



KENYATTA UNIVERSITY
UNIVERSITY EXAMINATIONS 2010/2011
FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF
SCIENCE (COMPUTER TECHNOLOGY)

SCT 104: COMPUTER AND SOCIETY

DATE: THURSDAY 2ND DECEMBER 2010

TIME: 11.00 A.M. - 1.00 P.M.

INSTRUCTIONS

Answer QUESTION ONE and any OTHER TWO QUESTIONS.

QUESTION ONE

- a) Define the following terms in the context of computers and society
- i) Luddite syndrome
 - ii) Privacy
 - iii) Cybernetics
 - iv) Patent
 - v) Hacking
- (5 marks)**
- b) Explain the ideas of Charles Babbage that makes him to be referred to as the "Father of modern computers".
- (4 marks)**
- c) Define the term computer ethics and give four reasons why they are needed.
- (5 marks)**
- d) Explain the four types of computer criminals.
- (8 marks)**
- e) A trademark is a word, name, symbol or device used to distinguish one company from another. For distinctiveness these marks are grouped into four categories. Identify and explain the four categories.

(8 marks)

QUESTION TWO

Many Information Technology related products are available at work places which include Visual Display Terminals (VDTs), barcode scanners used in most retailing businesses keyboards, and Internet. Each of these technologies almost certainly gives rise to numerous health-related

complications to employees if ergonomic issues are not properly addressed such as Repetitive Strain injuries (RSI). Internet Addiction Disorder and Computer Vision Syndrome (CVS)

REQUIRED

- i) Define what you understand by the terms "RSI", "IAD", and "CVS" **(6 Marks)**
- ii) Briefly outline four (4) symptoms shown when one is suffering from RSI and solution to minimize RSI. **(6 Marks)**
- iii) Briefly explain four (4) symptoms shown when one is suffering from IADI.

(8 Marks)

QUESTION THREE

Suppose you have been appointed as the manager of Mumias Sugar Company. As the manager you are supposed to make decisions that touches on a number of areas such as shareholders, workers, stakeholders among the many. There are several theories related to business ethics that as manager when taking decision you should consider.

REQUIRED

- (a) In details discuss the three business ethics that a manager should consider when making any decision for company. **(6 marks)**
- b) In history we do have ethical principles that have survived throughout and their roots is in many cultures. State and explain any seven of these ethical principles.

(14 marks)

QUESTION FOUR

The data and information an organization has is important. This data and information raises several concerns for an organization such as security of the data and privacy of the data.

REQUIRED

- (a) Explain what you understand by the term "Security and Privacy". **(4 Marks)**
- (b) Briefly explain the four (4) principles of security. **(8 Marks)**
- (c) Outline four (4) functions of Privacy according to Westin. **(4 Marks)**
- (d) Outline four (4) concerns of data privacy. **(4 Marks)**

QUESTION FIVE

- (a) Most companies strive to extend internet services to all members of their staff. However, the management may not be aware of the potential misuse of the internet service which is likely to be perpetuated by the members of staff. As part of your internship responsibility; you have been asked by the management to highlight possible misuses of the internet services that are likely to be perpetuated by the employees and indicate how such misuse could be minimized.

Required:

State and explain any five possible misuses of the Internet services that are likely to be perpetuated by the employees.

(10 arks)

- (b) In 1960s Donn Parker made a state "that when people entered the computer center they left their ethics at the door". Briefly explain the statement and give an example that supports your argument.

(4 marks)

- (c) **"ABSOLUTE SECURITY IS UNATTAINABLE, AND DOING NOTHING IS DANGEROUS, SO HOW MUCH SECURITY IS ENOUGH"** MARTIN KOCHANSKI. So in your own opinion how much security is enough, explain.

(6 marks)