



MAASAI MARA UNIVERSITY

**REGULAR UNIVERSITY EXAMINATIONS
2017/2018 ACADEMIC YEAR
FIRST YEAR FIRST SEMESTER**

**SCHOOL OF SCIENCE & INFORMATION SCIENCES
BACHELOR OF EDUCATION (ARTS)**

COURSE CODE: BCOM 1100

**COURSE TITLE: INTRODUCTION TO COMPUTER
TECHNOLOGY**

DATE: 26TH APRIL, 2018

TIME: 1430 -1630 HRS

INSTRUCTIONS

1. Answer Question ONE and any other TWO Questions From Section II
2. Question 1 is compulsory.
3. Time 2HRS.
4. *Mobile phones are NOT ALLOWED in the examinations room.*

SECTION 1

Question 1 (total, 30 marks)

- (a) Give an elaborate definition of a computer **(2 marks)**
- (b) Explain the difference between an analogue computer and a digital computer. **(4 marks)**
- (c) Define a register and describe where they are located within a computer system. **(3 marks)**
- (d) Explain what you understand by 'parity bit' and why they are important in computer technology. **(4 marks)**
- (e) Identify and briefly explain any five capabilities of a word processing package. **(5 marks)**
- (f) Describe what are referred to in computing as integrated packages, give an example. **(3marks)**
- (g) Outline four main areas of business or administration where you would recommend application of computers. **(4 marks)**
- (h) Define RAM and briefly explain two main types of RAM. **(5 marks)**

SECTION II (Answer any two questions.)

Question 2

- (a) Most of the computers that were developed in the 1940s were generally experimental in nature. Two of the important ones are colossus and ENIAC. Give detailed explanation of each of these computer two types. **(10 marks)**
- (b) Based on various technological developments since the early computers, give a classification of computers into five main generations. Give the specific technologies that define each of the generations identified. **(10 marks)**

Question 3

- (a) Define a computer systems software and give an example. **(4 marks)**
- (b) The operating systems is sometimes referred to as the boss of the computer. Discuss the main activities performed by the computer operating system. **(16 marks)**

Question 4

- (a) What is a database? **(2 marks)**
- (b) Define a database management systems and explain any four of its objectives. **(10marks)**
- (c) Explain four main features of a typical DBMS. **(8 marks)**

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