



EASTERN UNIVERSITY, SRILANKA

DEPARTMENT OF MATHEMATICS

FIRST EXAMINATION IN SCIENCE -2014/2015

FIRST SEMESTER (Aug. / Sept, 2016)

CC 101 – FUNDAMENTALS OF COMPUTER SYSTEM

(PROPER & REPEAT)

Answer all questions

Time allowed: 01 hour

Q1

- (i) Name the main components of a Central Processing Unit (CPU) and briefly describe their functions.
- (ii)
 - a. What are the various devices used to store data in a computer?
 - b. Give a classification of storage devices.
- (iii)
 - a. State what is meant by Operating System?
 - b. Give 5 example of Operating Systems.
 - c. List the functions of an operating system.
- (iv) Define the following terms:
 - a. *Compiler;*
 - b. *Interpreter.*
- (v) Explain three types of computer programming language.

Q2.

- (i) Explain how computer understand the data.

- (ii) Define the following ports:
 - a. *USB*;
 - b. *HDMI*;
 - c. *Serial Port*.

- (iii) Convert the following into Binary:
 - a. $(AD9B4)_{16}$;
 - b. $(512.52)_{10}$;
 - c. $(7260)_8$.

- (iv) Convert the following into Octal:
 - a. $(10101010110010.111)_2$;
 - b. $(568.356)_{10}$;
 - c. $(B2A)_{16}$.

- (v) Convert the following into Hex:
 - a. $(1101010111110000)_2$;
 - b. $(127)_8$;
 - c. $(852)_{10}$.