



EASTERN UNIVERSITY, SRI LANKA
DEPARTMENT OF MATHEMATICS

EXTERNAL DEGREE EXAMINATION IN SCIENCE –2008/2009

FIRST YEAR FIRST SEMESTER (July, /Aug, 2010)

EXTCC 101 – FUNDAMENTALS OF COMPUTER SYSTEMS

(PROPER & REPEAT)

Answer all questions

Time allowed: 01 hour

01,

- i. What is computer & Draw the block diagram of a computer.
- ii. Briefly describe the computer generation
- iii. Briefly describe **any five** characteristics of a computer.
- iv. Draw the “Categories of computers” chart & describe **any four** categories of computers.
- v. What are the various devices used to store data in a computer? Give a classification of storage devices.
- vi. Explain the following terms:
 - a. RAM
 - b. Motherboard;
 - c. CPU;

i. What you mean by "input devices"? Explain.

ii. What you mean by "number system" in computing? Explain.

iii. Convert the following into Binary:

a) $(56)_{10}$

b) $(785.65)_{10}$

c) $(458)_{10}$

iv. Convert the following into Octal:

a) $(1000101010)_2$

b) $(1111.000101)_2$

c) $(11111111101)_2$

v. Convert the following into Octal.

a) $(67)_{10}$

b) $(985.125)_{10}$

c) $(0.25)_{10}$

vi. Explain the following network topologies:

a) Bus Topology

b) Star Topology

c) Ring Topology.

vii. Write down any five advantages of using network?