



**JARAMOGI OGINGA ODINGA UNIVERSITY  
OF SCIENCE & TECHNOLOGY  
UNIVERSITY EXAMINATIONS 2012/2013  
2<sup>ND</sup> YEAR 2<sup>ND</sup> SEMESTER FOR DIPLOMA IN  
LINUX FOR ENGINEERING AND IT APPLICATIONS  
(KISUMU L.CENTRE)**

**COURSE CODE: SCS 2111**

**TITLE: INFORMATION TECHNOLOGY**

**DATE: 15/8/13**

**TIME: 9:00 – 10.30 AM**

**DURATION: 1.30 HOURS**

**INSTRUCTIONS**

- 1. This paper consists of 5 Questions.**
- 2. Answer Question 1 (Compulsory) and ANY other 2 questions.**
- 3. Write your answers on the answer booklet provided.**

## **Question one 30marks**

- A) The computer has evolved over time from large sized machines to miniaturized ones. What technology did the following generations use? (2Mks)
- 1st Generation. (2Mks)
- 2<sup>nd</sup> Generation . (2Mks)
- B) What are the features of 1st generation computers. (2Mks)
- C) How do you save a document in Ms. Word? (2Mks)
- D) Define a browser. (2Mks)
- E) Name an area in which spreadsheets can be used. (1Mk)
- F) Define the following terms as used in computing. (2Mks)
- G) Cache Memory. (2Mks)
- H) Byte code . (2Mks)
- I) Define a microcomputer and give an example. (2Mks)
- J) In which area can a super computer be used. (1Mk)
- K) Define the following terms. (1Mk)
- L) Software. (1Mk)
- M) Operating system. (1Mk)
- N) In what ways are computers used in education. (2 Mks)
- O) What is the difference between analogue and digital computers. (4 Mks)
- P) What is the difference machine language and high level language. (4 Mks)

## **SECTION B**

### **Question 2 20MARKS**

- a) Discuss how computers have revolutionalized the business sector. (10 Mks)
- b) The evolution of computers is categorized into 5 generations, briefly discuss each. (5 Mks)
- c) Describe the functions of an operating system. (5 Mks)

### **Question 3 20MARKS**

- a) Using a diagram, describe the components of a computer system. (10 Mks)
- b) Discuss the various ways in which computers can be classified. (5 Mks)
- c) Describe the components of the CPU. (5 Mks)

### **Question 4 20MARKS**

- a) What are the unique characteristics that make a computer more powerful than other manual systems. (10Mks)
- b) What are the security issues in computer usage with the advent of the Internet. (10 Mks)

### **Question 5 20MARKS**

- a) Discuss the social Implications of Information Communication Technology. (10 Mks)
- b) Briefly discuss 3 types of computer networks. (10 Mks)