(Knowledge for Development)

KIBABII UNIVERSITY

(KIBU)

UNIVERSITY EXAMINATIONS

2017/2018 ACADEMIC YEAR

END OF SEMESTER EXAMINATIONS

YEAR ONE SEMESTER ONE EXAMINATIONS

FOR THE CERTIFICATE IN INFORMATION TECHNOLOGY

COURSE CODE :   **ITC 010**

COURSE TITLE :   **ICT ESSETIALS**

EXAMS 1

DATE: **18/01/2018**   **TIME: 2.00 – 4.00 PM**

INSRUCTIONS TO CANDIDATE

ANSWER **QUESTION ONE** AND **ANY OTHER TWO**

QUESTION ONE (COMPULSORY) [24 MARKS]

a) Explain the application areas of a computer in the society today. **[10marks]**

b) Using suitable examples differentiate between RAM and ROM, BIT AND BYTE
[8marks]

c) State any six differences between the early computer systems of 1930-1970and the modern computer systems in use today. **[6marks]**

QUESTION TWO [18 MARKS]

a) Using suitable diagram describe the physical components that make up a modern computer system. **[10marks]**

b) With the help of suitable examples, describe briefly the function of each of the components named. **[8marks]**

QUESTION THREE [18 MARKS]

a) Define the following term secondary storage device? **[2marks]**
b) Briefly describe two types of magnetic storage device **[4marks]**
c) Using diagrams, explain any FOUR types of network topologies **[6marks]**
d) Explain two types of computer software **[4marks]**
e) Outline two components that influence the performance of a computer system. **[2marks]**

QUESTION FOUR [18 MARKS]

a) Define the term "data communication" and state its importance **[4marks]**
b) Describe the three different types of cables that are used in date communication. **[6marks]**
c) Explain the four basic operations performed by any computer systems **[8marks]**

QUESTION FIVE [18 MARKS]

a) Distinguish the following concepts. **[8marks]**
   i. Bit and information
   ii. Analog computers and digital computers
   iii. Data and information
   iv. General purpose computers and special computers
b) State any THREE factors you should consider when selecting a site to install computers and explain briefly why they are important. **[6marks]**
c) State and explain any five characteristics of a supplier you should avoid **[8marks]**