



TECHNICAL UNIVERISTRY OF MOMBASA

# Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY  
(DICT 14S – Y1 S1)

**ECS 2102: COMPUTER WORKSHOP PRACTICE**

END OF SEMESTER EXAMINATION

**SERIES: DECEMBER 2014**

**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 (Compulsory)** 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)

Differentiate the following computing terms giving an example for each cases:

- a) Computer Hardware and Softwares
- b) HDMI Ports and Network Interface Port
- c) Random Access Memory and Read Only Memory
- d) Harddisk Formatting and Partitioning
- e) Graphical User Interface and Textual User Interface **(20 marks)**

### Question Two

- a) Discuss FIVE control measure for logical security and physical security. **(6 marks)**
- b) Explain the meaning of computer workshop giving the general guideline. **(6 marks)**
- c) Discuss the term computer Ergonomics and list FIVE application in computing. **(8 marks)**

### Question Three

- a) Explain briefly what is Electrostatic Charge in computer workshop and list three ways of avoiding the remedies it causes to electronic components. **(6 marks)**
- b) Explain precautions should take when handling the following computer components:
  - (i) When opening computer casing
  - (ii) Handling monitor ups
  - (iii) Replacing computer processor and RAM
  - (iv) Cleaning computer motherboard
  - (v) Handling optical drive **(10 marks)**
- c) Name THREE basic types of printers. **(4 marks)**

### Question Four

- a) Briefly state FIVE fire safety guideline of handling fire. **(5 marks)**
- b) Explain the FOUR categories of fire extinguishers. **(5 marks)**
- c) Define the following security terms giving an example in each case:
  - (i) Computer security
  - (ii) Network security
  - (iii) Internet security
  - (iv) Vulnerabilities
  - (v) Threats **(10 marks)**

### Question Five

Mr Juma purchased a new PC for office use with the following specification:

- Hard disk 40GB, 12AM capacity
- 1.8 GHz/processor, - User mouse and keyboard
- Fully multimedia system

Required:

- a) Identify computer components which need upgrading and explain upgrading process. **(10 marks)**
- b) How much memory and processor capacity of the computers. **(3 marks)**
- c) Explain the function of the following components:
  - (i) HDMI ports
  - (ii) Fully Multimedia System
  - (iii) 12 Memory Capacity
  - (iv) 128 Memory Capacity
  - (v) 1.8 GHz Cpu Intel **(7 marks)**