



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 COMPTUERS

END OF SEMESTER EXAMINATION
SERIES: DECEMBER 2014
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) Describe the **FOUR** qualities of a computer. **(4 marks)**
- b) Explain any **FOUR** disadvantages of computers in the society today. **(4marks)**
- c) Describe any **FOUR** effects of viruses to the computer. **(4 marks)**
- d) Discuss the categories of computers under the following:
- Generations
- Size and cost **(10 marks)**

e) Discuss any FOUR features of word processors (8 marks)

Question Two

a) Draw the functional elements of a computer. (2 marks)

b) Describe the elements in the diagram in 2(a) above (8 marks)

c) Discuss the qualities of Read Only Memory (ROM) (4 marks)

d) Discuss the following features of spreadsheets:
(i) Automatic recalculation
(ii) Real time update
(iii) Functions (6 marks)

Question Three

a) Define the following terms:
(i) Internet
(ii) WWW
(iii) Network (6 marks)

b) Briefly describe the origin of the internet (4 marks)

c) Describe any FIVE services offered by the internet (10 marks)

Question Four

a) Describe while giving examples, the following categories of programming languages:
(i) Object oriented programming languages
(ii) Structured programming languages (6 marks)

b) Describe the difference between object code and source code (2 marks)

c) Explain any FIVE factors that may determine the choice of a programming language (5 marks)

d) Discuss advantages and disadvantages of:
(i) High level languages
(ii) Low level languages (7 marks)

Question Five

a) Explain the FIVE functions of an operating system (10 marks)

b) Explain the following features of the WINDOWS Operating System (5 marks)
(i) Option buttons
(ii) Command buttons
(iii) Text boxes
(iv) Check boxes
(v) Tab sheet

c) Explain any THREE Internal commands of the DOS and any TWO external commands (5 marks)