



TECHNICAL UNIVERISTY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

UNIVERSITY EXAMINATION FOR BACHELOR OF TECHNOLOGY IN
INFORMATION COMMUNICATION TECHNOLOGY
(BTICT J12/FT/BTIT M11)

EIT 4301: ICT PROFESSIONAL ETHICS

END OF SEMESTER EXAMINATION

SERIES: APRIL 2013

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** 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) State any **FOUR** reasons why ethics and law are needed in computing. **(4 marks)**
- b) Explain the following terms as used in ICT professional ethics:
- (i) Escrow
 - (ii) Intellectual property
 - (iii) Copyright
 - (iv) Breach of contract
 - (v) Damages **(10 marks)**
- c) Explain the following social problems resulting from existence of computers:
- (i) Software theft
 - (ii) Computer misuse
 - (iii) Computer crime
 - (iv) Computer errors **(10 marks)**
- d) Explain the following terms:

- (i) Contract
 - (ii) Software contract
 - (iii) Code of conduct
- (6 marks)

Question Two

- a) Explain any **FOUR** reasons why ICTs have contributed to many ethical issues in the society. (4 marks)
- b) Both ethics and Law complement each other when an individual is using ICT resources:
- (i) Discuss any **THREE** similarities between ethics and law (6 marks)
 - (ii) Discuss any **FIVE** differences between the ethics and law (10 marks)

Question Three

- a) Explain the following terms:
- (i) Profiling
 - (ii) Non-obvious Relationship Awareness (NORA) (2 marks)
- b) ICT has heightened ethical concerns and made some laws severely crippled. Explain any **FOUR** key technological trends that raise ethical issues. (8 marks)
- c) Explain any **FIVE** moral dimensions of the information age. (10 marks)

Question Four

- a) Explain any **FIVE** functions of code of ethics. (10 marks)
- b) Ethical choices are decisions made by individuals who are responsible for the consequences of their actions. Explain the following terms:
- (i) Responsibility
 - (ii) Accountability
 - (iii) Liability
 - (iv) Due process (8 marks)
- c) State any **FOUR** clauses that should be included in a bespoke contract. (2 marks)

Question Five

- a) Explain the terms “Ergonomics” (2 marks)
- b) State the **FIVE** commitments highlighted in IEEE code of ethics. (5 marks)
- c) Explain the following occupational diseases related to the use of ICTs, identify symptoms in each case:
- (i) Carpal tunnel syndrome
 - (ii) Computer vision syndrome
 - (iii) Techno stress (6 marks)
- d) When repetitive stress injuries are caught on time, they can be cured with proper care and prescriptions that emphasize changes in individual work styles and techniques. Suggest any **FIVE** such changes in work styles and techniques. (5 marks)
- e) Explain the following terms:
- (i) Patents

(ii) Trade secrets

(2 marks)