MASENO UNIVERSITY

UNIVERSITY EXAMINATIONS 2016/2017

FOURTH YEAR SECOND SEMESTER EXAMINATIONS FOR THE DEGREE OF BACHELOR OF EDUCATION AND BACHELOR OF ARTS WITH INFORMATION TECHNOLOGY

HOMA-BAY CAMPUS

SCS 409: IT AND SOCIETY

Date: 2nd December, 2016   Time: 9.00 - 12.00 noon

INSTRUCTIONS:

- Answer ALL questions in SECTION A and any other TWO questions from SECTION B.

SECTION A: COMPULSORY QUESTION {30 MARKS}

QUESTION 1

a) Outline any FOUR benefits individuals, the profession and society stand to gain when professions arepracticed according to professional code of ethics. **[4 Marks]**

b) Ethics can be summed up as a branch of philosophy concerned with judgments of the rightness of an act. Discuss any THREE ethical theories and concepts. **[3 Marks]**

c) Outline any THREE reasons why we need ethics in computers. **[3 Marks]**

d) Privacy is a fundamental human right recognized in all major international agreements regarding human rights.

    i.   How does usage of information technology affect privacy? **[10 Marks]**

    ii.   How would one protect his/her privacy while on the internet? **[10 Marks]**

SECTION B: **ANSWER ANY TWO QUESTIONS**   {20   MARKS EACH}.

QUESTION 2

a) Discuss some of the trends that have increased the risk of using IT unethically thus raising public concern on ethical use of IT.   **[5 Marks]**

b) According to the Law society of Kenya, it has been increasingly difficult to prosecute computer crime cases. Discuss FOUR challenges faced in investigating computer crimes.   **[4 Marks]**

c) Discuss any THREE theories of Society.   **[6 Marks]**

d) Communications Commission of Kenya (CCK) has recently reported an increase in computer crime in Kenya. Discuss any FIVE ways in which a company can safeguard against computer crime.   **[5 Marks]**

QUESTION 3

a) Ms. Ojiambo has been asked by his IT manager to integrate the company's ERP system with a weaker system to validate a merger the company is getting into. Describe the process of ethical decision making he should use to guide him in solving this dilemma.

     [10 Marks]

b) Outline the top TEN rules of computer ethics that act as guidelines to software developers, hardware developers and other systems developers.   **[5 Marks]**

c) Define the term Intellectual property mentioning SIX laws outlined in intellectual property rights (IPR).   **[5 Marks]**

QUESTION 4

a) Discuss any THREE security attacks to information/computers/systems suggesting any mitigation measures you would apply to protect data.   **[6 Marks]**

b) Mr. Maina is in his final year at the University and due to his techno savvy nature, has developed new software to be used in E-learning. Define the term patent and discuss the steps he needs to follow in order to apply for a patent to protect his work. **[6 Marks]**

c) Data protection act focuses on ensuring privacy of data and enforces rules governing how data controllers must deal with data. Discuss any FOUR principles of the data protection act. [8 Marks]

QUESTION 5

a) A large number of activities, and their complex nature, conducted by information technology professionals, and users, can sometimes have serious repercussions, and affect the well being of many individuals. Identify and discuss any FIVE of the ethical issues arising when using information and communication technology . [10 Marks]
b) Write short notes on Technical view of ICT versus social informatics view of ICT mentioning their implications in understanding IT and society. [6 Marks]
c) Discuss any FOUR implications of the copy right law on Software. [6 Marks]