

19

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

CC101-FUNDAMENTALS OF COMPUTER SYSTEMS

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) What does the *Computer Networks* mean?
Briefly describe LAN & WAN Networks.
 - (ii) What is *protocol* in Computer Networks?
 - (iii) With the help of diagrams, explain Network topologies.
 - (iv) What is *Internet* and briefly describe Internet applications.

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_{10}
 - (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) With the help of diagrams, explain the following concepts in a magnetic disk:
1.Tracks 2.Sectors 3.Clusters 4.Cylinders