10)

EASTERN UNIVERSITY, SRI LANKA FIRST EXAMINATION IN SCIENCE 2002/2003 (Repeat)

FIRST SEMESTER (June/July' 2003)

CC101 Fundamentals of Computer Systems

Answer all questions

Time allowed: 1 hour

- 1.
 - (i) Describe the two major components of a computer system
 - (ii) Computer hardware is made up of five parts. List and describe them.
 - (iii) Describe the two major categories of software.
 - (iv) List the levels of Computer languages. What are the primary differences between symbolic and high-level languages?
- 2.
- (a) Convert the following numbers into its equivalent binary numbers.
 - i. 22421₁₀
 - ii. 47145₈
 - iii. 6B3F₁₁
 - iv. ADC16
- (b) Convert the following binary numbers into its equivalent octal numbers.
 - i. 11001010
 - ii. 111111111
 - iii. 10000101
 - iv. 11110010
- (c) What is Cache memory and what is the purpose of it? Illustrate with a diagram.
- (d) Describe the applications of Internet.
- (e) Discuss LAN topologies