d. Convert Octal (245) into Hexadecimal
 - e. Convert Binary (1011.1101) into Decimal
3. Draw the logic gates for :
 - a. $(A + B)C$
 - b. $A+BC+\bar{D}$
 - c. $(\bar{A+B})(C+D)\bar{C}$
4. Draw the truth tables for :
 - a. $A(B+C)$
 - b. $(\bar{A+B})(A+C)$
 - c. $\bar{A}B(A+C)$
5. Describe how IT (Information Technology) can be utilized in agriculture sector

4.

1. What is computer network?
2. What are the various advantages and disadvantages of Computer Network?
3. Write short notes on the following:
 - a. TCP/IP
 - b. Intranet
 - c. URL
 - d. Flash Memory
 - e. Modem
4. List and describe three basic types of computer networks
5. What is the topology?
6. Briefly describe the three types of network topologies
7. Describe a Workstation
8. Explain the advantages of using e-mail
9. Describe the factors which have contributed to the growth of Local Area Network