

EASTERN UNIVERSITY, SRI LANKA
FIRST EXAMINATION IN SCIENCE –2011/2012

FIRST SEMESTER (Jan./Feb., 2014)

CC 101 – FUNDAMENTALS OF COMPUTER SYSTEMS

(THEORY)

(PROPER & REPEAT)

Answer all questions

Time allowed: 01 Hour

Q1)

- i. List five benefits of ICT.
- ii. Define the following terms:
 - a. Data;
 - b. Information;
 - c. Processing.
- iii. Discuss the various computer generations along with the key characteristics of computers of each generation.
- iv. What do you understand by Embedded Systems? List four examples where embedded systems are used in.
- v. Briefly describe any four characteristics of a computer.
- vi. What is meant by Computer Software? Give at least three different types of software and list three examples for each of them.
- vii. What is meant by Computer Hardware? Give at least three different types of hardware and list three examples for each of them.
- viii. Write short notes on the following:
 - a. BLOGS;
 - b. Cloud Computing.

Q2)

- i. Convert the following Decimal numbers into Binary numbers (up to 6 decimal places):
 - a. 1059_{10} ;
 - b. 0.568_{10} .
- ii. Convert the following Binary numbers into Hexadecimal numbers:
 - a. 100011110111_2 ;
 - b. 111011.111011_2 .
- iii. Convert the following Hexadecimal numbers into Octal numbers:
 - a. 11110111_{16} ;
 - b. $F1C7.10A1_{16}$.
- iv. What is the main difference between Main Memory and Secondary Memory? List three examples for each of them.
- v. Define the term Computer Network.
- vi. Briefly explain the Personal Area Network (PAN). List two advantages and two disadvantages of PAN.
- vii. Describe the difference between Internet and World Wide Web.
- viii. Discuss the advantages and disadvantages of e-mail over the traditional postal system.
- ix. Define the term Computer Virus and briefly explain how to protect a computer from virus?