



# **MAASAI MARA UNIVERSITY**

**REGULAR UNIVERSITY EXAMINATIONS**

**2021/2022 ACADEMIC YEAR**

**FIRST YEAR FIRST SEMESTER**

**SCHOOL OF ARTS, HUMANITIES, SOCIAL  
SCIENCES AND CREATIVE INDUSTRIES  
DIPLOMA IN SOCIAL WORK AND  
COMMUNITY DEVELOPMENT**

**COURSE CODE: DSS 1200/CRM104**

**COURSE TITLE: COMPUTER APPLICATION**

**DATE:**

**TIME:**

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**INSTRUCTIONS TO CANDIDATES**

- This paper contains **FOUR(4)** questions
- Answer question **ONE(1)** and **ANY** other **TWO(2)** questions from section II
- Question one is **compulsory**

## **SECTION I, COMPULSORY**

### **QUESTION ONE (30 MARKS)**

- a) Define the term computer, and describe the relationship between data and information. **(5 marks)**
- b) State FOUR characteristics of computers. **(4 marks)**
- c) What is the central processing unit of a computer? Why is it so important to the operation of the computer? **(4 marks)**
- d) In a computer system which component is more important, the hardware or software? Explain your answer. **(3 marks)**
- e) Define the term application software and give an example of applications software commonly used for creating and editing documents. **(3 marks)**
- f) Convert the following binary numbers to decimal. Show all your workings. **(6 marks)**
- i) 010100
  - ii) 011111000
  - iii) 001100011
- g) What does connecting to the internet require? **(3 marks)**
- h) An email is used to transfer messages between one to another. State TWO other uses. **(2 marks)**

## **SECTION II, Answer ANY TWO Questions in this SECTION**

### **QUESTION TWO (20 MARKS)**

- a) Explain why computer literacy is vital to success in today's world. **(4 marks)**
- b) Discuss how society uses computers in education, finance, publishing, and manufacturing. **(16 marks)**

### QUESTION THREE (20 MARKS)

a) Computer hardware manufacturers have developed standard binary codes to represent data in the computer. Identify and describe any two. **(4 marks)**

b) Consider the following in binary form and change it into hexadecimal. **(4 marks)**

- i) 1111000
- ii) 10011110

c) Convert the following from octal to binary. **(4 marks)**

- i) 3 7 0
- ii) 1 0 5 7

d) Convert the following from hexadecimal to octal. **(4 marks)**

- i) 2 2 F
- ii) A F 6 3

e) Convert the following from hexadecimal to decimal. **(4 marks)**  
2 C E 9

### QUESTION FOUR (20 MARKS)

a) Explain how the operating systems can be classified. **(4 marks)**

b) An operating system coordinates the activity between the user and the computer. Explain various functions of operating system. **(16 marks)**

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