JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS

UNIVERSITY EXAMINATION FOR THE DIPLOMA IN COMMUNITY HEALTH

1ST YEAR 2ND SEMESTER 2016/2017 ACADEMIC YEAR

SPECIAL RESIST

MAIN CAMPUS

COURSE CODE: SCS 2124

COURSE TITLE: INFORMATION TECHNOLOGY AND SOCIETY.

EXAM VENUE: LAB 1   **STREAM: DIP**

DATE : 04/05/ 2016   **EXAM SESSION: 9.00 – 10.30 AM**

TIME: 1.30 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) Outline Five Reasons for studying IT & Society. (5 marks)

b) Discuss three reasons why we need ethics and law in computing. (3 marks)

c) Highlight Two examples of unethical computer code of conducts. (2 marks)

d) ICT development has changed every aspect of the human society. It has affected our life in many ways. Discuss. (8marks)

e) Briefly explain three tools used in health informatics [3marks]

f) Describe three risks arising from use of computers in a hospital [3 marks]

g) Briefly explain three benefits of using computers in hospitals [6 marks]

QUESTION TWO [20 MARKS]

a) Discuss four negative effects of internet in the society today. (8marks)

b) The four categories of ethical issues. (4marks)

c) Outline four main principles of electronic healthcare in health sector. (4marks)

d) Describe two major components that make up a computer system. (2 marks)

e) Other than the keyboard and mouse, describe two other input devices that are used in computerized hospitals. (2 marks)

QUESTION THREE [20 MARKS]

a) Define intellectual property. (2marks)

b) Discuss four types of Intellectual property protection. (8marks)

c) Discuss three ways computer technology threaten our privacy. (6marks)

d) Outline ways on how privacy can be protected. (4marks)

QUESTION FOUR [20 MARKS]

a) Explain the following types of computer networks (4marks)

    i. Local Area Network (LAN)

    ii. Wide Area Network (WAN)

    iii. Metropolitan Area Network (MAN)

    iv. Internet

b) Describe the negative impacts of computers to society today (4 marks)

c) Outline four benefits of computers in an organization (4 marks)

d) efine the term network topology (1mark)

e) List and briefly explain any two types of network topologies (2marks)

Question FIVE [20 MARKS]

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

b) Define the term biometric and discuss any four types of biometric authentication technologies being used today. (10marks)