



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE

DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY

(DIT MOD I)

END OF SEMESTER EXAMINATIONS

APRIL/MAY 2010 SERIES

INTRODUCTION TO ICT

TIME: 2 hours

INSTRUCTIONS TO CANDIDATES:

This paper consists of **FIVE** questions.

Answer Question **ONE** and any other **TWO** Questions.

SECTION A

Question ONE

- (a). Define the following terms:
- (i). Information
 - (ii). Communication
 - (iii). Technology
- (6 marks)**
- (b). Briefly explain the type of digital computers. **(14 Marks)**
- (c). Information Communication Technology (ICT) is categorized into two broad groups, briefly explain these groups giving examples for each. **(10 Marks)**

SECTION B

Question TWO

- (a). Define the term “digital”. **(2 marks)**
- (b). What do 1's and 0's represent in computer operation? **(2 Marks)**
- (c). Explain the function of the following devices;
- (i). Input/output devices
 - (ii). Arithmetic and Logic Unit (ALU)
 - (iii) Control Unit (CU)
 - (iv). Optical disks
 - (v). System board
- (10 Marks)**
- (d). Describe any **THREE** components required to connect to the internet. **(6 Marks)**

Question THREE

- (a). Explain the main difference of the following memories:
- (i). Primary storage and Secondary storage
 - (ii). Random Access Memory (RAM) and Read Only Memory. **(4 Marks)**
- (b). Explain the term “ergonomics” as used in computers. **(2 Marks)**
- (c). Explain any five issues that have arisen from the adaptation to ICT. **(10 Marks)**
- (d). Convert the following decimal numbers to their binary equivalent:

- (i). 127
- (ii). 49

(4 Marks)

Question FOUR

Discuss **FIVE** aspects that can be termed as Ethical in ICT.

(20 Marks)

Question FIVE

Discuss any **FIVE** trends of ICT Applications.

(20 Marks)