THE TECHNICAL UNIVERISTY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY
(DICT M13)

ECS 2102: COMPUTER WORKSHOP PRACTICE

END OF SEMESTER EXAMINATION
SERIES: AUGUST 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 **THREE** printed pages

Question One (Compulsory)

a) Briefly explain what is Electrostatic Charge (ESD) and name **FIVE** ways of preventing (ESD)

b) A.C power fluctuation can cause data loss and hardware failure, explain the following fluctuation and ways of prevention

c) Name in each category **FIVE** devices input device, output and storage devices

d) The performance of any computer has slowed, find a solution and explain how to upgrade

Question Two

a) Discuss the following components of the computer and their importance in execution:
    (i)   RAM
    (ii)   Processor
    (iii)   ALU
    (iv)   Main memory
    (v)   Input (instruction)
    (vi)   Outputs

b) State any **TWO** safety rules in a computer lab/workshop considering the following:
    (i)   Equipment handling
    (ii)   Lab layout
    (iii)   Furniture

c) Computer lab/workshops premises need a fire extinguisher installed with. Explain FIVE fire safety guidelines

d) Explain giving example the classification of fire extinguisher

Question Three

a) What is the meaning of workshop/computer lab

b) Giving practical examples, state **FIVE** general rules of a computer workshop.

c) What is ergonomics and explain how it is applied in computer workshop

Question Four

a) What precaution should one take when handling the following computer equipments
    (i)   When opening computer casing
    (ii)   When opening monitors
    (iii)   Replacing computer processor and RAM
    (iv)   Cleaning computer mother board
    (v)   Working on optical drive CP/PVO com

b) List **SIX** internal components and discuss their uses and **SIX** communication parts and their uses.

c) Name and explain the use of any **SIX** peripheral attached to the computer.

Question Five

a) Name **THREE** basic types of printers

b) Discuss the key factors to consider before disposal of any ICT equipment

c) Discuss **FIVE** method of healthy disposal of ICT equipments.

d) What do you understand by the following types of security:
    (i) Digital signature
    (ii) Proxy server
    (iii) Fire ware
    (iv) Encryption & decryption
    (v) Biometric