



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of JKUAT)

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

UNIVERSITY EXAMINATION FOR BACHELOR OF TECHNOLOGY IN INFORMATION TECHNOLOGY

BTIT/MAY2011/S-EV (YIII, SEM I)

EIT 4302: ICT PROFESSIONAL ETHICS

END OF SEMESTER EXAMINATION

SERIES: APRIL 2012

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- Answer Booklet

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

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

Maximum marks for each part of a question are as shown

This paper consists of **TWO** printed pages

SECTION A (COMPULSORY)

Question One (30 Marks)

- a) Outline the characteristics of computer and state the result of each characteristics (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 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 (4 marks)
- g) Outline the **TEN** commandments of computer ethics (5 marks)
- h) Explain the term Encryption (4 marks)

SECTION B (Attempt any TWO sections)

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 of privacy (6 marks)
(ii) Describe the Technical Privacy Control (8 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:
a) Clickstream Data Analysis
b) Cookies
c) Pharming
d) Phishing
e) 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)
- *Communication Decency Act of 1996 (CDA)* and *Child Online Protection Act of 1998 (COPA)*
- *Children's Online Privacy Protection Act of 2000 (COPPA)*