**UNIVERSITY OF KABIANGA**

**UNIVERSITY EXAMINATIONS**

**2017/2018 ACADEMIC YEAR**

**FIRST YEAR FIRST SEMESTER EXAMINATION**

**FOR THE DEGREE IN BACHELOR OF INFORMATION SCIENCE AND KNOWLEDGE MANAGEMENT**

**COURSE CODE: ISK 111**

**COURSE TITLE: FUNDAMENTALS OF INFORMATION AND COMMUNICATION TECHNOLOGY**

**DATE: 30/1/2018**

**TIME: 2.00 P.M-5.00 P.M**

**Instructions:**

Answer **QUESTION ONE** and any other **TWO QUESTIONS.**

**QUESTION ONE (30 MARKS)**

a) Explain the following terms as used in Information and Communication Technology:

 i. Information technology. (2 marks)

 ii. Software technologies. (2 marks)

 iii. Computer peripherals. (2 marks)

 iv. Mainframe computer. (2 marks)

 v. Data. (2 marks)

b) Explain the functions of the CPU in a computer. (4 marks)

c) Describe any **four** design characteristics of the present day generation of computers. (8 marks)

d) Describe the functions of an operating system in a computer. (8 marks)

**QUESTION TWO (20 MARKS)**

a) Distinguish between LAN and WAN computer networks. (8 marks)

b) Discuss any **six** benefits of using the internet. (12 marks)

**QUESTION THREE (20 MARKS)**

a) Highlight any **four** types of information systems. (4 marks)

b) Distinguish between the terms Internet and World Wide Web (WWW). (4 marks)

c) Explain any **three** reasons for the application of information and communication technology in business. (6 marks)

d) Describe any **three** types of system programs. (6 marks)

**QUESTION FOUR (20 MARKS)**

a) Explain the meaning of the following terms:

 i. Hardware. (2 marks)

 ii. Data sequencing. (2 marks)

 iii. Data Routing. (2 marks)

b) Describe the main parts of a computer system. (8 marks)

c) Presentation of graphics slides can be viewed from different angles. Describe any **three** of these viewpoints. (6 marks)

**QUESTION FIVE (20 MARKS)**

a) Explain any **three** uses of a database. (6 marks)

b) Explain any **four** areas in which spreadsheets can be applied as a productivity tool. (8 marks)

c) Describe the types of relationships applied in databases. (6 marks)