



11 OCT 2014  
UNIV

EASTERN UNIVERSITY, SRI LANKA

FIRST YEAR SECOND SEMESTER EXAMINATION IN AGRICULTURE – 2011/2012

JUL./AUG.- 2014 (PROPER/REPEAT)

**IT 1201 –INFORMATION AND COMMUNICATION TECHNOLOGY**

(THEORY)

Answer **all** questions

Time: 1 Hour

Q1.

- Discuss the importance of information technology in the agriculture sector.
- Explain Analog, Digital & Hybrid computer.
- What do you understand by Embedded Systems? List four examples where embedded systems are used in.
- Briefly explain the differences between System Software and Application Software.
- What do you understand by Data, Data processing and Information?
- What is it meant by ASCII? Explain the use of ASCII in computers.
- What is it meant by UNICODE? List the advantages and disadvantages of UNICODE over ASCII.
- Explain why data should be backed up frequently from a computer system.
- List five things to consider when buying a new computer.

Q2.

- What is a Computer Network?
- Briefly explain the Personal Area Network (PAN). List two advantages and two disadvantages of PAN.
- Describe the difference between Internet and World Wide Web.
- List five advantages and disadvantages of internet.
- Discuss the advantages and disadvantages of e-mail over the traditional postal system.
- What is a computer virus?
- Describe briefly how the viruses come into a computer and how to prevent them?
- Convert the following into Binary numbers (Base 2):
  - $D4B.18_{16}$
  - $0.985_{10}$
  - $16.16_8$
- Convert the following into Hexadecimal numbers (Base 16):
  - $64.985_{10}$
  - $11712_8$
  - $1010110.01011_2$