Date: APRIL 2018

THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

A. M. E. C. E. A

P.O. Box 62157 00200 Nairobi - KENYA Telephone: 891601-6 Fax: 254-20-891084 E-mail:academics@cuea.edu

Duration: 2 Hours

MAIN EXAMINATION

JANUARY - APRIL 2018 TRIMESTER

FACULTY OF SCIENCE

DEPARTMENT OF COMPUTER AND LIBRARY SCIENCE

REGULAR PROGRAMME

DIT 010: INTRODUCTION TO COMPUTER HARDWARE AND SOFTWARE

INSTRUCTIONS: Answer Question ONE and any other TWO Questions Explain what a computer is, and give the two major categories of a Q1. a) (4 marks) computer List and explain the characteristics of computers that has made them b) powerful and Universally useful (10 marks) c) Outline the FIVE major operations that a computer carries our (5 marks) d) With the aid of a diagram explain the Basic computer organization (10 marks) Name the two classifications of memory (1 mark) e) Q2. Differentiate between RAM and ROM a) (6 marks) Explain what input and output devices are and give TWO examples of b) each (8 marks) Differentiate between a printer and a Plotter (6 marks) c) Q3. Explain what computer software is (5 marks) a) List and explain the TWO major categories of software and give two b) examples of each (10 marks)

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- c) Differentiate between a Compiler and an Interpreter (5 marks)
- Q4. a) Explain what is a Virus and the THREE main types of viruses (8 marks)
 - b) Outline and explain how the following groupings of viruses infect the computer (6 marks)
 - i) Time Bomb
 - ii) Trojan Horse
 - iii) Worm
 - c) List and explain the two categories of antivirus and how they function (6 marks)
- Q5. a) Explain what is a MODEM?

(4 marks)

- b) List and Explain the TWO major types of Monitors that are used with microcomputers (6 marks)
- c) List and explain the FOUR main types of operating systems and how they function (10 marks)

END