



MASENO UNIVERSITY

UNIVERSITY EXAMINATIONS 2017/2018

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

MAIN CAMPUS

CIT 407: INFORMATION TECHNOLOGY AND SOCIETY

Date: 19th February, 2018

Time: 3.30 - 6.30 pm

INSTRUCTIONS:

- Answer ALL questions in SECTION A and any other TWO from SECTION B
- Write your registration number on all sheets of the answer book used.
- Use a NEW PAGE FOR EVERY QUESTION attempted, and indicate number on the space provided on the page of the answer sheet.
- Fasten together all loose answer sheets used.
- Mobile phones and PDAs are NOT allowed in the examination room.



SECTION A: {30 MARKS}.

Question 1

- a) Many people are now using the Internet for banking, shopping, booking holidays and theatre tickets.

Discuss this development and its effect on the general public. [15 Marks]

- b) Explain the term Risk, The risk assessment process can be broken down into four main phases: describe each step. [10 Marks]

- c) Explain any **five** importances of ICT policies in organizations. [5 Marks]

SECTION B: {40 MARKS}.

Question 2:{20 Marks}.

- a) Many organizations such as retailers are expanding their e-commerce operations and need ICT systems that are available 24 hours a day every day of the year. It is important for their customers that the ICT systems are kept working. E-commerce operations have specific needs for the backup and recovery of their systems. Describe how these needs could be met. [8 marks]
- b) Social networking sites are used by many students. Discuss the possible effects of using these sites on individuals and society. Your discussion should be guided by the following subtopics: [12 marks]
- i. Use of the internet for socializing
 - ii. The protection of personal data
 - iii. Ethical factors
 - iv. Cultural factors.

Question 3:{20 Marks}.

- a) Discuss the challenges of computer security to an IT professional. [6 marks]
- b) Outline and discuss the ethical and security issues arising from the inability of cyber law to keep up with computer crime. [14 marks]

Question 4:{20 Marks}.

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

- a) How does usage of information technology affect privacy [10 marks]
- b) How would one protect his/her privacy while on the internet [10 marks]

Question 5:{20 Marks}.

Green ICT is the practice of environmentally sustainable ICT and it also deals with designing, manufacturing, using, and disposing of ICT equipments such as monitors, printers, storage devices, routers etc efficiently and effectively with minimal or no impact on the environment. Green ICT also strives to achieve economic viability and improved system performance and use, while abiding by our social and ethical responsibilities.

By use of various technologies explain how underlined and bolded statements can be addressed. [20 marks]