



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY  
SCHOOL OF HEALTH SCIENCES**

**UNIVERSITY EXAMINATION FOR DIPLOMA IN COMMUNITY HEALTH AND  
DEVELOPMENT**

**1STYEAR 1ST SEMESTER 2016/2017 ACADEMIC YEAR**

**UNIT CODE: SCS 2111**

**UNIT TITLE: INTRODUCTION TO COMPUTER APPLICATIONS**

**EXAM VENUE:**

**STREAM: (Dip.com.hlth )**

**DATE:**

**EXAM SESSION:**

**TIME: 1.5 HOURS**

**Instructions:**

- **Answer Question ONE (COMPULSORY) and ANY other 2 questions**
- **Candidates are advised not to write on the question paper.**
- **Candidates must hand in their answer booklets to the invigilator while in the examination room.**

## QUESTION ONE

- a. What does **C.P.U.** stand for? 2marks)
- b. Faith is a music student. She needs to take her files from her home computer into college. Identify a method of storage which is suitable for taking her music files into college. State why this method is suitable. (4mks)
- c. Ali's new computer uses a single-user, multi-tasking operating system. What is a **single-user** operating system? (2mks)  
What is a **multi-tasking** operating system? (2mks)  
Ali wants to know which utility programs he will need to keep his computer secure and running smoothly. Discuss the utility programs Ali will need, justifying why he needs them.(4mks)  
Name *two* devices that can be used for input only, *and* describe a suitable use for each.(4mks)
- d. Name *two* devices that can be used for output only, *and* describe a suitable use for each.(4mks)
- e. What is the name of the most popular Operating System? (2 marks)
- f. Name three unique mechanisms of the mouse that help it work. (3 marks)
- g. What is a spreadsheet? Give an example of when you would use a spreadsheet. (3marks)

## QUESTION TWO

- a. Define the term software (2mks)
- b. System software can be classified into three broad categories. Briefly describe each of these categories (5mks)
- c. Why is it necessary for one to have an operating system installed on their micro-computers? (4mks)
- d. Outline three major differences between a Minicomputer and a Microcomputer. Make sure that your answer specifies three *different* things (4mks)

### QUESTION THREE

- a. Outline the functions of operating system (3mks)
- b. Discuss the following types of operating systems (4mks)  
Multiprocessing operating system  
Multitasking operating system  
Multiuser operating system
- c. What is a word processor? Give an example of when you would use a word processor. (3marks)
- d. What is a data base? Give an example of when you would use a data base. (3 mark)
- e. Which is more important, Software or Hardware giving reasons? (2mks)

### QUESTION FOUR

- a. Define the term computer virus (2mks)
- b. Briefly describe any four sources of computer viruses (4mks)
- c. What are some of the effects of computer viruses on a computer system? (4mks)
- d. List the symptoms of a virus infected computer system (5mks)

### QUESTION FIVE

- a. Differentiate between cold boot and warm boot (2mks)
- b. Outline the three types of computer software's (4mks)
- c. Mary's computer has an 800MHz CPU and 1GB of RAM.
  - i. Describe the purpose of the CPU. (2mks)
  - ii. Mary wants to upgrade this computer so that she can play the latest games. Explain two ways by which the computer can be upgraded to improve its performance. (3mks)
  - iii. A computer shop tells Mary that she would be better off buying a new computer, than upgrading the computer that she already has. However, Mary wants to consider the environmental impact as well as the cost. Discuss the advantages and disadvantages of

buying a new computer instead of upgrading and advise Mary on what she should do.  
You should focus on the environmental impact and the cost. (4mks)