



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND
TECHNOLOGY
(Kisii Learning center)**

**SCS 2124: INFORMATION TECHNOLOGY AND SOCIETY
CERTIFICATE/DIPLOMA IN COMMUNITY HEALTH & DEVELOPMENT
YEAR1, SEMESTER 2, 2013/2014**

INSTRUCTIONS:

1. Answer Question 1 and any other two questions.

Q1. a) Briefly define the following terms

- | | |
|-----------------|-----------|
| i) Data | (2marks) |
| ii) Information | (2 marks) |
| iii) Hardware | (2 marks) |
| iv) Translator | (2 marks) |
| v) Compiler | (2 marks) |

b) Write True or False for the following:

- | | |
|---|---------|
| i. Operating System (OS) is an Application Software. | (1mark) |
| ii. Compiler converts high level languages into machine language. | (1mark) |

- c) The process of producing results from the data for getting useful information is called _____ (1mark)
- d) What is a utility program? (2marks)
- e) Give five examples of utility programs. (5marks)
- f) What is Application software? (2marks)
- g) Application software can be classified in different categories. State and define briefly these categories. (4marks)
- f) Who are computer users? (2marks)
- g) Give two examples of computer professionals. (2marks)
- Q2. a) What is a *computer*? (2marks)
- b) Draw a block diagram to illustrate the four main building blocks in a computer's functioning system and explain briefly the functions of various units or block. (8marks)
- c) What are the five basic operations performed by the computer? (5marks)
- Q3. a) Define the term *Software* (2marks)
- b) What are the advantages and disadvantages of using Custom-Written Software? (6marks)
- c) State and clearly explain **any three** computer classification categories. (7marks)
- Q4. a) What is a *network*? (2marks)
- c) Outline the differences between LAN and WAN (4marks)
- d) Using clear diagrams explain the three LAN topologies (9marks)
- Q5. a) Define the term *Telemedicine* (2marks)
- b) How can *Telemedicine* be used in society today? (5marks)

- c) What are the advantages of *e-learning*? (3marks)
- d) Elaborate some of the ethical and social issues raised by *e-learning*. (5marks)