



EASTERN UNIVERSITY, SRI LANKA
DEPARTMENT OF MATHEMATICS
FIRST YEAR FIRST EXAMINATION IN SCIENCE -2013/2014
CC 101 – FUNDAMENTAL OF COMPUTER SYSTEM
PROPER

10 MAR 2016
EASTERN UNIVERSITY, SRI LANKA

Answer all Questions

Time: 1 Hour

Q1.

- i. Define the following terms:
 - a) Data;
 - b) Information.
- ii. Explain in briefly, any four characteristics of computer.
- iii. Briefly describe the “Computer generations”.
- iv. Define the following terms:
 - a) Secondary Memory;
 - b) Hard Disk;
 - c) Read Only Memory.
- v. Describe each of the following with examples:
 - a) Application software;
 - b) System software.
- vi. Discuss about “Hardware” in computing environment.
- vii. Explain Analog, Digital and Hybrid computer.
- viii. What is an operating system? Give 3 examples of Operating Systems.

Q2.

- i. What is a network?
- ii. Define the term *Local Area Network*.
- iii. Explain in briefly, any three LAN Topologies.
- iv. Convert the following decimal numbers into their binary equivalents:
a) $(283)_{10}$; b) $(5280)_{10}$; c) $(0.8125)_{10}$; d) $(38.625)_{10}$.
- v. Convert the following decimal numbers into their octal equivalents:
a) $(1598)_{10}$; b) $(0.175)_{10}$; c) $(22.21875)_{10}$; d) $(79.4375)_{10}$.
- vi. Convert the following octal numbers into their binary equivalents:
a) $(417.25)_8$; b) $(35.216)_8$.
- vii. Convert the following binary numbers into their octal equivalents:
a) $(1101.100111)_2$; b) $(11110011.0001)_2$; c) $(10110101.11001)_2$.
- viii. Convert the following hexadecimal numbers into their binary equivalents:
a) $(F3A.CB)_{16}$; b) $(5D.8F)_{16}$.

A.P. Suman