



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 WOMEN'S UNIVERSITY OF SCIENCE AND TECHNOLOGY
UNIVERSITY EXAMINATION, 2023/2024 ACADEMIC YEAR
END SEMESTER EXAMINATION
FOR THE DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY
(SPECIALS)
DCU 1007 – ICT AND ETHICS

Date: 20TH APRIL, 2023
Time: 4:00PM- 6:00PM

INSTRUCTIONS TO CANDIDATES

ANSWER QUESTION ONE (COMPULSORY) AND ANY OTHER TWO QUESTIONS

QUESTION ONE (30 MARKS)

- a) Define the following terms used in computer systems **(6 Marks)**
- i) Computer System
 - ii) Application software
 - iii) Operation system
- b) Explain Four major characteristics of a computer system **(8 Marks)**
- c) Differentiate between the following terms **(4 Marks)**
- i) Registers and System software
 - ii) Analogue computer and Digital computer
- d) Discuss the causes of failure of distributed operating systems **(5 Marks)**
- e) Operating system is a part critical component of the computer system. Discuss the functions it serves in in the computer **(7 Marks)**

QUESTION TWO (20 MARKS)

- a) ICT is an integral part in today's business operations and transactions. Describe the major effects that ICT has played in the different sectors of the economy with relevant examples **(10 Marks)**
- b) Differentiate single user and multi user **(4 Marks)**
- c) Outline the basic issues that differentiate ethics and law **(6 Marks)**

QUESTION THREE (20 MARKS)

- a) Write short notes about the following: **(9 Marks)**
- i) Bath operating systems
 - ii) Distributed operating systems
 - iii) Real time operating Systems
- b) Explain the following model-driven methods **(6 Marks)**
- i) Cathode ray tube monitor
 - ii) Flat panel display monitor
- c) Define security threats and expound on theft as a major security threat **(5 Marks)**

QUESTION FOUR (20 MARKS)

- a) Briefly explain the printer as an output device giving advantage and one disadvantage (6 Marks)
- b) Differentiate between supercomputers and mainframe computers (4 Marks)
- c) Various modes of data transmission are used in networks. Discuss the three major modes (6 marks)
- d) Networks are basically critical and play vital roles in today's business operations. Expound on some of the reasons why they are needed (4 Marks)

QUESTION FIVE (20 MARKS)

- a) Computers have brought more good than harm. Support this statement with relevant examples (8 Marks)
- b) Networking involves communication among computer devices. What networking topologies help in facilitating communication? (6 Marks)
- c) Distinguish the following: (6 Marks)
 - i) Data backup and Cryptography
 - ii) Primary and Secondary storage devices