



**BONDO UNIVERSITY COLLEGE**

**UNIVERSITY EXAMINATION 2012/2013**

**1<sup>ST</sup> YEAR 1<sup>ST</sup> SEMESTER EXAMINATION FOR DIPLOMA IN  
LINUX ENGINEERING  
(KISUMU LEARNING CENTRE)**

**COURSE CODE: ICT 2213**

**TITLE: NETWORK SYSTEMS INTEGRATION AND ADMINISTRATION**

**DATE: 11 /12/2012 TIME: 10.00-12.00PM**

**DURATION: 1.30 HOURS**

**INSTRUCTIONS**

- 1. This paper contains TWO sections**
- 2. Answer ALL questions in section A (Compulsory) and ANY other 2 Questions in section B**
- 3. Write all answers in the booklet provided**

**SECTION 1: Answer All Questions**

**1.**

- a) What is open source software? Does it differ from freeware? 2 marks
- b) What is the critical thing to do before you install any OS on a machine, be it Linux, windows or Mac? 2 marks
- c) What do u understand by GNU in Linux circles 2 marks
- d) True or false? Linux is a registered trade mark in the United States and other countries, licensed exclusively through X/Open Company Ltd 2 marks
- e) Which command is used to display list of previously executed commands? 2 marks
  - i). \$ PATH
  - ii). \$ fc -l
  - iii). \$ echo
  - iv). None of the above
- f) State any five roles/duties of a system administrator? 5 marks
- g) List any 5 Linux distros available 5 marks

**SECTION 2: ANSWER ANY TWO QUESTIONS**

**2.**

- a) What is the principle of least privilege (POLP)? How does applying this principle help the work of system and network administrators? 4 marks

b)

Match the following items and where they can be managed from the control panel  
(*Ease of access, Hardware and sound, Programs, System security, User accounts and family safety, Appearance and personalization, Clock, language and region, Network and internet*)

- i). Backup your computer ..... 2 marks
- ii). Choose home group and sharing options ..... 2 marks
  
- iii). Adjust commonly used mobility settings ..... 2 marks
- iv). Uninstall a program ..... 2 marks
- v). Change a password ..... 2 marks
- vi). Adjust screen resolution ..... 2 marks
- vii). Change keyboards and other display methods ..... 2 marks
  
- viii). Let windows suggest settings ..... 2 marks

**3.**

- a) State 3 steps on how to change a password in Windows 7 3 marks
- b) True or false? Everything in UNIX is not owned by a user and a group. 2 marks
- c) What are the different security features in UNIX? 3 marks
- d) What is Kernel? 2 marks
- e) Explain the two primary reasons of backup? 4 marks
  
- f) Explain the 3 main types of backups 6 marks

4.

- a) What are the different commands used to create files? 3 marks
- b) Explain any 3 benefits of applying principle of least privilege (POLP) in system administration 6 marks
- c) Name the three parts that make up a UNIX operating system 3 marks
- d) What is Just enough Operating System (JeOS)? 2 marks  
When IIS (Internet Information Services) is installed, a client can manage and connect to printers using a web-browser. 2 marks
- e) When connecting to a network printer a URL can be specified as the printer, this will allow a user to submit print jobs over the Internet. 2 marks
- f) How are devices represented in UNIX? 2 marks

5.

- a) The command ‘.....’ command removes directories 2 marks
  - i). del
  - ii). rmdir
  - iii). remove direc
  - iv). none of the above
- b) The ..... command is used to change the working directory 2 marks
  - i). cd
  - ii). pwd
  - iii). path
  - iv). change directory
- c) The .....command can be used to display the directory that the shell is working in (the working directory). 2 marks
  - i). cd..
  - ii). echo
  - iii). pwd
  - iv). none of the above
- d) True or false? Everything on Linux is either a file or a directory. 2 marks
- e) The ..... command has been described as the most common Unix command. Its task is simply to display a list of the files in some directory (the working directory is the default). 2 marks
  - i). echo
  - ii). path
  - iii). ls
  - iv). none of the above
- f) The ‘.....’ command is used to rename a file, or move it from one directory to another 2 marks
  - i). ls
  - ii). cd
  - iii). mov
  - iv). mv
- g) The ‘.....’command is used to remove files 2 marks

- i). remov
- ii). mov
- iii). rm
- iv). none of the above

h) The 'cp' command creates copies of files. 2 marks

- i). cp
- ii). help
- iii). copy
- iv). none of the above

i) The '.....' command creates directories 2 marks

- i). make
- ii). mkdir
- iii). create
- iv). dir

j) What is the use of grep command? 2 marks