



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of Jkuat)

Faculty of Engineering and Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

DIPLOMA IN INFORMATION COMMUNICATION
TECHNOLOGY – DICT10A
(YR 1SEM 2)

ECT 2105: COMPUTER LABORATORY PRACTICE

END OF SEMESTER EXAMINATIONS

SERIES: AUGUST/SEPTEMBER 2011

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer booklet*

Answer question **ONE (COMPULSORY)** and any other **TWO** questions

This paper consists of **THREE** printed pages

SECTION A – 30 MARKS

Question 1 (Compulsory)

- a) Explain the following terms
- i) POST
 - ii) Warm booting
 - iii) Cold booting
 - iv) Operating system (8 marks)
- b) Explain **FOUR** things that you should do before beginning any activity in the lab (8 marks)
- c) State **TWO** uses of the PC casing in a Desk top computer (2 marks)
- d) Explain the purpose of the power supply unit in typical PC (2 marks)
- e) State any **TWO** ways in which cooling is achieved in a typical PC (2 marks)
- f) State **EIGHT** general Safety Precautions in the Computer Lab (8 marks)

SECTION B (Answer any two questions – 40 marks)

Question 2

Explain the **FIVE** factors influencing computer Lab Design (20 marks)

Question 3

Explain the Safety in the Computer Lab with regards to:

- a) Protecting yourself (10 marks)
- b) Protecting the equipments (10 marks)

Question 4

- a) Explain the following security threats
- i) Phishing
 - ii) Zombies
 - iii) Worms
 - iv) Denial of service (DoS)
 - v) Hackers (10 marks)
- b) List **FIVE** logical security measures and **FIVE** physical security measures that can be taken to security computer system and data (10 marks)

Question 5

- a) Explain the term “Expansion Slot” found on Motherboard (2 marks)
- b) Identify the **FOUR** types of expansion slots (4 marks)
- c) Describe the purpose of each type of expansion slots identified in Q(b) above. (8 marks)
- d) Describe the precaution you would take to keep computers virus free in a busy computer laboratory that is used by many users (6 marks)