



TECHNICAL UNIVERISTRY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

UNIVERSITY EXAMINATION FOR DEGREE IN:
BACHELOR OF SCIENCE IN CIVIL ENGINEERING (BSCE 3 & 3E)

SMA 2174: INTRODUCTION TO COMPTUER SCIENCE

SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: FEBRUARY 2015

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 (Compulsory)** 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) What do the following abbreviations stand for? **(2 marks)**
- (i) ICT
 - (ii) RAM
 - (iii) CPU
 - (iv) ALU
- b) Define the following terms as used in ICT **(5 marks)**
- (i) Computer
 - (ii) Information
 - (iii) Modem
 - (iv) Data
 - (v) Software
- c) State FIVE functions of the operating system **(5 marks)**
- d) List THREE types of software. **(3 marks)**
- e) Differentiate between the following: **(4 marks)**
- (i) Compiler and interpreter

(ii) Hardware and software

- f) State FIVE classes of computers when classified by physical size **(5 marks)**
- g) State any THREE output devices you know **(3 marks)**
- h) What is meant by IPD cycle, explain. **(3 marks)**

Question Two

Describe the evolution of computers from the early days to date **(20 marks)**

Question Three

- a) Describe FIVE input devices that you know **(10 marks)**
- b) Cite FIVE areas and explain how computers are used **(10 marks)**

Question Four

- a) Explain FIVE components of a window **(10 marks)**
- b) Using a block diagram, explain the functioning of the CPU **(10 marks)**

Question Five

- a) Explain the different types of programming languages **(10 marks)**
- b) What is primary storage, explain the different types **(10 marks)**