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**EASTERN UNIVERSITY, SRI LANKA**  
**FIRST EXAMINATION IN AGRICULTURE – 2004/2005**  
**SECOND SEMESTER – OCT. - 2006**

**IT 101 – INTRODUCTION TO INFORMATION TECHNOLOGY (THEORY)**

**Answer all questions**

**Time Allowed: 02 Hours**

**Q1)**

- a) Discuss about the term “Computer Generation”? (20)
- b) What is the difference between “Mainframes” and “Embedded Computers”? (20)
- c) Briefly discuss the term “Computer Language”. (20)
- d) Distinguish the term “Application Software” and “System Software”. (20)
- e) Discuss about “Output Devices”. (20)

**Q2)**

- a) Convert the following numbers:
  - i)  $1234_{10}$  to **Octal**, (05)
  - ii)  $111100111_2$  to **Decimal**, (05)
  - iii)  $ABC123_{16}$  to **Binary**, (05)
  - iv)  $12743_8$  to **Hexadecimal**, (05)
  - v)  $14296_{10}$  to **Binary**. (05)
  
- b) Discuss the following terms:
  - i) Primary Storage Device, (1)
  - ii) Secondary Storage Device, (1)
  - iii) RAM, (1)
  - iv) Bus Topology, (1)
  - v) CPU (Central Processing Unit). (1)

Q3)

- a) Explain the term "Computer and Communication System". (20)
- b) What do you mean by "Data Representation"? (20)
- c) Discuss about "Operating System". (20)
- d) Briefly describe the term "Computer Networks". (20)
- e) Discuss about "Computer Security" (20)

Q4)

- a) Write a C++ programme to get the output as given below.

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**BEST OF LUCK**

(30)

- b) Write C++ programmes for the following outputs.

i)

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(35)

ii)

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(35)