THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of Jkuat)

Faculty of Engineering and Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION
TECHNOLOGY

CERTIFICATE IN COMPUTER MAINTENANCE & NETWORK TECHNOLOGY (CMNT 2K 11M)

ECT 1105: OPERATING SYSTEMS

END OF SEMESTER EXAMINATIONS

SERIES: AUGUST/SEPTEMBER 2011

TIME: 2 HOURS

Instructions to Candidates:
This paper consist of **TWO** sections **A** and **B**
Answer question **ONE (COMPULSORY)** and any other **TWO** questions from the list below
This paper consists of **THREE** printed pages
SECTION A COMPULSORY (30 MARKS)

Question 1

a) List and explain the **FIVE** core functions of an operating system   (5 marks)

b) Explain the following terms.
   (i)   Desktop
   (ii)   Folders
   (iii)   Icons
   (iv)   User interface
   (v)   File   (5 marks)

c) List **THREE** hardware components   (3 marks)

d) Explain the **TWO** ways of how you would Log Off the network   (6 marks)

e) Name **THREE** input devices   (3 marks)

f) What is MS-DOS   (2 marks)

g) Define RAM and ROM memories   (4 marks)

h) Differentiate hardware and software   (2 marks)

SECTION B (ANSWER ANY TWO QUESTIONS)

This section consists of FOUR questions 20 marks each.
Choose any two questions

Question 2 (20 marks)

a) Explain the following DOS commands

   (i)   Md
   (ii)   Cd
   (iii)   Ren
   (iv)   Dir
   (v)   Del   (10 marks)

b) Explain with examples what the external and internal commands are in DOS   (4 marks)

c) Define what is meant by the term "Root Directory: (2 marks)

d) Explain how the OS will act as a bridge between the system user and the computer hardware   (4 marks)

Question 3 (20 marks)

a) Define the term "Booting"   (2 marks)

b) Explain the following terms
   (i)   Hard reboot
   (ii)   Soft reboot
   (iii)   Random reboot

(iv)   Rebooting automatically
        (v)   Safe mode   (10 marks)

c) List **FIVE** advantages of using computerized systems   (5 marks)

d) Explain how you would Log Off the network and Turn off the computer   (3 marks)

Question 4 (20 marks)

a) Define the following common primary boot loaders

        (i)   BIOS
        (ii)   EFI
        (iii)   OpenBIOS
        (iv)   OpenBoot
        (v)   SLOF   (5 marks)

b) Explain the following features as found in the control panel in Windows XP function:

        (i)   User accounts
        (ii)   Keyboard
        (iii)   Internet options   (3 marks)

c) How would you create a new folder in windows   (5 marks)

d) Name any **FIVE** bars found in windows   (5 marks)

e) Name the type of mices you know   (2 marks)

Question 5 (20 marks)

a) What is GUI   (2 marks)

b) State the **SIX** basic features found in GUI   (6 marks)

c) What is the term "QWERTY" associated with   (2 marks)

d) List **FOUR** output devices   (4 marks)

e) What is computer virus   (2 marks)

f) Define the following terms as used in windows:

        (i)   CUT
        (ii)   COPY
        (iii)   PASTE
        (iv)   BOLD   (4 marks)