TECHNICAL UNIVERISTY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

CERTIFICATE IN COMPUTER & MAINTENANCE
(CICM)

UKUNDA CAMPUS

EIT 1102: FUNDAMENTALS OF COMPUTERS & OPERATING SYSTEMS

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 **THREE** printed pages

Question One (Compulsory)

a) Describe the functions of the devices below.   **(6 marks)**
    (i)   CPU
    (ii)   Memory
    (iii)   Hard disk

b) Describe **FIVE** functions of an operating system.   **(10 marks)**

c) List the drawbacks of the first generation computers.   **(4 marks)**

d) Explain **FIVE** types of operating system.   **(10 marks)**

Question Two

a) Describe the fourth generation computer based on:
    (i)   Hardware
    (ii)   Software
    (iii)   Computing characteristics
    (iv)   Physical appearance
    (v)   Their applications   **(15 marks)**

b) Give **TWO** examples of fourth generation computers.   **(2 marks)**

c) List the drawbacks of the fourth generation computers.   **(3 marks)**

Question Three

a) Give the means of: **(2 marks)**
    (i)   GUI
    (ii)   XP

b) List **THREE** significant limitations of a computer.   **(3 marks)**

c) Describe **TWO** types of operating systems based on interface giving an example for earth.
                                                                           (4 marks)
d) Explain **THREE** advantages of flash memory storage.   **(6 marks)**

e) Define microcomputer.   **(1 mark)**

f) Give **TWO** examples of microcomputer.   **(2 marks)**

g) Stage **TWO** devices that can be used to audio input to a computer.   **(2 marks)**

Question Four

a) Explain **THREE** advantages of flash memory storage.   **(6 marks)**

b) Give **TWO** examples of impact printers.   **(2 marks)**
c) Discuss computer hardware under the following supplies.   **(12 marks)**
    (i)   Input devices

(ii) Output devices
(iii) Storage devices
(iv) Processor

Question Five

Convert the following storage to the particular measurement: **(20 marks)**

(i) 1GB MB
(ii) 1024KB Bytes
(iii) 2GB KB
(iv) 1024MB GB
(v) 10GB MB
(vi) 2000KB MB
(vii) 2MB KB
(viii) 4800MB GB
(ix) 6MB Bytes
(x) 100GB MB