TECHNICAL UNIVERISTY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

CERTIFICATE IN INFORMATION TECHNOLOGY & MAINTENANCE
(CICM 14J)

EIT 1104: FUNDAMENTALS OF ICT

END OF SEMESTER EXAMINATION
SERIES: APRIL 2014
TIME: 2 HOURS

<u>**Instructions to Candidates:**</u>
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 term "computer laboratory" **(2 marks)**

b) Give TWO factors to be considered when preparing a computer laboratory. **(2 marks)**

c) List down THREE safety precautions one should observe when entering a computer laboratory.
(3 marks)

d) Describe the ideal environment for a computer to work properly. **(3 marks)**

e) Explain why smoke particles are harmful to a computer. **(3 marks)**

f) List and explain the major characteristics of a computer. **(7 marks)**

Question Two

a) Briefly explain the term booting. **(2 marks)**

b) Give and explain TWO types of booting. **(6 marks)**

c) Define a computer keyboard. **(2 marks)**

d) List FOUR types of keys found on a computer keyboard giving an example of each.
(4 marks)

e) List and explain THREE functional elements of a computer system. **(6 marks)**

Question Three

a) Define a computer input device. **(2 marks)**

b) List and explain FOUR input devices. **(8 marks)**

c) Describe the THREE functions performed by the CPU **(3 marks)**

d) Distinguish between primary and secondary storage. **(2 marks)**

e) List FIVE devices located under the cover of the system unit. **(5 marks)**

Question Four

a) Briefly explain the classification of computer according to historical development (generations)
(8 marks)

b) List and explain the FOUR type of computers **((8 marks)**

c) List and explain the elements of a computer. **(6 marks)**

Question Five

a) Identify FIVE areas where computers are used to process data. **(10 marks)**

b) Describe THREE functions performed by the CPU. **(3 marks)**

c) State FOUR functions of Read-Only Memory (ROM)   **(4 marks)**

d) Give THREE characteristics of ROM   **(3 marks)**