



TECHNICAL UNIVERISTY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY
(DICT)

ECS 2105: WORKSHOP PRACTICE TECHNOLOGY

END OF SEMESTER EXAMINATION

SERIES: DECEMBER 2013

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** 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)

- a) What is the meaning of computer workshop? **(2 marks)**
- b) Name at least FIVE general Rules of a workshop? **(5 marks)**
- c) Explain Power Management and Static Surge Protectors and list FIVE ways of prevention **(5 marks)**
- d) What is Electrostatic Discharge CESD, explain FIVE ways of preventing its remedies. **(8 marks)**

Question Two

- a) State and explain at least FIVE factor to consider when selecting a UPS **(10 marks)**
- b) What precautions should one take when handling the following computer equipments **(10 marks)**
 - (i) When opening computer casing
 - (ii) When opening monitor
 - (iii) When handling hazardous substance (ups battery, tonners)
 - (iv) Cleaning Computer mother board
 - (v) Working on optical drive

Question Three

- a) Give FIVE control measures each for logical security and physical security. **(10 marks)**
- b) What is ergonomics and explain how is applied in computer workshops **(10 marks)**

Question Four

- a) Define the following terms and give an application in each case **(5 marks)**
 - (i) ROM
 - (ii) ALU
 - (iii) CU
 - (iv) VGA
 - (v) RAM
- b) Explain FIVE safety guidelines and classes of five extinguishers **(10 marks)**
- c) List FIVE mechanisms of fire safety measure for preventing fire and protect yourself **(5 marks)**

Question Five

- a) What do you understand by E-waste **(3 marks)**
- b) Briefly list FIVE factors to consider before disposal **(7 marks)**
- c) Briefly explain FIVE methods of safety disposal **(10 marks)**