

**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**SCHOOL OF HEALTH SCIENCES**

**UNIVERSITY EXAMINATION FOR DIPLOMA IN COMMUNITY HEALTH**

**1ST YEAR 1ST SEMESTER 2016/17 ACADEMIC YEAR**

**MAIN CAMPUS**

**COURSE CODE: SCS 2111**

**TITLE OF THE COURSE: INTRODUCTION TO COMPUTER APPLICATIONS**

**VENUE: STREAM: DIP CH/PH**

**DATE: 20//04/16 EXAM SESSION :11.30 – 1.00 PM**

**TIME: 1.30 HOURS**

**Instructions**

1. **Answer question 1 (compulsory) and ANY other 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.**

**SECTION I: 30 Marks**

**Question 1:**

(i) With an aid of a well labeleddiagram, discuss the main components of a microcomputer.

7 Marks

(ii) What is meant by the term peripherals in computing, explaining what a dump terminal

is? 3 Marks

(iii) What is the role of technology in health today 10 Marks

(iv) Identify the TWO types of computer memory giving the main differences between

them. 4 Marks

(v) Give THREE types of storage devices 3 Marks

(vi) What is a bit? How many bits make a byte and how many bytes make a kilobyte?

3 Marks

**SECTION II: 40 Marks**

**Question 2:**

(i) Explain what affects the speed and capacity of the computer? 4 Marks

(ii) Outline the THREE types of computer software as used in computing industry 6 Marks

(iii) With a brief explanation give FIVE application areas where computer technology is utilized

in our industries today. 10 Marks

**Question 3:**

(i) List THREE principles of data protection Act. 3 Marks

(ii) Identify the importance of using passwords, who or what is a computer hacker?3 Marks

(iii) What is considered to be a computer crime? 2 Marks

(iv) Outline ways in which one can make his/her work environment safe as far as the

use of computer equipment is concerned? 4 Marks

(v) Explain FIVE types of processing systems available in computing citing examples

where necessary**.**  8 Marks

**Question 4:**

(i)What is a computer network? 1 Mark

## (ii) Identify the THREE types of networks. 6 Marks

1. With examples where possible explain what is meant by network protocol. 3 Marks
2. Differentiate between an intranet and an extranet. 2 Marks

(v) Give THREE merits and demerits of having a network. Advantages of Networks 4 Marks

(vi) What is a computer virus? 1 Mark

(vii) List THREE ways one can prevent viruses from infecting his/her machine.3 Marks

**Question 5:**

1. What are some of the health problems associated with computing6 Marks
2. How and where is information technology technique such as audio, visual and even internet can be used to enhance public health in the society citing examples where appropriate 10 Marks
3. Cite at least eight benefits of the internet in health 4 Marks