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

DIT 010: INTRODUCTION TO HARDWARE AND TECHNICAL SUPPORT

Date: April 2015 Duration: 2 Hours
INSTRUCTIONS: Answer Question ONE and ANY OTHER TWO Questions

- Q1. a) Briefly describe the following terminologies as used in computer hardware technical support.
 - i) Boot
 - ii) Bus
 - iii) Troubleshoot
 - iv) Electrostatic discharge (ESD)

(8 marks)

b) Briefly describe the POST Process.

(2 marks)

- c) Describe the following types of memory.
 - i) DRAM
 - ii) SRAM
 - iii) EPROM

(6 marks)

- d) List any 2 memory banks that are likely to be found on a computer motherboard today. (2 marks)
- e) Describe how you would access the MS-D0S Command prompt from a windows operating system (2 marks)

	f)	With valid examples provide the use of the following MS-DOS commands; i) EDIT			
		ii)	TYPE	(4 marks)	
	g)		de a description on the assembly procedure of thware components: DVD Drive	e following	
		ii)	Power supply unit	(6 marks)	
Q2.	a)	For each of the file systems; FAT16, FAT32, NTFS; state:			
		i)	1 operating system that uses each of the file system.	(3 marks)	
		ii)	The maximum partition size that is supported by each	h of the file	
			systems.	(3 marks)	
		iii)	1 feature of each of the file systems.	(3 marks)	
		iv)	1 disadvantage of each of the file systems.	(3 marks)	
	b)	Briefly	y describe 4 items that can be configured from the CMOS	settings. (8 marks)	
Q3.	a)		ibe the use of the following components within a windown environment. Device manager	vs operating	
		ii)	Windows registry		
		iii)	Windows control panel		
		iv)	Windows task manager		
		v)	Microsoft Management Console (MMC)	(10 marks)	
	b)	Describe the interfaces of the following components. i) Hard disk			
		li)	Mouse		
		iv)	Printer		
		v)	Keyboard		
		vi)	Screen	(10 marks)	

- Q4. a) Using valid examples, identify the use of the following MS-DOS command i) MKDIR
 - ii) Copy
 - iii) Move
 - iv) Copy CON
 - v) REN (10 marks)
 - b) Describe the features of any **THREE** antivirus programs you are aware of. **(6 marks)**
 - c) Describe the role of the BIOS in a computer system. (4 marks)
- Q5. a) List and describe the functions of any **FIVE** key components used in assembling a new computer system. (10 marks)
 - b) State the interface of each of the components mentioned in (a) above. (5 marks)
 - c) Describe the procedure of installing window operating system in a new machine that had no other operating system. Describe only the key initial stages. (5 marks)

END