JARAMOGI OGINGA ODINGA UNIVERSITY
OF SCIENCE & TECHNOLOGY
UNIVERSITY EXAMINATIONS 2012/2013
1ST YEAR 2ND SEMESTER DEGREE OF BACHELOR OF SCIENCE
(COMPUTER SECURITY AND AUDIT)
(KISUMU L.CENTRE)

COURSE CODE: SCS 3123

COURSE TITLE: INTERNAL CONTROLS & SECURITY ISSUES

DATE: 12/8/2013   **TIME: 9.00-11.00 AM**

DURATION: 2 HOURS

INSTRUCTIONS

1. This paper consists of 5 Questions.
2. Answer Question 1 (Compulsory) and any other 2 questions.
3. Write your answers on the answer booklet provided.

Question one 30marks

a) Discuss THREE application areas in Healthcare using examples that ICT has completely transformed operations {3 marks}

b) What is HCI in computing {3 marks}

c) Enumerate THREE objectives of HCI {3 marks}

d) Define the term teleworking giving two examples. {3 marks}

e) Give TWO advantages and disadvantages of teleworking {3 marks}

f) List three activities that you would consider unethical use of computer in the health industry {3marks}

g) List THREE activities that are considered criminal use of computer in the health industry {3 marks}

h) Give THREE precise application fields of telecommuting in health today {3 marks}

i) Give the full meanings of the acronyms below
   i. E-health
   ii. EPOS
   iii. EFT
   iv. M-banking.
   v. E-waste
   vi. SMS {6 marks}

Question 2 20marks

a) Explain four health issues which can arise from prolonged use of computers. Suggest a solution for each health issue mentioned. {10 marks}

b) Explain how ICT has led to intrusion into people's privacy. {5 marks}

c) Is there need to a policy in Kenya that guarantees the protection of health information and makes it criminal if it is violated. Discuss {5 marks}

Question 3   20marks

   i) Discuss the influence of ICT to the following national and international developments

       a. Security
       b. Health
       c. Education
       d. Business

{12 marks}

   ii) Jaramogi Oginga Odinga teaching and Refferal Hospital intends to triple the number of patients a doctor can see in a day in their facility to ease the long congestion they currently witness in the hospital, you have been tasked to suggest at least THREE technological ventures that JOOTRH can adopt to achieve this ambitious objective. Explain your suggestions in detail.

{8 marks}

Question 4 20marks

  a) Describe the following types of computer crimes:
      i.   Computer Fraud
      ii.   Computer Hacking
      iii. Eavesdropping on a computer
      iv. Forgery
      v.   Pornography

{10 marks}

  b) Discuss any **five** principles of the data protection as outlined in the Data Protection Act.

{10 marks}

Question 5   20marks

Describe the positive and negative contributions of ICT to our society picking **FIVE** topical application areas.   {20 marks}