TECHNICAL UNIVERSITY OF MOMBASA

INSTITUTE OF COMPUTING AND INFORMATICS

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: 1May2016

<u>Instructions to Candidates</u>
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.

Question ONE

a) 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 this statement:

    i) Explain the term "Repetitive Strain Injuries" (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)

b) Explain any two types of anonymities (4 Marks)

c) Explain the difference between the following terms:

    i) "Authentication" and "Encryption"

    ii) "Overt surveillance" and "Covert surveillance" (8 Marks)

d) Explain the following terms:

    (i) Software theft

    (ii) Computer crime (4 Marks)

Question TWO

a) Password security greatly depends on the password owner observing all of the four "never" cardinal rules. Identify these rules. (4 Marks)

b) i) Explain the term "Offensive Speech" (2 Marks)
   ii) Outline any four conditions for Material to be considered obscene (4 Marks)

c) Explain any five methods of physical authentication (10 Marks)

Question THREE

a) Explain any five mechanisms that should be put in place so that physical security can be guaranteed.
(10 Marks)

b) Explain the following terms as used in Computer Security:
   (i) Confidentiality
   (ii) Integrity
   (iii) Availability (6 Marks)

c) Explain the term "Firewall" (2 Marks)

d) Using suitable examples, explain the term "Freedom of Speech". (2 Marks)

Question FOUR

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 FIVE

a) The nature of the surveillance with respect to the awareness of the surveillee(s) is important in the broader contexts of law and individual freedoms. Explain the following terms:
   i) Extraliminal surveillance
   ii) Implied surveillance
   iii) Clandestine surveillance (6Marks)

b) Explain the difference between the following terms:
   i) "Physical security" and "Information Security"
   ii) "Computer error" and "Computer failure" (8 Marks)

b) Explain the following terms:
   (i) Software theft
   (ii) Privacy
   (iii) Luddites
   (iv) Anonymity (8 Marks)