THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

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MAIN EXAMINATION

JANUARY – APRIL 2015 TRIMESTER

FACULTY OF SCIENCE

DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

REGULAR PROGRAMME

CMT 203: INTRODUCTION TO SYSTEM ADMINISTRATION

APRIL 2015 Duration: 2 Hours Date: Instructions: Answer Question ONE and any other TWO Questions. Q1. Discuss any five key systems administrative responsibilities. a) (4 marks) b) Distinguish between the following giving an example in each. (4 marks) Command options and command arguments i) Absolute and relative paths ii) Command mode and insert mode of the vi editor iii) The mv and rm commands. iv) Ext2 and ext3 filesystems. V) c) Explain the role of the following directories /bin i) /etc ii) iii) /home iv) /boot (4 marks) You need to create and mount a new partion in your linux box hard disk. d) Discuss how you can achieve this using fdisk and mount command. (6 marks) Explain the command statement below. Q2. a) (4 marks) Mount -t ext2 -oro, noexec/dev/sda6/data i)

CUEA/ACD/EXM/JANUARY - APRIL 2015/SCIENCE (Computer)

ii)

iii)

iv)

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		v)	Тор		
	b)	List do	own the factors that can cause a system to fail to boot.	o fail to boot. (6 marks)	
	c)	Discuss any of linux configuration files that are crucial to user management.			
Q3.	a)	Explai i) ii) iii) iv) v)	in the output of the following command. (1 marks each) History History 10 History –C !65 !string	(4 marks)	
	b)	Explain the output of the following command.			
		vi) vii) viii) ix) x)	Chmod a-wx file1/home/john/*.january Chmod 644*.txt tr a-z A-Zdump grep marks lists/sort-n-k4 rm Backups /*.199 [2-5]/ expenses??		
	c)	Examine the bash output below -rwsrwsrwt 1 James users 0 2013-03-16 12:50 dumps i) Which command was used to give such an option.		(1 marks)	
		ii)	Explain the significance of the two S and t it the output.	(4 marks)	
Q4.	a)	Explai i. ii. iii. iv. v.	in the meaning of the following vi commands (1 mark eac q: q! Wq: W file 20:		
	b)	Write the commands that will accomplish the followingi) Find all ordinary file owned by root which have zero length send the list to zerosize.			
		ii)	Delete file under /home with names ending 'bak' which habeen accessed for two weeks.	(3 marks) nave not	
	c)	Discuss in point form the key file system management role for a administrator.		(4 marks) systems	
		aumin	แรแสเบา.	(8 marks)	

Q5. a) Discuss the details the man pages provide for every command.

(8 marks)

b) Discuss the administrative possibilities made possible by the useradd command.

(6 marks)

c) Discuss any four mostly run levels in Linux.

(4 marks)

END