KISII UNIVERSITY

UNIVERSITY EXAMINATIONS
FIRST YEAR EXAMINATION FOR THE AWARD OF CERTIFICATE IN INFORMATION TECHNOLOGY
FIRST SEMESTER, 2023/2024

(AUGUST-DECEMBER, 2023)
CIT 0105: FUNDAMENTALS OF ICT

STREAM: Y1 S1   **TIME: 2 HOURS**
DAY: FRIDAY, 12.00 – 3.00 PM   **DATE: 01/12/23**

INSTRUCTIONS
1. *Do not write anything on this question paper.*
2. *Answer Question ONE [Compulsory] and any other TWO Questions*

QUESTION 1
a) Define the following terms   10 marks

    i. Computer
    ii. Information systems
    iii. Data
    iv. Information
    v. Prototype

b) Compare and contrast management information systems with decision support systems.
    4 marks

c) Describe the characteristics of useful information   4 marks

d) Explain the difference between RAM and ROM.   4 marks

e) Write brief notes on the following: 8 marks
    i. A Data Warehouse
    ii. An Expert System
    iii. A Spreadsheet

QUESTION 2
a) Describe ways in which a company can acquire information systems   10 marks

b) With a diagram discuss the Software Development Life Cycle (SDLC)   10 Marks

QUESTION 3

   a) Define the Moores LAW   3marks

   b) Describe how information flows within a typical organization, identifying the types of information and the systems most appropriate to provide that information. Give an example of each level of information   10marks.

   c) What are the benefits of implementing a proper management information system   7marks

QUESTION 4

   a) Information system play a key role in the growth and success of an organization state some of the roles of information system.   10 marks.

   b) Describe five technology and business trends that have enhanced the role of information systems in today's competitive business environment.   10 marks

QUESTION 5

a) Describe the various ways a company should or ought to do to secure their Information systems   8 marks

b) What are the various components of an information system   12 marks