THE CATHOLIC UNIVERSITY OF EASTERN AFRICA



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MAIN EXAMINATION

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MAY – JULY 2019 TRIMESTER

FACULTY OF SCIENCE

DEPARTMENT OF COMPUTER AND LIBRARY SCIENCE

REGULAR PROGRAMME

DIT 002: FUNDAMENTALS OF INFORMATION TECHNOLOGY

Date: JULY 2019 Duration: 2 Hours

INSTRUCTIONS: Answer Question ONE and any other TWO Questions

- Q1. a) Differentiate between the terms Hardware and Software as used in information technology (4marks).
 - b) Identify and list any four methods that can be used to acquire software legally (4marks).
 - c) On the basis of computing power, identify and briefly explain any five features you would seek to evaluate to differentiate between Micro, Mini, Mainframe and super computers. (10marks)
 - d) Identify and briefly explain any two advantages of adapting electronic data processing as compared to manual systems (4marks).
 - e) Define / Explain the following terms as used in information Technology:
 - i) Peripheral device

(2marks)

ii) Byte

(2marks)

iii) Clone computer

(2marks)

iv) Compiler

(2marks)

Q2. a) Differentiate between Application Software and System Software

(4marks)

b) Identify and briefly explain any four main functions of an operating system software (8marks).

	c)	"Many computer users have been noticed to prefer using grainterface based systems as compared to command line or M interfaces". Justify this Statement.	•
Q3.	a)	Define / Explain the term Network Topology	(2marks).
	b)	Using the help of a sketch diagram, briefly explain the follow topologies: i) Bus topology ii) Star topology iii) Ring topology	ing network (4marks) (4marks) (4marks)
	c)	Identify and briefly explain any three benefits of using compu	iter Networks (6marks).
Q4.	a)	Suppose you have a personal computer that you would like to browsing the internet and sending e-mails. List and briefly de items you will need in terms of the hardware, software and o provisions so that you can achieve the desired objective.	escribe the
Q5.	a)	Computer based Word processing is said to be a 5-step processely explain how each of these processes are provided for Word program.	
	b)	List and briefly avalain any faur advantages of using assent	

- b) List and briefly explain any four advantages of using computer based word processing as compared to type writer based systems. (8marks).
- c) List any two commonly used professional word processing programs in the market today (2marks).

END