



KENYA METHODIST UNIVERSITY

END OF 2ND TRIMESTER 2010 EXAMINATIONS

FACULTY : **SCIENCE AND TECHNOLOGY**
DEPARTMENT : **COMPUTER SCIENCE & BUSINESS INFORMATION**
UNIT CODE : **CISY 202**
UNIT TITLE : **OPERATING SYSTEMS LAB**
TIME : **2 HOURS**

Instructions: Answer Question **one** and any other **two** questions.

Question 1 (30 Mks) Compulsory

- Define the term UNIX. Describe the parts of the UNIX system. [5 MKS]
- Explain the following commands. [10 MKS]
 - Mkdir
 - Cd
 - Pwd
 - Cp
 - Ls
- Describe the term process. Briefly explain the modes of running a process. How do you check the information on a process? [7 MKS]
- Using an illustration, indicate different ways of compressing a file. [4 MKS]
- What are some of the things which make Linux an operating system of choice? [4 MKS]

Question 2 (15 Marks)

- Using examples, describe different types of environment variables. [6 MKS]
- What is the difference between PATH and path? [2 MKS]
- Describe four different types of files of a UNIX system. [4 MKS]
- Permissions are defined for three types of users, give and explain. [3 MKS]

Question 3 (15 Marks)

- Define the following terms: root password, Root user account. [4 MKS]
- How do you change the root password? [2 MKS]
- Red Hat Linux and Fedora Core support seven run levels, briefly discuss them. [7 MKS]
- How do you configure a firewall? [2 MKS]

Question 4 (15 Marks)

- Briefly describe the text editors in a Linux based system. [6 MKS]
- What command would be used to view your history list in the command prompt for the last 8 entries? [2 MKS]
- Illustrate how to create a user account from the shell prompt. [5 MKS]
- What is the output of the following command?
\$ echo "I am \$[2007 - 1957] years old." [2 MKS]