



**TECHNICAL UNIVERSITY OF MOMBASA**  
**INSTITUTE OF COMPUTING AND INFORMATICS**

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Select department

**UNIVERSITY EXAMINATION FOR:**  
**BACHELOR OF TECHNOLOGY IN INFORMATION AND**  
**COMMUNICATION TECHNOLOGY**

EIT 4111 :ICT AND SOCIETY

END OF SEMESTER EXAMINATION

**SERIES:APRIL2016**

**TIME:2HOURS**

**DATE:Pick DateMay2016**

**Instructions to Candidates**

You should have the following for this examination

*-Answer Booklet, examination pass and student ID*

This paper consists of **FIVE** questions. Attemptquestion ONE (Compulsory) and any other TWO questions.

**Do not write on the question paper.**

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**Question ONE**

a) Explain the following terms:

- (i) Software theft
- (ii) Privacy
- (iii) Security
- (iv) Luddites
- (v) Computer Viruses
- (vi) Hacking
- (vii) Computer crime
- viii) Repetitive Strain Injuries

(16 Marks)

b) Explain the difference between the following terms:

- i) “Physical security” and “Information Security”
- ii) “Computer error” and “Computer failure”

(8 Marks)

- c) Explain any two types of anonymities (4 Marks)  
d) Using suitable examples, explain the term “Freedom of Speech”. (2 Marks)

### Question TWO

- a) The most devastating effect of employee surveillance in fear of losing their jobs. Discuss any Eight problems caused by electronic monitoring of workers. (16 Marks)  
b) State any four surveillance technologies used to monitor workers. (4 Marks)

### Question THREE

- a) Explain any four mechanisms that should be put in place so that physical security can be guaranteed. (8 Marks)  
b) Explain the following terms as used in Computer Security:  
(i) Confidentiality  
(ii) Integrity  
(iii) Availability (6 Marks)  
c) Explain the difference between “Authentication” and “Encryption” (4 Marks)  
d) Explain the term “Firewall” (2 Marks)

### Question FOUR

- a) Password security greatly depends on the password owner observing all of the four “never” cardinal rules. Identify these rules. (4 Marks)  
b) Explain the term “Telecommuting” (2 Marks)  
c) i) Explain the term “Offensive Speech” (2 Marks)  
ii) Outline any four conditions for Material to be considered obscene (4 Marks)  
d) Explain any four methods of physical authentication (8 Marks)

### Question FIVE

- a) The nature of the surveillance with respect to the awareness of the surveiltee(s) is important in the broader contexts of law and individual freedoms. Explain the following terms:  
i) Overt surveillance  
ii) Covert surveillance  
iii) Extraliminal surveillance (6 Marks)  
b) When Repetitive Strain Injuries (RSI) is caught in time, it can be cured with proper care and prescriptions that emphasize changes in individual work styles and techniques. In the context of this statement:  
i) Define the term “Ergonomics” (2 Marks)  
ii) Identify any four the main causes Repetitive Strain Injuries (4 Marks)  
iii) Identify any four symptoms of repetitive stress injuries (4 Marks)  
iv) Suggest any four changes in work styles and techniques the that are can reduce repetitive stress injuries. (4 Marks)