UNIVERSITY REGULAR EXAMINATIONS

2013/2014 ACADEMIC YEAR

SCHOOL BASED

FIRST YEAR FIRST SEMESTER EXAMINATION

FOR THE DEGREE
OF
BACHELOR OF EDUCATION

COURSE CODE: CSC 110

COURSE TITLE: FUNDAMENTALS OF COMPUTING

DATE: 29 /APRIL/2014   **TIME: 3:00P.M. – 6:00P.M.**

INSTRUCTIONS

- Answer **QUESTION ONE a**nd attempt **ANY OTHERTWO** questions

Question One (30 Marks)

a) Define the following terms as used in computers   (3 Marks)

    a. Computer

    b. Data

    c. Information

b) Outline the various classifications of computers with respect to each of the following;

    a. Size   (4 Marks).

    a. Technology   (3 Marks)

    b. Purpose   (2 Marks)

b) Explain the three variations of Read Only Memory (ROM)   (6 Marks)

c) List four characteristics of main memory   (4 Marks)

a) Outline the two commonly used visual display unit (VDU) technologies   (4 Marks)

b) Write the following in full;

    a. HTTP   (1 Mark)

    b. FTP   (1 Mark)

c) List any two communication services that are facilitated by the Internet   (2 Marks)

Question Two (20 Marks)

a) Using an illustration explain the basic computer organization and all its functional units

                                                           (10 Marks)

b) Convert each of the following from binary to decimal
    a. 1010101   (3 Marks)

    b. 11001.11   (4 Marks)
    c. 1111110   (3 Marks)

Question Three (20 Marks)

a) Highlight six functions of an operating system   (6 Marks)
b)
    a. Explain why the CPU is known as the brain of the computer   (2 Marks)
    b. Explain the three functional units of the central processing unit (CPU)

                                                           (6 Marks)
c) Outline the three types of system bus   (6 Marks)

Question Four (20 Marks)
a) Outline any six characteristics of computers   (6 Marks)

b) Describe the three possible user interfaces that any operating system is likely to provide to a user

(6 Marks)

c) Explain the two broad categories of computer software (6 Marks)

d) What do you understand by the term 'Booting' (2 Marks)

Question Five (20 Marks)

a) Describe three network topologies (9 Marks)

b) Outline any six applications of computers (6 Marks)

c) Highlight five disadvantages of computers (5 Marks)