



MAASAI MARA UNIVERSITY

**REGULAR UNIVERSITY EXAMINATIONS
2022/2023 ACADEMIC YEAR
FIRST YEAR SECOND SEMESTER
FIRST YEAR FIRST SEMESTER**

**SCHOOL OF PURE, APPLIED AND HEALTH
SCIENCES
DIPLOMA IN SOCIAL WORK, DIPLOMA IN
CRIMINOLOGY.**

**COURSE CODE: DSS 1200/CRM 104
COURSE TITLE: COMPUTER APPLICATIONS**

DATE: 9TH DECEMBER, 2022

TIME: 1100-1300

INSTRUCTIONS TO CANDIDATES

- This paper contains **FIVE (5)** 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. 3mks
- b) Define data and information 4mks
- c) Explain the primary components of the computer and their use. 6mks
- d) How are computers classified? 5mks
- e) Convert the following binary numbers to decimal. Show all your workings
 - i) 1001001
 - ii) 1101001 (6mks)
 - iii) 1111001
- f) What type of operating system was used in the first generation of computers? 2mks
- g) Computers can perform multiple tasks simultaneously with equal ease means? 1mk
- h) What does connecting to the internet require? 3mks

SECTION II, Answer ANY TWO Questions in this SECTION

QUESTION TWO (20 MARKS)

- a) Computers can be classified into different classes depending on their capabilities. Discuss the following classification.
 - i. Super-Computers
 - ii. Main frame
 - iii. Mini-computers
 - iv. Micro-computers (10mks)
- b) Discuss how home users, small office/home office users, mobile users, power users, and enterprise users interact with computers. (10mks)

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) Convert the following from decimals to binary numbers
 - i. 66
 - ii. 77
 - iii. 88 (6mks)
- 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. **(2 marks)**

2 C E 9

QUESTION FOUR (20 MARKS)

- a) Explain the difference between single-user operating system versus multi-user operating system. **(4mks)**
- b) An operating system coordinates the activity between the user and the computer. Explain various functions of operating system. **(16 marks)**

QUESTION FIVE (20MKS)

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

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