

THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

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MAIN EXAMINATION

00200 Nairobi - KENYA

SEPTEMBER -DECEMBER 2021

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FACULTY OF SCIENCE

Ext 1022/23/25

DEPARTMENT OF COMPUTER SCIENCE

REGULAR PROGRAMME

DIT 017: INTRODUCTION TO SYSTEM ADMINISTRATION

Date: DEC 2021 Duration: 2 Hours 30 Minutes

INSTRUCTIONS: Answer Question ONE and any other TWO Questions in SECTION B NOTE:

- i.) You are required to answer all questions in section A and any TWO in section B without leaving any blank question. You will be penalized for leaving any blank space for the questions selected.
- ii.) Ensure that you use the best HANDWRITING and CORRECT SPELLINGS.

Q1.

a)	Briefly discuss the windows Operating system history.	(4marks)	
b)	Discuss any TWO types of windows server in the world today.	(4marks)	
c)	Discuss the functions of the following Linux commands:	(4marks)	
	(i) ls		
	(ii) help		
	(iii) date		
	(iv) ls -1		
d)	Explain FOUR reasons why you could prefer Linux/Unix servers to windows server.		
		(4marks)	
e)	Define the term workstation giving an example.	(2marks)	
f)	State THREE roles of a system administrator.	(3marks)	

i) Highlight **TWO** architectural components of the Linix/Unix system.

g) Using examples discuss any TWO Unix/Linux metacharacter commands.

h) State **TWO** reasons for performing disk partitioning for your organization.

(5marks)

(2marks)

(2marks)

	a)	Discuss THREE hardware requirements for any server installation that a system a would recommend for a startup organization.	dministrator (6marks)
	b)	Discuss the functions/roles of the following commands in managing file systems:	(omarks)
	U)	i) fsck	(1mark)
		ii) who	(2marks)
		iii) cal	(1marks)
		iv) cp	(2marks)
	c)	Differentiate between Network administration and System administration.	(2marks)
	d)	State the function of mkdir Linux command.	(2marks)
	e)	Explain why you would prefer to use <i>Linux/Unix</i> Operating System than window	•
	•)	organization.	(4marks)
Q3		organization.	(1111111115)
QJ	•		
	a)	Define the term System administrator.	(1mark)
	b)	State TWO types of servers that are widely in use today at Safaricom Data Centre	. (2marks)
	c)	Outline THREE things that a system administrator must do when registering a pri	nter with a
		BSD-LIKE printer service.	(4marks)
	d)	Define the term workstation giving an example.	(3marks)
	e)	Discuss the FIVE Unix/Linux shutdown commands.	(10marks)
Q 4	٠.		
	a)	Discuss THREE file Unix attributes used in Unix/Linux file permission operation	, ,
	b)	Explain the TWO Unix/Linux changing owners and groups commands.	(4marks)
	c)	Discuss how you could perform installation of Linux Operating System through or	
	1\	VM Box tool.	(6marks)
	d)	State FOUR roles of an IT administrator at CUEA University.	(4marks)
Q5			
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	a)	Discuss FOUR benefits of using Linux as your Operating System.	(4marks)
	b)	What is Kernel? Discuss its FOUR components.	(4marks)
	c)	State FOUR duties of a System administrator in an organization.	(4marks)
	d)	What is disk partitioning?	(2marks)
	e)	Explain what happens when the disk partition overlaps.	(2marks)
	f)	Define the following terms:	(4marks)
		(i) DNS	ŕ
		(ii) DHCP	