THE CATHOLIC UNIVERSITY OF EASTERN AFRICA



# A. M. E. C. E. A

MAIN EXAMINATION

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## MAY – JULY 2018 TRIMESTER

## FACULTY OF SCIENCE

## DEPARTMENT OF COMPUTER AND LIBRARY SCIENCE

#### **REGULAR PROGRAMME**

#### DIT 002: FUNDAMENTALS OF INFORMATION TECHNOLOGY

Date:	JULY 2018 Dura	ation: 2 Hours		
INSTRUCTIONS: Answer Question ONE and any other TWO Questions				
Q1.	a) What is a computer? How does a computer work?	(2 Marks)		
	b) State and explain five major characteristics of computers.	(10 Marks)		
	c) In the evolution of computers, explain the computer generat major technology in each generation?	ions stating the <b>(8 Marks)</b>		
	d) Computers regardless of their sizes perform five major oper functions. In brief state the five areas to which they operate?			
Q2.	a) Discuss Computer memory classification.	(4 Marks)		
	<ul><li>b) What is the meaning of the following terms?</li><li>a) Hardware</li><li>b) Software</li></ul>	(4 Marks)		
	c) In computer architecture how is the CPU and the memory co	onnected? (6 Marks)		
	d) Giving at least two examples explain the role of an operating computer system.	g system in a <b>(4 Marks)</b>		
	e) How do users interact with the computer?	(2 Marks)		

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Q3.	a)	Explain the meaning of the following terms as used in compute Programming a) Writing Program b) Compiling Program c) Executing Program	r (6 Marks)
	b)	Explain the following computer languages. a) Machine Language b) Assembler Language c) High Level Programming Languages	(6Marks)
	c)	Explain the two major classifications of software.	(4 Marks)
	d)	Explain what is responsible for processing interaction between the operating system.	the user and (4 Marks)
Q4.	a)	What do you call the programs that are used to find possible fa causes?	ults and their (2 Marks)
	b)	Give two terms would you use to refer to the computer ability to tiredness or boredom?	be free from <b>(2 Marks)</b>
	c)	Describe two possible ways to which computers give out their o	utput. <b>(4 Marks)</b>
	d)	Which computer component would you describe it as the brain of computer and why?	of the <b>(4 Marks)</b>
	e)	<ul> <li>Explain the meaning following terms as used in computers.</li> <li>a) Control unit</li> <li>b) Optical scanner</li> <li>c) Gigabit</li> <li>d) Terminal</li> </ul>	(8 Marks)
Q5.	a)	How do compilers differ from translators?	(4 Marks)
	b)	Which component is responsible for mathematical calculations a functions in the computer?	and logical <b>(2 Marks)</b>
	c)	Dorothy got to the computer laboratory and started her computer Unfortunately her computer could not start. As a computer scier prompted to support her. Describe any three things you would o troubleshoot this problem.	ntist you were

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- d) What do you refer to a fault in the computer program that prevents it from working correctly? (4 Marks)
- e) State and explain two computer crimes we can commit. (4 marks)

\*END\*

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