



# 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 (2 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 **TWO** 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) 1<sup>st</sup> Generation Computers

ii) 2<sup>nd</sup> Generation Computers

iii) 3<sup>rd</sup> Generation Computers

iv) 4<sup>th</sup> Generation Computers

v) 5<sup>th</sup> 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)