THE CATHOLIC UNIVERSITY OF EASTERN AFRICA



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MAIN EXAMINATION

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JANUARY - APRIL 2019 TRIMESTER

FACULTY OF SCIENCE

DEPARTMENT OF COMPUTER AND LIBRARY SCIENCE

REGULAR PROGRAMME

DIT 011: LINUX ESSENTIALS

Date: APRIL 2019

INSTRUCTIONS: Answer Question ONE and any other TWO Questions.
Calculators MAY BE USED

- Q1. a) Name two individuals who have greatly contributed to the development of Open Source Software and briefly explain their contribution. (4 marks)
 - b) Compare and contrast between Microsoft office and LibreOffice. (7 marks)
 - c) Compare and contrast between Microsoft Windows and Linux. (5 marks)
 - d) Explain with an example the role of the Linux man command (3 marks)
 - e) List any 4 applications area of Linux OS. (4 marks)
 - f) Discuss in details how Linux kernel versions are managed. (4 marks)
 - g) Name any three Linux shells that you can use. (3 marks)
- Q2. 1. Give any four options of the wc command (4 marks)
 - 2. Discuss three ways one can create a text file in Linux. (6 marks)
 - 3. Discuss the use of the following sort command. (10marks)

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		ii. Switch between the insert mode and the commiii. Delete the next five character from the cursor:iv. Delete the next 7 words:v. Delete the characters to the end of the linevi. Delete the next three lines	nand mode:
QU.	u)	i. Save the current file and quit the editor:	(/marks)
Q 5.	a)	Write the vi editor commands that will :	(7marks)
		iii) Grep command	(4 marks)
		ii) find command	(3 marks)
	c)	Explain with examples any three (3) options used with the forcomments. i) Ls command	ollowing (3 marks)
	,	marks)	·
	b)	Distinguish with examples between relative and absolute pa	ath references. (3
Q4.	a)	Write a script that will return the sum of any 7 values entered prompt.	d at the command (7 marks)
		(10marks)	
	b)	v. /boot Discuss the steps required to install a networked Linux work	station system
		iii. /home iv. /etc	
		ii. /dev	
		i. /root	
Q3.	a)	Explain the role of the following directories.	(10marks)
		e. sort -r -n -k4 myfile tail -1	
		d. sort -r -n -k4 myfile <i>myfile.</i>	
		b. sort -n myfile :c. sort -n -k4 myfile	
		a. sort mynie:	

	b)		Explain the role of the following positional parameters.	(7marks)
		 2. 3. 4. 5. 6. 	\$IFS \$PS1 \$PS2 \$\$ \$# \$0- \$9 \$* Explain what the script below does	(6marks)
	if gr ther ech else	ep n o T	pash -q \$1 /etc/passwd The user \$1 has an account The user \$1 does not have an account	
Q 6.	a)	Dis	scuss factors that has lead to the first development of Linux	(6marks)
	b)	Ex	plain the role of the five useful init levels.	(5marks)
	,	an list	rite a script that prompts you for the name of a directory, capted use to create a directory, then moves to that directory and cing of the directory arks)	
			END	

1. Save the current file to a new text named myfile