MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS
2018/2019 ACADEMIC YEAR

FIRST YEAR SECOND SEMESTER

**SCHOOL OF ARTS AND SOCIAL SCIENCES/
SCHOOL OF BUSINESS AND ECONOMICS
DIPLOMA IN SOCIAL WORK /
DIPLOMA IN BUSINESS
MANAGEMENT**

**COURSE CODE: DAS 104/DBM 10
COURSE TITLE: COMPUTER APPLICATIONS**

DATE: 16. 4. 2019   TIME: 8.30AM – 10.30AM

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

Question One

a) XYZ is a Sacco that has been operating a manual system. It is seeking to automate its operations. Suppose the management approaches you for an advice on the same. Highlight five benefits that they would achieve in automating their operation. **(10 Marks)**

b) Describe five factors to put into consideration when looking for a choice of software use. **(10 Marks)**

c) Differentiate between the following terms.

    i)   Input device and output device

    ii)   ROM and RAM

    iii)   Software and Hardware

    iv)   Main memory and Secondary memory

    v)   System software and application software. **(10 Marks)**

Question Two

a) What is an input device? **(2 Marks)**

b) Discuss any five input devices **(5 Marks)**

c) Discuss classification of computers by size. **(8 Marks)**

d) Differentiate between online and batch processing. Give an example for each. **(5 Marks)**

Question Three

a) What does CPU stand for? **(2 Marks)**
b) The CPU functions through the interaction of three different units. Briefly describe these three units. **(6 Marks)**

c) Why is it important to carefully study a warrant before committing yourself by signing it? **(3 Marks)**

d) Distinguish between digital and analog computers giving an example of each. **(4 Marks)**

e) Discuss five functions of the operating system. **(5 Marks)**

Question Four

a) What is a binary number? **(2 Marks)**

Find the sum of the following numbers:

i) 10101 and 11011 **(2 Marks)**

ii) 1011001 and 111010 **(2 Marks)**

Find the difference of the following numbers

i) 10010 from 1011011 **(2 Marks)**

ii) 101100 from 1000101 **(2 Marks)**

Convert the following decimal numbers to binary

i) 892 **(2 Marks)**

ii) 196 **(2 Marks)**

iii) 71 **(2 Marks)**

Convert the following binary numbers to decimal

i) 100101 **(2 Marks)**

ii) 111101000 **(2 Marks)**

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