



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF HEALTH SCIENCES
UNIVERSITY EXAMINATION FOR DIPLOMA IN COMMUNITY HEALTH AND
DEVELOPMENT**

1ST YEAR 2ND SEMESTER 2016/2017 ACADEMIC YEAR

MAIN CAMPUS

COURSE CODE: SCS 2124

COURSE TITLE: INFORMATION TECHNOLOGY AND SOCIETY

EXAM VENUE: STREAM :(Dip. Community Health& Development

DATE: SEPTEMBER- DECEMBER 2016 EXAM SESSION:

TIME: 11/2 HOURS

INSTRUCTIONS:

- 1. Answer Questions 1 (Compulsory) and ANY other Two(2) 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) Explain three ways how computer technology threaten privacy of our data (6Marks)
- b) Using a computer is generally safe; however there are a number of hazards to avoid. State four ways in which to ensure health and safety when using computers. (4Marks)
- c) Outline application areas of Information Technology in the health Sector. (4Marks)
- d) What's Cloud Computing and state four immediate benefits of Cloud computing (6Marks)
- e) Explain three reasons Why Protecting Intellectual Property right should be encouraged in modern society (6Marks)
- f) State any four commandments of computer ethics (4Marks)

QUESTION TWO (20 MARKS)

- a) Identify the five moral dimensions of an information society (6marks)
- b) Explain why it is necessary to have data protection rules. (6marks)
- c) Adoptions of ICT have evolved into a four-stage process, state and discuss these four-stage processes of ICT adoption in the society. (8marks)

QUESTION THREE (20 MARKS)

- a) Privacy is defined as the ability of an individual or group to seclude themselves or information about themselves and thereby reveal themselves selectively. Discuss briefly how the following new technologies pose privacy threats (10 Marks)
 - i) Email
 - ii) GPS (Global Positioning System)
 - iii) Public databases
 - iv) Social sites
 - v) Cookies
- b) Highlight Five examples of unethical computer code of conducts (5marks)
- c) Outline five main principles of electronic healthcare in health sector (5marks)

QUESTION FOUR (20 MARKS)

- a) Intellectual property is defined as any unique product of the human intellect that has commercial value. This is an accepted notion worldwide that people have a right to own property both physical and intellectual. State and briefly explain four strategies that can be used to protect intellectual property (12 Marks)
- b) Explain four differences between laws and ethics (8 Marks)

QUESTION FIVE (20 MARKS)

- a) Explain the difference between Computer as a Target and Computer as a Weapon (4Marks)
- b) Discuss the Advantages of implementing Cyber Security with regard to protection of information systems (8 Marks)
- c) Computer crime are on the rise. Discuss **Four** ways an enterprise may use to safeguard against computer crime (8 Marks)