COURSE CODE: ICT 3112

COURSE TITLE: UNIX/LINUX SYSTEM ADMINISTRATION

EXAM VENUE: STREAM ICT

DATE: EXAM SESSION:

TIME:

INSTRUCTIONS

1. **Answer Question 1 (Compulsory) and ANY other TWO questions**
2. **Candidates are advised not to write on the question paper**
3. **Candidates must hand in their answer booklets to the invigilator while in the examination room**

QUESTION ONE 30 MARKS

The following are basic Unix/Linux commands briefly describe their functions

(a)   (i) Cat   (2 Marks)

         (ii) Spell   (2 Marks)

         (iii) Ed   (2 Marks)

         (iv) Ls -1   (2 Marks)

         (v) Cal   (2 Marks)

         (vi) Mount   (2Marks)

         (vii) Pipe   (2 Marks)

         (viii) Cp   (2 Marks)

         (ix) rm   (2 Marks}

         (x) ls   (2 Marks)

(b) What is the sole job of a directory in Unix/Linux operating systems? (4 Marks)

(c) Who will be recipient of the following instruction

    $mail -s "Test Message" admin@yahoo.com (2 marks)

(d) What is syntax. (2 marks)

(e) List two shells as used in Unix operating system.(2 marks)

QUESTION TWO 20 MARKS

a) Briefly describe the four concepts that unite all the versions of Unix.   (12 Marks)

b) What are the two facilities offered by Unix/Linux.   (4 Marks)

c) Unix Super user (Administrator) has a number of security rules and mechanisms to enforce security in a network list four of them.   (4 Marks)

QUESTION THREE 20 MARKS

(a) There are three basic types of files In Unix/Linux operating systems. Briefly describe the files. (9 Marks)

(b) List four advantages of Unix/Linux file systems (4Marks)

(c) ***** and **?** are metacharacters in Unix/Linux which have a special meaning. Explain the meanings (6 marks)

(d) What is an invisible file in Unix/Linux? (1Mark)

QUESTION FOUR 20 MARKS

(a) A directory contains several files write a command in Unix that would select only documents files created in the month of MAY (4 marks)

(b) How do you create a Directory in Unix/Linux operating systems (4 Marks)

(c) Every file in Unix/Linux has attributes. Describe the three main file attributes of Unix/Linux operating system. (6 Marks)

(d) When a Unix system is switched ON the shell goes through Initialization process name the two files it read during this process. (6 Marks}

QUESTION FIVE 20 MARKS

(a) Briefly describe the main purposes of DNS (Domain Name System. (5 Marks)

(b) The Dynamic Host Configuration Protocol is a network management protocol briefly describe how its used in a network (10 Marks)

(c) Explain the advantages of using SAMBA soft ware. (5 marks)