MASENO UNIVERSITY

UNIVERSITY EXAMINATIONS 2016/2017

FOURTH YEAR SECOND SEMESTER EXAMINATIONS FOR THE
DEGREE OF BACHELOR OF SCIENCE IN INFORMATION
TECHNOLOGY

MAIN CAMPUS

CIT 402: SOCIAL AND PROFESSIONAL ISSUE IN IT

Date: 3rd August, 2017   Time: 12.00 - 3.00 pm

INSTRUCTIONS:

- Answer question one in SECTION A and any other TWO from SECTION B

SECTION A: {30 MARKS}.

Question 1

Read this paragraph, and then answer the following questions:

In March 2000, a Welsh teenager allegedly downloaded information from more than 26,000 credit card accounts across Britain, the US, Japan, Canada and Thailand, and published the details on the Internet. FBI agents and British police raided the home of the 18 year old and arrested him and a friend.

a) Define carefully the meaning of the two terms: hacker *and* cracker. In your view, which best describes the Welsh teenager's crime and why?

[4 marks]

b) Outline the offences committed by the Welsh teenager.   [10 marks])

c) A report published last year claimed that a third of the world's major companies and public sector organisations had been the victim of cyber-terrorists. Briefly describe the effects of hacking particularly on online businesses.   [10 marks])

d) For what purposes is copying of copyrighted works allowed?   [2 Marks]

e) If the copyright laws were not strictly enforced and breach of them was common, what do you think the consequences would be in terms of development of new software   or   other   creative   endeavours? [4 marks].

Question 2:{20 Marks}.

a) Outline any five benefits individuals, the profession and society stand to gain when professions are practiced according to professional code of ethics. **[10 Marks]**

b) There are many thousands of laws around the globe – national laws, state laws, local laws. Each law has a specific jurisdiction where it applies. How has the Internet generated jurisdictional "policy vacuums" that are relevant to the field of computer security? Explain in general, and then give a specific example. **[10 Marks]**

Question 3:{20 Marks}.

a) Outline and describe briefly five measures that a commercial software company might adopt to compete with the growing success of open source software. **[10 marks]**

b) Long before computers were invented, gathering of information about individuals, storing it, and retrieving were common. How did the invention of computers and the rapid development of information and communication technology transform these activities into serious risks to privacy? **[10 Marks]**

Question 4:{20 Marks}.

a) In your own view, how do the security considerations for temporary or contract employees differ from those for regular full-time employees in an IT intense organization? **[8 Marks]**

b) Suppose that the security systems on several of the computers on the university's network have been bypassed and personal information on staff and students was illicitly inspected and copied. You know who is responsible for this as it is one of your friends. They claim to have done this only in order to expose shortcomings in the university's computer security and have since destroyed their copy of this information. The university sends all staff and students an email asking for information concerning this incident.
Describe the course of action you would consider and what suggestions would you take to come to your decision.
[12 Marks]

Question 5:{20 Marks}.

a) Such kinds of people like in Question 1 often work from home. Give four advantages and four disadvantages of working from home (teleworking). **[10 marks]**

b) What significance does the increasing rate and pace of advances in information and communications technologies have for organizations? **[10 Marks]**