JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS

UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF EDUCATION

4TH YEAR 2ST SEMESTER 2014/2015 ACADEMIC YEAR

MAIN CAMPUS

COURSE CODE: SCS 427

COURSE TITLE: PROFESSIONAL AND ETHICAL ISSUES IN COMPUTERS

EXAM VENUE: **STREAM:**

DATE: Jan 2015   **EXAM SESSION:**

TIME: 2.00 HOURS

INSTRUCTIONS:

1. Answer Question 1 (Compulsory) and ANY other two questions
2. Candidates are advised not to write on the question paper
3. Candidates must hand in their answer booklets to the invigilator while in the examination room

QUESTION ONE 30 MARKS

a) Give **FOUR** examples of how professional bodies can contribute to professional practice in any IT organisations. 4 marks

b) Using relevant examples discuss any **THREE** types of luddite to be expected with the introduction of computers to your place of work. 6 Marks

c) Using relevant examples explain the Moral Paradox of Information Communication Technologies

10 Marks

d) A Management Information Systems (MIS) professional at a trouble Airways learns that she is going to be retrenched. She decides to encrypt large parts of the organization's database and hold it hostage. She contacts the systems administrator responsible for the database and offers to decode the data for Kshs10,000,000 in ransom and immunity from prosecution. Explain what action should be taken by the administrator 10 Marks

QUESTION TWO 20MARKS.

a) Explain what you understand by the term a **CONTRACT** 2 Marks

b) Name and explain any **FOUR** Components of a contract 8 marks

c) Using examples Compare and contrast between any **TWO** types of contracts 6 marks

d) Compare & contrast the protection that copyright and trademarks can provide for a software

8marks

QUESTION THREE 20MARKS.

a) *"The spread of new technologies has changed the way people interact and communicate and has created a new community for business, academics and others but on the other hand the legal and moral structures of the existing laws may not hold in cyberspace". Bouchard et al (2014)*

Explain the above statement placing a special emphasis on the Legal issues and how they impact on your work and way of life. 12 Marks

b) List any **FOUR** principles that a software engineer must adhere to as per IEEE CS/ACM Code of Ethics and Professional Practice 4 marks

c) Explain any **TWO** purposes of an IT professional bodies. 4 marks

QUESTION   FOUR 20MARKS.

a) Describe the key purpose and principles of the Freedom of Information Act 10 marks

b) What information is covered by the Freedom of Information Act? 6 marks

c) Explain how a web site can help a government to fulfil its obligations under the FOI. 4 marks

QUESTION FIVE 20MARKS

a) Outline the obligations placed upon Internet Service Providers (ISPs) by the UK Regulation of Investigatory Powers Act 2000, with regard to police investigations.   5 marks

b) IEC 62304 defines three safety classes for software. Using clear example name and explain this three classes   15marks