SOUTH EASTERN UNIVERSITY OF SRI LANKA

CENTRE FOR EXTERNAL DEGREES AND PROFESSIONAL LEARNING

FIRST EXAMINATION IN BACHELOR OF COMMERCE (EXTERNAL) 2011/2012

HELD IN APRIL/MAY, 2013

COM 12 (I)- COMPUTER LITERACY AND BASIC APPLICATION -1

Duration: **02 hours**
Answer all Questions

Question 1

a) Explain the difference between data and information. How do these two terms relate to the classic computer concept of "Garbage in, Garbage out"?

b) Explain how ICT contributes to an organization.

c) What is the difference between primary and secondary memory.

d) What are the main advantages of storing an application in the memory of a computer?

(24 Marks)

Question 2

a) Draw a Block diagram of the general structure of a computer.

b) Describe the main functions of each of the main structural components in the diagram.

c) List the differences between application software and system software. Give example for each

d) Explain why a computer is not useful without the system software.

(24 Marks)

Question 3

a) Discuss the implications of using illegal software.

b) Explain the main network topologies and compare their advantages and disadvantages?

c) Define information browsing using internet. What facilities does a browser provide?

d) Describe computer viruses with examples.

(24 Marks)

Question 4

a) Find the decimal equivalent of the following binary numbers.

    i)   11010110

    ii)   111011

(2 Marks)

b) Convert 5749_8 to Decimal, Binary, and Hexadecimal Numbers.

(4 Marks)

c) Solve the following problems

    i) 10111_2 ii. 16_8 iii. 68_{16}

    $+$ 11111_2 $+$ 21_8 $+$ 97_{16}

    _____   _____   _____

    _____   _____   _____

(6 Marks)

d) Write short notes to the following

    i)   Compiler and interpreter

    ii)   Fifth Generation of computer

    iii)   LAN and WAN

    iv)   Application software

(16 Marks)

(Total 28 Marks)