



GRE TSA UNIVERSITY - THIKA

UNIVERSITY EXAMINATIONS JANUARY – APRIL 2025 SEMESTER

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

COURSE CODE: BSCS 414

COURSE TITLE:PROFFESIONAL ETHICS IN COMPUTING

DATE:

TIME:

INSTRUCTIONS TO CANDIDATES

1. SECTION A IS **COMPULSORY**.
2. SECTION B: ANSWER ANY OTHER **TWO** QUESTIONS.
3. **DO NOT** WRITE ANYTHING ON THIS QUESTION PAPER AS IT WILL BE AN EXAM IRREGULARITY.
4. ALL ROUGH WORK SHOULD BE AT THE BACK OF YOUR ANSWER BOOKLET AND CROSSED OUT.

CAUTION: All exam rooms are under CCTV surveillance during the examination period.

SECTION A: COMPULSORY

Question One

- a) Define the following terms as used in professional ethics: [4 marks]
- i. Computer Ethics
 - ii. Copyright
- b) Using relevant examples differentiate between computer Crime and cybercrimes. [4 marks]
- c) Explain the concept open source as an alternative of distributing software and elucidate any four beneficial consequences of Open-Source Software [6 marks]
- d) What is the distinction between: [4 marks]
- i. Copyright infringement and piracy?
 - ii. A copyrighted and a copy Left material
- e) Describe some of the Ethical issues arising from professional relationships in the modern-day organizations. [6 marks]
- f) Identify and describe THREE benefits to society of adopting a Code of Conduct in computing. [6 marks]

SECTION B: ANSWER ANY TWO QUESTIONS

Question Two

- a) Although the computing professions meet many criteria of other strongly differentiated professions, they are still deficient in significant ways. Explain TWO of these ways. [4 marks]
- b) While most spamming is not illegal, even honest spamming is considered unethical by many people. Explain THREE reasons why it is considered unethical. [3 marks]
- c) There exist EIGHT specific professional responsibilities/considerations contained in the ACM Code of Ethics and Professional conduct that an ACM member is expected to practice. Discuss these specific professional responsibilities/considerations. [8 marks]
- d) Describe the benefits of a professional code of ethics to the professionals and the public [5 marks]
- a)]

Question three

- a) Discuss the main steps followed when making an ethical choice? [6 marks]
- b) Distinguish between consequence-based and rule-based as principles of moral judgment.
[6 marks]
- c) Discuss any four functions of computer codes of ethics to computer professions.
[8 marks]

Question Four

- a) State the copyright law [2 marks]
- b) Explain two condition that a copyright must fulfill before it is registered .[4 marks]
- c) What are the guideline that will be applied to protect the following computer objects
 - i. Protecting hardware
 - ii. Protecting the code
 - iii. Protecting source code software.
 - iv. Protecting document. [8 marks]
- d) Elaborate what is copyrighted in : [6 marks]
 - i) Computer software
 - ii) Digital objects

Question five

- a) A Kenyan company has developed a novel computing device which is completely flexible and can be rolled up. Discuss the protection for the company that could be provided by a patent and a trademark. [8 marks]
- b) For the company in part (a), discuss what the company would need to do to obtain a patent and a trademark. (8 marks]
- c) Describe Moors' Law , and state its relevance to technological advancement in current age.
[4 marks]