



# THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of JKUAT)

*Faculty of Engineering & Technology*

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN INFORMATION TECHNOLOGY (DIT 2K – 12J)

**EIT 2103: COMPUTER WORKSHOP PRACTICE**

END OF SEMESTER EXAMINATION

**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 **TWO** printed pages

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## **SECTION A (COMPULSORY)**

### **Question One (30 Marks)**

- State and explain **FOUR** factors to be considered when disposing computer equipments (8 marks)
- Explain any **TWO** methods of disposing computer equipments (4 marks)
- Explain why unnecessary movement is not allowed in the computer lab (2 marks)
- State and explain **TWO** main functions of a UPS (4 marks)
- Explain the meaning of the following terms: (4 marks)
  - Power surge
  - Jumper
- Safely rules learned in the computer lab can be applied to the home environment to make home computer use safer for the entire family. These rules are categorized with regard to activity. Highlight **TWO** rules in each of the following categories: (8 marks)
  - Dust/Dump Control
  - Ventilation and Lighting
  - Equipment Safety
  - Safe Lab Layout Design

## **SECTION B (Attempt any TWO sections)**

### Question Two (20 marks)

- a) Differentiate between the following terms as used in computer security: (16 marks)
- (i) Confidentiality and integrity
  - (ii) Authentication and authorization
  - (iii) Firewall and Encryption
  - (iv) Biometrics and Network authentication
- b) State and explain any **TWO** methods of procuring a computer (4 marks)

### Question Three (20 marks)

- a) State and explain any **THREE** types of active attacks (6 marks)
- b) Name and explain any **FOUR** basic categories of viruses (8 marks)
- c) Explain in details how someone will get “mspaint.exe” or “notepad.exe” file, back after it has been accidentally deleted. (6 marks)

### Question Four (20 marks)

- a) Assuming that you are working as a Director of ICT at Mombasa Polytechnic University College, briefly describe the procedure that you will take when procuring a computer for a new employee in your department (10 marks)
- b) State and explain **FIVE** security measures that can be implemented to prevent unauthorized access to sensitive information or system resources in a defined structure. (10 marks)

### Question Five (20 marks)

The following are the most common computer problems. Highlight a technical solution(s) to one of them. (20 marks)

- (i) When I restart my PC, I get an error message: “Windows\System32\config\system” file missing or corrupt.
- (ii) A message pops up saying up “have run out of disk space on your computer”
- (iii) My computer spontaneously reboots itself or turns off
- (iv) The screen comes on OK when booting but gets unreadable when in Windows
- (v) The performance of my computer has slowed.