



# **MAASAI MARA UNIVERSITY**

**REGULAR UNIVERSITY EXAMINATIONS**

**2018/2019 ACADEMIC YEAR**

**FIRST YEAR FIRST SEMESTER**

**SCHOOL OF ARTS AND SOCIAL SCIENCES /**

**SCHOOL OF BUSINESS AND ECONOMICS**

**DIPLOMA IN SOCIAL WORK /**

**DIPLOMA IN BUSINESS**

**MANAGEMENT**

**COURSE CODE: DAS 104**

**COURSE TITLE: INTRODUCTION TO COMPUTER &  
APPLICATIONS**

**DATE: 22<sup>ND</sup> AUGUST, 2019**

**TIME: 0830 - 1030 HRS**

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**INSTRUCTIONS TO CANDIDATES**

1. Answer Question **ONE** and any other **TWO** questions
2. Do not forget to write your Registration Number

*This paper consists of 3 printed pages. Please turn over.*

## Question One

- a) What is computer hardware? **(1 Mark)**
- b) Name the computer elements needed to process data into information. **(4 Marks)**
- c) The central processing unit is referred to as the brain of the computer. It functions through the interaction of three main units. List and describe the units? **(9 Marks)**
- d) With the aid of a diagram give a summary of the processing hardware. **(12 Marks)**
- e) Outline four factors that a company should consider when selecting computer hardware **(4 Marks)**

## Question Two

- a) Software is classified into two major types. Outline and explain them. **(4 Marks)**
- b) Name and briefly describe the two categories of system software **(4 Marks)**
- c) List and describe four utility programs that you know **(12 Marks)**

### Question Three

- a) Discuss the online processing. Mention its application, advantages and disadvantages **(15 Marks)**
- b) Mzima investment Ltd intends to purchase several computers for their use. Outline five factors that the company should consider when selecting computer hardware. **(5 Marks)**

### Question Four

- a) What is a binary number? **(2 Marks)**
- b) Find the sum of the following numbers:
- i) 10101 and 11011 **(2 Marks)**
- ii) 1011001 and 111010 **(2 Marks)**
- c) Find the difference of the following numbers
- i) 10010 from 1011011 **(2 Marks)**
- ii) 101100 from 1000101 **(2 Marks)**
- d) Convert the following decimal numbers to binary
- i) 892 **(2 Marks)**
- ii) 196 **(2 Marks)**
- iii) 71 **(2 Marks)**
- e) Convert the following binary numbers to decimal
- i) 100101 **(2 Marks)**
- ii) 111101000 **(2 Marks)**

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