



Kasarani Campus
Off Thika Road
Tel. 2042692 / 3
P. O. Box 49274, 00100
NAIROBI
Westlands Campus
Pamstech House
Woodvale Grove
Tel. 4442212
Fax: 4444175

KIRIRI WOMENS' UNIVERSITY OF SCIENCE AND TECHNOLOGY
UNIVERSITY EXAMINATION, 2024/2025 ACADEMIC YEAR
FIRST YEAR, FIRST SEMESTER EXAMINATION
FOR THE DEGREE OF BACHELOR OF SCIENCE
(BUSINESS ADMINISTRATION)

12th August 2024
Time: 2.30 – 4.30pm

KBA 107 INTRODUCTION TO MICRO-COMPUTERS

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTION ONE (COMPULSORY) AND ANYOTHER TWO QUESTIONS

QUESTION ONE (30 MARKS)

- a) Define the following terms
 - i) Computer
 - ii) System Bus
 - iii) Operating System
 - iv) Application Package

(4 marks)
- b) Explain four ways of data representation in a computer system

8 marks)
- c) State and explain four reasons for using computers in Business organizations

8 marks)
- d) Describe four functions of an Operating System of a computer

(8 marks)
- e) Describe four file organization and access methods

(4 marks)

QUESTION TWO (20 MARKS)

- a) i) Expand on the acronyms RAM and ROM (4 marks)
ii) Define the terms Hardware and Software (2 marks)
iii) Explain fully the concept of modular construction for a computer system (3 marks)
- b) The Computer Architecture is basically organized into seven levels, discuss (7 marks)
- c) Explain the main components of a Computer System (4 marks)

QUESTION THREE (20 MARKS)

- a) Differentiate between the terms Bit and Byte as used in computing (4 marks)
- b) Explain how the image storage and sound storage are implemented in a computer system (4 marks)
- c) Carry out the tasks following the instructions as given below
- i) Convert the Decimal 113 to Binary (4 marks)
ii) Convert the Binary 1000001 to Decimal (4 marks)
iii) Convert Binary 101 to Octal (4 marks)

QUESTION FOUR (20 MARKS)

- a) List four factors that are considered when selecting a programming language. (4 marks)
- b) (i) Differentiate between a High level and Object Oriented Programming languages (4 marks)
(ii) Identify three types of High Level Programming Languages, and give an example for each (6 marks)
- d) State and briefly explain six basic instruction sets found in a program (6 marks)

QUESTION FIVE (20 MARKS)

Many Organizations which use computers, such as firms and colleges, implement computer networks such as LAN

- a) i) What is a computer network? (2 marks)
ii) Explain different types of networks (6 marks)
- b) Discuss the various types of computer hardware (4 marks)
- c) Define the term Computer Virus and explain four ways in which a virus can implement itself in a computer (5 marks)