



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 2013/2014 ACADEMIC YEAR
CENTRE: KISUMU

COURSE CODE: SCS 2124

COURSE TITLE: INFORMATION, TECHNOLOGY AND SOCIETY

EXAM VENUE: STREAM: Diploma in Comm. Health & Development

DATE: 4/12/2013 EXAM SESSION: 9.00 – 10.30 AM

TIME: 1 ½ HOURS

Instructions:

- 1. Answer ALL questions in section (A) and ANY other 2 questions in section B**
- 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 (COMPULSORY)

- a) Briefly discuss the integrated approach, as used in assessing the Impact of ICT on society (3 marks)
- b) What is the difference between data and Information? (3 marks)
- c) On what basis can we trust knowledge acquired from a range of sources? Discuss. (3 marks)
- d) In what ways does IT influence the accessibility of information? (3 marks)
- e) Briefly discuss the following words as used in computing.
 - Digital citizenship. (3 marks)
 - Policies. (3 marks)
 - Authenticity . (3 marks)
- f) An organization decided to cut costs and increase efficiency by automating their systems, employees are allowed to work from home and submit their work online. What are the risks involved? (3 marks)
- g) What is the CIA Triad? (3 marks)
- h) Briefly discuss the security breaches that would occur in accessing social sites at the workplace. (3 marks)

PART B.

QUESTION TWO

IT has revolutionized medicine. With the increasing size of the world's population, the effective management of health care using IT systems will become very important. DISCUSS. (15 marks)

QUESTION THREE

Developments in technology have allowed an increasing number of mobile devices to be developed that enable people to communicate anytime, anyplace, anywhere. There is a wealth of information available to society that can be accessed on demand and has changed the way in which people behave, DISCUSS the environmental, health and social/ethical issues related to these technologies. (15 marks)

QUESTION FOUR

A school is considering using the internet to enhance the learning opportunities of its students. Before making a final decision it intends to obtain an outline of the different facilities available. It must also consider the potential problems of opening this “window on the world”. Where appropriate, investigate different environments to experience the range of available learning opportunities. This may include research using different collaborative websites, educational websites or online sources of information. (15 marks)

QUESTION FIVE

The increasing capability of IT systems has allowed developers to implement systems that attempt to understand and imitate human behavior. These systems have already had profound effects on society, although their effectiveness is largely determined by the accuracy of the algorithms that underpin them. The increasing use of robotics, artificial intelligence (AI) and expert systems raises a range of ethical issues. DISCUSS. (15 marks)