# EASTERN UNIVERSITY, SRI LANKA
## FIRST EXAMINATION IN SCIENCE-2001/2002
## FIRST SEMESTER (APRIL 2002)

# CC101-FUNDAMENTALS OF COMPUTER SYSTEMS
## (REPEAT)

Answer all Questions                                    Time: 1 Hour

## Question 01

(a)   Write the short notes on the following topics:
      (i)     Computer Generation.
      (ii)    Data and Information.
      (iii)   CPU
      (iv)    Primary storage.
      (v)     Assembly language.

(b)
      (i)     Compare the command based (DOS) operating system with the
              graphics based (Windows) operating system.
      (ii)    What does the *Computer Networks* mean?
      (iii)   Briefly describe LAN & WAN Networks.

## Question 02

(a)   Calculate:
      (i)     Binary equivalent of $187_{10}$
      (ii)    Binary equivalent of $AOF_{16}$
      (iii)   Hexa equivalent of $217_{10}$
      (iv)    Octal equivalent of $10101_{2}$
      (v)     Hexa equivalent of $110101_{2}$
      (vi)    Decimal equivalent of $11110101_{2}$

(b)   Perform the following arithmetic using two's complementation, (using 8 bits
      pattern)
              (i)     15+11
              (ii)  - 144-27

(c)   State the full name of the following abbreviations and briefly explain each.
      (i)     ENIAC
      (ii)    IBM
      (iii)   HTTP
      (iv)    ISDN
      (v)     OOP
      (vi)    WWW
      (vii)   HTML
      (viii)  ROM
      (ix)    ALU
      (x)     CAD