BONDO UNIVERSITY COLLEGE

UNIVERSITY EXAMINATION 2012/2013

1ST YEAR 1ST SEMESTER EXAMINATION FOR DIPLOMA IN LINUX ENGINEERING

(KISUMU LEARNING CENTRE)

COURSE CODE: ICT 2218
TITLE: SOCIAL, LEGAL & ETHICAL ISSUES IN COMPUTER SCIENCE
DATE: 11/12/2012   TIME: 14.00-15.30PM

DURATION: 1.30 HOURS

INSTRUCTIONS

1. This paper contains TWO sections
2. Answer ALL questions in section A (Compulsory) and ANY other 2 Questions in section B
3. Write all answers in the booklet provided

Section 1: Answer All Questions

1.
   a) Define Ethics   2 marks
   b) Define privacy   2 marks
   c) True or false? Computer crimes, such as embezzlement or planting of logic bombs, are normally committed by trusted personnel who have permission to use the computer system.
                                                           2 marks
   d) What is integrity   2 marks
   e) Web sites often load files on your computer called ……………to record times and pages visited and other personal information   *2 marks*
   f) …………… software that tracks your online movements, mines the information stored on your computer, or uses your computer for some task you know nothing about.
                                                       2 marks
   g) According to Internet Activities Board (IAB), Unacceptable and unethical activities leads to all the following <u>except</u> one, which one is it?   2 marks
        • Seeks to gain unauthorized access to resources of the internet
        • Destroys integrity of computer based information
        • Disrupts the use of the internet
        • Compromise on privacy of users is negligible

   h) Which of the following is NOT part of ISC2 Code of Ethics   2 marks
        • Report any unlawful acts
        • Support and be active in promoting best information security practices
        • Provide competent services to their clients, employees & community
        • Be professional
        • None of the above

   i) State 4 types of software licenses   4 marks

Section 2: Answer Any Two Questions

2.
      a) Name the described computer ethics for computer professionals   3 marks
                       (Integrity, Competence, Responsibility)
        i). Professionals keep up with the latest knowledge in their field and perform services only in their area of competence………………….
        ii).Professionals are loyal to their clients or employees, and they won't disclose confidential information………………………
        iii). Professionals express their opinions based on facts, and they are impartial in their judgments. ……………..

      b) Can privacy be protected? If so how?   4 marks
      c) State any 4 reasons why business ethics is important   4 marks
      d) Differentiate between Gifts and bribes from ethical point of view   4 marks
      e) List any 5 E-Mail Netiquette   5 marks

3.
      a) List three useful ethical principles   3 marks
      b) Enumerate 5 roles of codes of ethics   5 marks

c) Why do we need privacy? 3points x 2   6 marks
d) State any 6 measures that can be put in place to enhance data security and privacy
                                                                                6 marks

4.

a) List and briefly explain the four main issues of IT ethics concern   8 marks

b) Match the four common approaches used in ethical decision making
   (Utilitarian Approach, Virtue Approach, Common Good Approach, Fairness Approach)

   i).   The ethical choice is the one that best reflects moral virtues in ourselves and our
         community. …………..   2 marks
   ii). The ethical choice is the one that produces the greatest excess of benefits over
         harm………………..   2 marks
   iii). The ethical choice is the one that treats everyone the same and does not show
         favoritism or discrimination……………………………   2 marks
   iv). The ethical choice is the one that advances the common good……………………
                                                         2 marks
c) List any 4 General Federal Privacy Laws   4 marks

5.
   a) List the 'Ten commandments' of ethics   5 marks
   b) Match the following issues of ownership to the right description   7 marks
      (Intellectual property, plagiarism, trade secret, Piracy, patent, Trademark, copyright,)
      i). Illegal software copying…………………..
      ii). copying text from other sources when original work is expected……………..
      iii). Intangible creations protected by law………………………
      iv). Intellectual work or products belonging to a business, not in public domain….
      v). Statutory grant protecting intellectual property from copying by others for 28
           years……………..
      vi). Legal document granting owner exclusive monopoly on an invention for 17
           years……………….
      vii).   Establishes a word, name, symbol, color, sound, product shape, device or
           combination of these used to uniquely identify goods or services………………

   c) Differentiate the following terms by matching with respective definitions as used in ethics
                                                                       6 marks
      (Moral codes, Morality, Vices, Ethics, Virtues, Value system)
      i).   ……………is the complex scheme of moral values that we choose to live by
      ii). ……………are habits that incline us to do what is unacceptable.
      iii). ……………are habits that incline us to do what is acceptable.
      iv). …………... refers to social conventions about right and wrong human conduct.
      v).   ……………are beliefs regarding right and wrong behavior.
      vi). ……………are the rules that establish the boundaries of generally accepted
                      behavior.
   d)   What is authentication and how does it enhance privacy?   2 marks

6.
a) What are the three different regimes that protect intellectual property rights? What challenges to
   intellectual property rights are posed by the Internet?   10 marks
b) Explain briefly 5 reasons why business ethics is important   10 marks