



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of Jkuat)

Faculty of Engineering and Technology

**DEPARTMENT OF COMPUTER SCIENCE & INFORMATION
TECHNOLOGY**

**DIPLOMA IN INFORMATION & COMMUNICATION TECHNOLOGY
DICT 2K 11M**

EIT 2104: INTRODUCTION TO ICT

END OF SEMESTER EXAMINATIONS

SERIES: AUGUST/SEPTEMBER 2011

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer booklet*

Answer question **ONE (COMPULSORY)** and any other **TWO** questions

This paper consists of **THREE** printed pages

SECTION A

Question 1 (Compulsory)

- a) Explain the following terms:
- i) Computer
 - ii) Software
 - iii) System software
 - iv) Application software
 - v) Program
- (10 marks)
- b) State any **FOUR** advantages of computers (4 marks)
- c) State **FOUR** qualities of a good computer storage system (4 marks)
- d) List any **FOUR** computer application programs (4 marks)
- e) Explain the use of following application packages
- i) Word processing
 - ii) Spreadsheet processing
 - iii) Internet
- (6 marks)
- f) State any **FOUR** limitations of computers (2 marks)

SECTION B (Answer any TWO questions (40 marks))

Question 2

- a) Explain on the six element of the computer hardware (6 marks)
- b) Draw the block structure of the computer hardware (6 marks)
- c) Explain on the following input devices:
- i) Scanner
 - ii) Bar code reader
- (4 marks)
- d) Describe the following output devices
- i) Printer
 - ii) Monitor
- (4 marks)

Question 3

- a) Define the term ‘operating system’ (2 marks)
- b) Explain **FOUR** functions of an operating system (8 marks)
- c) Explain any **FIVE** characteristics of the modern computer (10 marks)

Question 4

- a) Explain the **FIVE** major functions of any operating system (10 marks)
- b) Explain the major differences in the following generations of computers (10 marks)
 - i) 1st Generation Computers
 - ii) 2nd Generation Computers
 - iii) 3rd Generation Computers
 - iv) 4th Generation Computers
 - v) 5th Generation Computers

Question 5

- a) Define the term Application Software (2 marks)
- b) Explain any **FOUR** advantage of application packages (8 marks)
- c) State and explain any **TWO** types of printers (4 marks)
- d) Explain any **THREE** factors to consider before buying a new computer (6 marks)