



TECHNICAL UNIVERISTRY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY
(DICT 14M/S-EV – Y1 S1)

ECS 2102: WORKSHOP PRACTICE

END OF SEMESTER EXAMINATION

SERIES: AUGUST 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 **TWO** printed pages

Question One (Compulsory)

Differentiate the following terms giving an example:

- a) Computer Hardware and Software
- b) Operating System and Application Programmes
- c) Hard disk formatting and partitioning
- d) Graphical user interface and Textualize interface **(20 marks)**

Question Two

- a) What is the meaning of computer workshop. Explain **(5 marks)**
- b) Giving practical examples, state FIVE general rules of computer workshop. **(5 marks)**
- c) The performance of a computer system is slow. Find a solution and explain how. **(10 marks)**

Question Three

- a) Describe the processes that the computer passes through during boot up process. **(4 marks)**
- b) Define the term disc fragmentation and name the factors that cause it. **(4 marks)**
- c) Give FIVE control mechanisms for each of the following security. **(4 mark)**
 - (i) Physical security
 - (ii) Logical security **(4 marks)**
- d) What is a virus? Explain and list how virus affects computer performance. **(4 marks)**

Question Four

- a) What is E-waste management? Explain. **(4 marks)**
- b) Discuss the key factors to consider when purchasing and disposing e-waste. **(10 marks)**
- c) Discuss ways of disposing E-waste in a modern computer workshop. **(6 marks)**

Question Five

Mr. Musyimi purchased a new PC from for office use with the following specifications;

- 500 GB Harddisk
 - 3.2GHZ Intel Pentium CPU
 - 1024 MIS RAM
 - Ergonomically designed optical mouse/keyboard
 - Psz, USB, Parallel, serial and HDMI ports
 - Fully multimedia system required:
- a) For better performance identify components which need upgrading and explain the process. **(10 marks)**
 - b) Which components are connected to PS2 list them. **(4 marks)**
 - c) Explain the function of the following:
 - (i) HDMI port

- (ii) Fully multimedia system
- (iii) 3.2 GHZ CPU Intel
- (iv) 1024 MIS Memory

(6 marks)