



# 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  
CMNT2K 11M**

**ECT 1105: OPERATING SYSTEMS**

**SPECIAL/SUPPLEMENTARY EXAMINATION**

**SERIES: OCTOBER 2011**

**TIME: 2 HOURS**

**Instructions to Candidates:**

You should have the following for this examination

- *Answer booklet*

Answer question **ONE (COMPULSORY)** in section A and any other **TWO** questions from section B

Maximum marks for each part of a question are clearly shown.

This paper consists of **THREE** printed pages

### Question 1 – Compulsory (30 marks)

- a) List and explain the five core functions of an operating system (5mks)
- b) Explain the following terms;
- i) Desktop
  - ii) Folders
  - iii) Icons
  - iv) User interface
  - v) File (5mks)
- c) List **THREE** hardware components (3mks)
- d) Explain the two ways of how you would Log Off the network (6mks)
- e) Name three input devices (3mks)
- f) What is MS-DOS (2mks)
- g) Define RAM and ROM memories (4mks)
- h) Differentiate hardware and software (2mks)

### Question 2 (20 marks)

- a) Explain the following DOS commands;
- i) md
  - ii) cd
  - iii) ren
  - iv) dir
  - v) del (10mks)
- b) Explain with examples what the external and internal commands are in DOS (4mks)
- c) Define what is meant by the term “Root Directory” (2mks)
- d) Explain how the OS will act as a bridge between the system user and the computer hardware (4mks)

### Question 3 (20 marks)

- a) Define the term “Booting” (2mks)
- b) Explain the following terms
- i) Hard reboot
  - ii) Soft reboot
  - iii) Random reboot
  - iv) Rebooting automatically

- v) Safe mode (10mks)
- c) List five advantages of using computerized systems (5mks)
- d) Explain how you would Log Off the network & Turn off the computer (3mks)

**Question 4 (20 marks)**

- a) Define the following common primary boot loaders;  
i. BIOS  
ii. EFI  
iii. openBIOS  
iv. openBoot  
v. SLOF (5mks)
- b) Explain the following features as found in the control panel in Windows XP function;  
i) User accounts  
ii) Keyboard  
iii) Internet options (3mks)
- c) How would you create a new folder in windows (5mks)
- d) Name any **FIVE** bars found in windows (5mks)
- e) Name the type of mices you know (2mks)

**Question 5 (20 marks)**

- a) What is GUI (2mks)
- b) State the six basic features found in GUI (6mks)
- c) What is the term “QWERTY” associated with (2mks)
- d) List 4 output devices (4mks)
- e) What is computer virus (2mks)
- f) Define the following terms as used in windows;  
(i) CUT  
(ii) COPY  
(iii) PASTE  
(iv) BOLD (4mks)