



EASTERN UNIVERSITY, SRI LANKA
DEPARTMENT OF MATHEMATICS

EXTERNAL DEGREE EXAMINATION IN SCIENCE –2008/2009
FIRST YEAR FIRST SEMESTER (Dec/Jan, 2012/2013)
EXTCC 101 – FUNDAMENTALS OF COMPUTER SYSTEMS
(REPEAT)

Answer all questions

Time allowed: 01 hour

- 01.
- a. Name the main components of a Central Processing Unit (CPU) and briefly describe their functions.
 - b. Briefly describe the computer generation.
 - c. Briefly describe any five characteristics of a computer.
 - d. Define the term **Software**. The computer software is classified into two broad categories, explain it with suitable examples.
 - e. What is an Operating system?
 - f. List the functions of an operating system.
- 02.
- a. What you mean by “**input devices**”? Explain.
 - b. What you mean by “**number system**” in computing? Explain.
 - c. Convert the following into Binary:
 - a) $(998)_{10}$;
 - b) $(043.56)_{10}$;
 - c) $(245)_{10}$.
 - d. Convert the following into Octal:
 - a) $(1100111)_2$;
 - b) $(865.356)_{10}$;
 - c) $(A2D)_{16}$.
 - e. Convert the following into Hex:
 - a) $(698)_{10}$;
 - b) $(475)_8$;
 - c) $(0.852)_{10}$.
 - f. What is a network?*
 - g. Briefly explain types of network.