(TheUniversity of Choice)

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

UNIVERSITY EXAMINATIONS

MAIN CAMPUS

2018/2019 ACADEMIC YEAR

FIRST YEAR FIRST SEMESTER EXAMINATIONS

FOR THE DEGREE
OF
BACHELOR OF SCIENCE (IT, ISKM, EDA, EDS)

COURSE CODE: BIT 113

COURSE TITLE: INFORMATION TECHNOLOGY FUNDAMENTALS

DATE: THURSDAY 31/01/2019   **TIME:** 3:00P.M-5:00P.M

INSTRUCTIONS TO CANDIDATES
Answer questions ONE and any other TWO questions.

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 3 Printed Pages. Please Turn Over.

QUESTION ONE [COMPULSORY] [30 MARKS]

1. How can different industries benefit from using a computer? [4 Marks]
2. Explain three different devices that can be found in a network. [6 Marks]
3. Explain the uniqueness of a computer that has led to its adoption. [4 Marks]
4. Differentiate between the following: [4 Marks]
   i. Primary storage and secondary storage ii. Motherboard and keyboard
5. Explain the following: - [6 Marks]
   i. My Computer ii. Recycle Bin iii. Internet explorer.
6. Explain the different components of the CPU. [4 Marks]
7. Define a modem. [2 Marks]

QUESTION TWO [20 MARKS]

1. List explain four different software applications you can use in relation to your career. [4 Marks]
2. Explain how the corporate world can benefit from internet. [4 Marks]
3. Why is a computer often referred as a system? [2 Marks]
4. Differentiate between the following: [6 Marks]
   i. Data and information
   ii. Copy-paste and cut-paste iii. Input interface and output interface
5. Explain the different benefits that one can enjoy by having a computer at home. [4 Marks]

QUESTION THREE [20 MARKS]

1. Define the following:- [3 Marks]
   i. Internet ii. Computer network iii. Topology
2. Explain four important characteristics of a computer that make it distinct from human beings. [4 Marks]
3. Explain the role of system software in a computer. [4 Marks]
4. Explain the different benefits of internet to a society. [5 Marks]
5. Describe at least four services which can be provided by internet. [4 Marks]

QUESTION FOUR [20 MARKS]

1. Convert the following numbers:
   a. 101012 to Decimal
   b. 29_{10} to Binary   [3 marks]
   c. $19FDE_{16}$ to Decimal   [3 marks]
   d. 25_8 to Binary   [3 marks]
   e. 15_{16} to Decimal   [4 marks]
   f. 10101_2 to Octal   [3 marks]
                                                                   [4 marks]

QUESTION FIVE [20 MARKS]

1. Differentiate between multiprogramming and multiprocessing.   [2 Marks]
2. Differentiate between RAM and ROM.   [3 Marks]
3. How can you organize documents in your system? Describe the procedure. [3 Marks]
4. Differentiate between task bar and task pane   [2 Marks]
5. List out four benefits the education sector can benefit from internet.   [4 Marks]
6. Define the following: -   [6 Marks]
   i. Secondary storage ii. System software
   iii. Computer network