THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of JKUAT)

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

PRE-CERTIFICATE IN INFORMATION TECHNOLOGY (PCIT/JAN2012)

EIT 1122: FUNDAMENTALS OF COMPUTERS & OPERATING SYSTEMS

END OF SEMESTER EXAMIANTION

SERIES: APRIL 2012
TIME: 2 HOURS

Instructions to Candidates:
You should have the following for this examination
- *Answer Booklet*

This paper consists of **FIVE** questions in **TWO** sections **A & B**
Answer question **ONE (COMPULSORY)** plus any other **TWO** questions
Maximum marks for each part of a question are as shown
This paper consists of **THREE** printed pages

SECTION A (COMPULSORY)

Question One (30 Marks)

a) Define a computer
b) Define computer software and explain the classification of software   (6 marks)
c) Computer memory is classified into two, describe the **TWO** classification (4 marks)
d) Highlight the Uses of Output Units   (3 marks)
e) Write short notes of the following:-   (6 marks)
   (i)   Graphics Tablets
   (ii)   Plotter
   (iii)   Terminal

SECTION B (Attempt any TWO sections)

Question Two (20 marks)

a) You are an IT Specialist in a busy IT Consultant Company; explain factors that you will advice the user to pay attention before buying a particular hardware.   (10 marks)

b) Mouse is pointing device that is widely used, explain the various uses of the mouse as an input device   (3 marks)

c) Outline functions of an operating system   (5 marks)

d) How can you open the dialog box which you change the date and time of the computer
        (2 marks)

Question Three (20 marks)

a) Write short notes on the following input devices   (10 marks)
   (i)   Optical Mark Reader (OMR):
   (ii)   Touch Screen
   (iii)   Magnetic Ink Character Recognition (MICR)
   (iv)   Digital Cameras
   (v)   Optical Character Recognition (OCR)

b) Explain the **TWO** broad types of Operating Systems   (10 marks)

Question Four (20 marks)

a) What are the main characteristics of storage media   (12 marks)

b) Secondary Storage devices are said to supplement primary storage, highlight other three uses of secondary storage   (3 marks)

c) Write short notes of the following storage media   (5 marks)
   (i)   Floppy Disk
   (ii)   Hard Disk

Question Five (20 marks)

a) With an Aid of a diagram explain functions of computer system touching on Input, processing storage and output giving example in each case   (12 marks)

b) Explain **THREE** types of Optical disks   (6 marks)

c) Write down the procedure followed to cut and paste a document from one drive to another   (2 marks)