



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, 2018/2019 ACADEMIC YEAR
SECOND YEAR, SECOND SEMESTER EXAMINATION
FOR THE BACHELOR SCIENCE (BA, MA, CS & ED)

UNIT CODE: KBA 107/KCS 100

GROUP: BA/CS/MA/ED

UNIT TITLE: INTRODUCTION TO MICRO-COMPUTERS/FUNDAMENTALS OF COMPUTING

EXAM TYPE: MAIN EXAM

LECTURERS NAME: MORRISSON MUTUKU

LECTURES CONTACT: 0724 675 396

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTION ONE (COMPULSORY) AND ANY OTHER TWO QUESTIONS

QUESTION ONE (30 MARKS)

As someone with knowledge of ICT, you have been requested by the management to advice on computerizing its business transactions and also the operational activities in the front offices.

- a) Explain the major types of computer software that you know **(4 marks)**
- b) Identify any three business activities that can be supported by applications software **(6 marks)**
- c) Explain the number systems that are used in computing environment **(8 marks)**
- d) Perform the following number system conversions
 - i) 1011011_2 to Decimal **(4 marks)**
 - ii) 45_8 to Binary **(4 marks)**
 - iii) 454_{10} to Hexadecimal **(4 marks)**

QUESTION TWO (20 MARKS)

- a) Computer system has several components, discuss any five components of computer(10 marks)
- b) The society has been transformed by use of ICT. Describe various activities that are supported by ICT in the society today (10 marks)

QUESTION THREE (20 MARKS)

- a) Describe three input devices and three output devices used in computing (6 marks)
- b) Explain any five modern classifications of computers that you know (10 marks)
- c) Differentiate MICR from OCR (4 marks)

QUESTION FOUR (20 MARKS)

- a) Discuss the functions of the operating system software in computer machine (10 marks)
- b) Explain the major types of computer application software (10 marks)

QUESTION FIVE (20 MARKS)

- a) State reasons why primary storage devices are not reliable to storing information (5 marks)
- b) Computers can be classified in a number of ways. Define the term computer classification and explain four ways of classifying computers (10 marks)
- c) List and explain five differentiating factors among the computer generations (5 marks)