



# **THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE**

(A Constituent College of JKUAT)

*Faculty of Engineering & Technology*

**DEPARTMENT COMPUTER SCIENCE & INFORMATION TECHNOLOGY**

**HIGHER DIPLOMA IN INFORMATION COMMUNICATION TECHNOLOGY  
HDIP 10A**

**ECT 3107: ICT ETHICS**

**END OF SEMESTER EXAMINATIONS**

**SERIES: DECEMBER 2011**

**TIME: 2 HOURS**

**Instructions to Candidates:**

You should have the following for this examination

- *Answer Booklet*

This paper consist of **FIVE** questions in **TWO** sections **A & B**

Answer 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

## SECTION A (COMPULSORY)

### QUESTION 1 (30 MARKS)

- a) Outline the characteristics of computers and state the result of each characteristic. (3 marks)
- b) Explain **FIVE** areas where Benefits of computers have been realized (5 marks)
- c) One of the problems of Computer use is security, Explain why Security of information technology is of utmost importance. (3 marks)
- d) Explain the types of attacks most frequent on a networked computer from an outside source. (4 marks)
- e) Outline a classification of the perpetrators of computer crime. (3 marks)
- f) State the methods used for prevention of computer crime. (3 marks)
- g) Outline the **TEN** Commandments of computer ethics (5 marks)
- h) Explain the term Encryption. (4 marks)

## SECTION B (ANSWER ANY TWO QUESTIONS)

### QUESTION TWO (20 Marks)

- a)
  - i. Explain the term Privacy in relation to data. (2 marks)
  - ii. Explain the **Four** dimensions of privacy (6 marks)
- b)
  - i. Explain the **four** levels of threats to privacy (6 marks)
  - ii. Describe the Technical Privacy Control (6 marks)

### QUESTION THREE (20 Marks)

- a)
  - i. Outline any **FOUR** real world technologies that intrude to privacy
  - ii. Describe each of the technologies mentioned in a.i. above. (10 marks)
- b) Describe Privacy Intrusion in Cyberspace through:
  - i. Clickstream Data Analysis
  - ii. Cookies
  - iii. Pharming
  - iv. Phishing
  - v. Voice Over Internet Protocols (VoIPs) (10 marks)

### QUESTION FOUR (20 Marks)

- a) Explain the term 'The Right of Privacy' (4 marks)
- b) Describe the following Key Privacy and Anonymity Issues. (16 marks)
  - i. Data encryption
  - ii. Identity theft
  - iii. Customer profiling

- iv. Need to treat customer data responsibly
- v. Workplace monitoring
- vi. Spamming
- vii. Advanced surveillance techniques

**QUESTION FIVE (20 Marks)**

- a) Discuss the Ethical Principles in an Information society. (8 marks)
- b) As part of the internet issues Federal Trade Commission (FTC) established 5 *Core Fair Info Practices*. Discuss the practices. (8 marks)
- c) Discuss the following act as relates to Children and the internet. (4 marks)
  - *Communications Decency Act of 1996 (CDA) and Child Online Protection Act of 1998 (COPA)*
  - *Children's Online Privacy Protection Act of 2000 (COPPA)*