



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF EDUCATION
SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS
DEPARTMENT OF INFORMATION SYSTEMS AND TECHNOLOGY
UNIVERSITY EXAMINATION FOR THE DIPLOMA IN COMMUNITY HEALTH
AND DEVELOPMENT.
1ST YEAR 1ST SEMESTER 2017 / 2018 ACADEMIC YEAR
MAIN CAMPUS**

COURSE CODE: SCS 2111

COURSE TITLE: INTRODUCTION TO COMPUTER APPLICATIONS

EXAM VENUE: LAB 14

STREAM: Dip CH&D

DATE: 22/12/2017

EXAM SESSION: 2.00-4.00PM

TIME: 2.00 HOURS

INSTRUCTIONS:

- 1. Answer Question 1 (Compulsory) and ANY other two 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 1 [30 MARKS]

- a) Distinguish the following computer terms (4 marks)
 - i. Softcopy & Hardcopy
 - ii. Hardware and software
- b) A computer is a multipurpose electronic device that can receive, store, process data and deliver information. Outline five functions carried out by digital computer (5 Marks)
- c) What is Utility software? Outline four examples of utility software (6 Marks)
- d) What is the central processing unit of a computer? Why is it so important to the operation of the computer? (5 marks)
- e) Outline FOUR examples of Input devices (4 marks)
- f) Explain, with reasons, two disadvantages of using the ring topology in a computer network. (4 marks)
- g) Outline two steps used in Retrieving deleted files (2 marks)

QUESTION 2 [20 MARKS]

- a) Computer technology has changed the ways in which teenagers interact with each other. Explain how developments in software and hardware have enabled new methods of communication among teenagers. (6marks)
- b) The accident & emergency department of a hospital uses a computer system to decide the order in which patients are treated. Describe the advantages of using a computer system instead of a person to decide the order, and the need for this system to be reliable.(6marks)
- c) A system is a combination of several components brought together to achieve a given objective. Discuss the **FOUR** elements of a Computer Systems (8 marks)

QUESTION 3 [20 MARKS]

- a) Define Operating System and list any **SIX** functions of an operating system(8 marks)
- b) define the term spreadsheet and outline any two application areas of spreadsheet (4marks)
- c) Differentiate between Workbook and Worksheet (4marks)
- d) Outline Some of the excel formulae using example (4marks)

QUESTION 4 [20 MARKS]

- a) Bondo Sub-County Hospital has been advised by a strategic specialist to purchase computers and enforce their utilization in their daily operations. you have been invited to the internal strategic committee to deliberate on the next move;
 - i. Outline two advantages and two disadvantages of computers that they are likely to experience. (4mks)
 - ii. Explain two network topologies that the organization can implement (4mks)
 - iii. Describe three different computer system security threats that they are likely to encounter (6mks)
 - iv. Discuss three preferable mechanisms they should consider to counter the envisioned threats (6mks)

QUESTION 5 [20 MARKS]

- a) What are some of the health problems associated with computing (6Marks)
- b) 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)

c) Cite at least eight benefits of the internet in health

(4 Marks)