TECHNICAL UNIVERISTY OF MOMBASA

Faculty of Engineering & Technology

UNIVERSITY EXAMINATION FOR:
BACHELOR OF TECHNOLOGY IN INFORMATION TECHNOLOGY
(BSTT 13S – Y1 S2)

EIT 4111: ICT AND SOCIETY

END OF SEMESTER EXAMINATION
SERIES: APRIL 2014
TIME: 2 HOURS

Instructions to Candidates:
You should have the following for this examination
-   *Answer Booklet*
This paper consists of **FIVE** questions.
Attempt question **ONE (COMPULSORY)** and any other **TWO** questions
Maximum marks for each part of a question are as shown
This paper consists of **TWO** printed pages

Question One (Compulsory)

a) Explain the following concepts as used in ICT and Society.   **(12 marks)**
  (i)   Ergonomics
  (ii)   Social Networking Computing
  (iii) Cloud Computing
  (iv)   Repetitive Strain Injuries
  (v)   Encryption
  (vi)   Security

b) Differentiate between the following terms:
  (i)   "Fault Tolerance" and "Fault Avoidance"
  (ii)   "Privacy" and "Anonymity"
  (iii) "Information Communication Technology" and "Technological Convergence"

                                                                                            (12 marks)
c) State any FOUR benefits of ICTs to the society.   **(4 marks)**

d) Identify any FOUR forms of speech found in cyberspace that some people consider offensive.

(2 marks)

Question Two

a) Describe the THREE aspects of privacy. **(6 marks)**

b) The average life of a computer is 3 – 4 years yet a computer's life can be cut down to a fraction of that amount if the machine is not kept in perfect condition.
- **(i)** Outline any FIVE causes of computer failures. **(10 marks)**
- **(ii)** Identify any FOUR causes of computer errors. **(4 marks)**

Question Three

a) The Internet has accelerated rates and scale of violations of individual privacy. Outline any FIVE factors or causes contributing to violations. **(10 marks)**

b) Explain the following attributes of privacy:
- **(i)** Autonomy
- **(ii)** Personal identity
- **(iii)** Pseudo-identity **(6 marks)**

c) State any FOUR physical authentication methods for the users. **(4 marks)**

Question Four

a) Computers have caused new social problems to the society. Explain the following problems, giving suitable examples where applicable:
- **(i)** Computer crime
- **(ii)** Software theft
- **(iii)** Spams
- **(iv)** Hacking
- **(v)** Information disclosure **(10 marks)**

b) State any FOUR reasons for monitoring employees at the workplace. **(4 marks)**

c) State any TWO surveillance technologies. **(2 marks)**

Question Five

a) Explain the term "telecommuting". **(2 marks)**

b) Outline any FOUR positive impacts of telecommuting to individuals. **(8 marks)**

c) State any FOUR components of telecommuting technology. **(4 marks)**