TECHNICAL UNIVERSITY OF MOMBASA

INSTITUTE OF COMPUTING AND INFORMATICS

DEPARTMENT OF BUSINESS ADMINISTRATION

UNIVERSITY EXAMINATION FOR:

BACHELOR OF COMMERCE / BACHELOR OF BUSINESS ADMINISTRATION

EIT 4103: FUNDAMENTAL OF COMPUTER SYSTEM

END OF SEMESTER EXAMINATION

SERIES: APRIL 2016

TIME: 2HOURS

DATE: Pick DateSelect MonthPick Year

Instructions to Candidates
You should have the following for this examination
-Answer Booklet, examination pass and student ID
This paper consists of **FIVE** questions. Attemptquestion ONE (Compulsory) and any other TWO questions.
Do not write on the question paper.

Question ONE
a) Show your understanding of the following terms as used in the computer (8 marks)
    i) Software
    ii)Computer
    iii) Extranet
    iv) Internet
b) "Computers are very important in an Organization". Justify this statement by giving four functions of a computer facility within an organization (4 marks)
c) Computerizing business operations may require the users of the computers to be trained. State clearly four reasons for training employees on how to use computers. (4 marks)
d) Highlight five reasons why computers system require secondary storage. (5 marks)
e) By citing an example in each case, classify computers based on the type of data which they can manipulate or according to technology. (9 marks)

Question TWO
a) Describe **five** common security threats faced by an organization's computer – based Information system.
(10 marks)
b) Explain **five** techniques that accompany can employ in reducing the threats in (a) above. (10 marks)

Question THREE

a) By citing an example in each case, differentiate between the following terms as used in computer

    i) Primary memory and Auxiliary memory   (4 marks)

    ii) Utilities softwares and Operating system   (4 marks)

    iii) System softwares and Application softwares   (4 marks)

b) Highlight two advantages and two disadvantages of a Cache memory.   (4 marks)

c) Computers have various applications in the real life situation. Highlight four application areas in which computers are being used at our homes.   (4 marks)

Question FOUR

a) Buying a computer from the market requires a careful consideration. Explain any three specifications that one should considered when sourcing for a computer.   (6 marks)

b) Highlight four sources of computer viruses.   (4 marks)

c) Using a well labeled diagram, identify the hardware components in a modern computer system and their roles in processing information.   (10 marks)

Question FIVE

a) In a computer system both input devices and output devices are used as a means to carrying out computational processes. Define the term input devices and output devices; and state any two devices for each category

                                              (8 marks)

b) Using a suitable example and the following methods, explain how a negative number can be represented in a computer system.

    i) 1's Complement Method   (3 marks)

    ii) 2's Complement Method   (3 marks)

c) Explain three functions of an Operating System in a Computer   (6 marks)