



TECHNICAL UNIVERISTY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

UNIVERSITY EXAMINATION FOR:
BACHELOR OF SCIENCE IN COMMUNITY HEALTH

EIT 4101: INTRODUCTION TO COMPUTER TECHNOLOGY

END OF SEMESTER EXAMINATION

SERIES: AUGUST 2013

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer Booklet*

This paper consists of **FIVE** questions. Attempt question **ONE** and any other **TWO** questions

Maximum marks for each part of a question are as shown

This paper consists of **TWO** printed pages

Question One (Compulsory)

a) Define the following terms as used in computers:

- (i) Computer
- (ii) Data
- (iii) Hardware
- (iv) Software

(8 marks)

b) Name and explain how computers are classified.

(6 marks)

c) Define the term CPU and explain the components of a CPU

(6 marks)

d) Distinguish between the following terms as used in memory giving an example in each case.

(4 marks)

- (i) Volatile memory
- (ii) Non-volatile memory

- e) Describe any **THREE** major features of the second generation computers. (6 marks)

Question Two

- a) Define the following terms as used in computers (2 marks)
- (i) BIT
 - (ii) BYTE
- b) Convert the following chemical numbers into binary number (express your answers in bytes) (4 marks)
- (i) 255
 - (ii) 198
- c) Convert the following binary numbers into decimal equivalent (4 marks)
- (i) 00110110_2
 - (ii) 00010010_2
- d) Define and explain the following terms as used in memory. (6 marks)
- (i) RAM
 - (ii) ROM
 - (iii) PROM
- e) Differentiate between the following terms as concerning memory in computer. (4 marks)
- (i) Primary memory
 - (ii) Secondary memory

Question Three

- a) Define the term Bus in the context of computers. (2 marks)
- b) Describe the **THREE** types of computer buses as used in computer systems. (6 marks)
- c) The processor performs **THREE** basic functions, name, and explain these functions giving an example of each. (6 marks)
- d) Define giving examples the **THREE** types of computers. (6 marks)

Question Four

- a) Define a computer system giving its main components (8 marks)
- b) State and explain any **FOUR** features that you would consider while purchasing a new computer for an office (6 marks)
- c) List and define the **TWO** types of software programs giving an example of each. (6 marks)

Question Five

- a) State any **TWO** characteristics of a computers (2 marks)
- b) Describe any **FOUR** roles of computers in our society. (8 marks)
- c) Mary wants to change margins of her first page document explain to her step by step how to execute her task (4 marks)

d) Outline the steps involved in inserting and deleting a row

(6 marks)