EASTERN UNIVERSITY, SRILANKA

First Year Second Semester Examination in Agriculture – 2006/2007

IT 101 INTRODUCTION TO INFORMATION TECHNOLOGY (Theory)

(External Degree)

Answer all Questions.

Time allowed: Two hours

01.

1. Draw a data flow diagram between CPU, main memory and I/O units.

2. What are the two typical components of a CPU and briefly explain each of them.

3. What are the functions of an operating system?

4. List three names of operating system.

5. Explain the usages of application packages.

6. Discuss the features of RAM, PROM and EPROM.

7. What is computer virus?

8. How viruses spread? Name the ways to protect a computer from virus.

02.

1. Name the output devices other than printers and explain their applications.

2. Discuss the advantages of word processing package over the manual typewriters.

3. Discuss five application areas of computer.

4. Compare impact and non impact printers with suitable examples.

5. Write short notes on the following topics.

    a. Storage Devices.

    b. Input and Output Devices.

    c. Communication Devices.

    d. Internet & Email.

03.

1. Define the terms hardware and firmware.
2. Define the term database, and list three examples for database.
3. What is DBMS and list three DBMS softwares known to you.
4. Briefly describe three types of computer languages.
5. Define the term "**Structured Query Language (SQL)**".
6. Describe how IT (Information Technology) can be utilized in agriculture based products and services.

04.

1. What is computer network?
2. List and describe three basic types of computer networks.
3. List three advantages and disadvantages of Computer Network.
4. List three types of network cables.
5. Define the term "**protocol**" and list four examples.
6. How can you use search engine for searching? What are the various search engines used in the internet?
7. What is topology in network technology?
8. Briefly describe the three types of network topologies.
9. Briefly describe the following terms.
   a. File servers.
   b. Network Interface Cards (NIC).
   c. Concentrators/Hubs
   d. Repeaters.