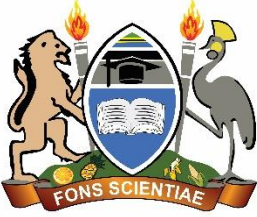


DIT 0100



KISII UNIVERSITY
UNIVERSITY EXAMINATIONS

**FIRST YEAR EXAMINATION FOR THE AWARD OF THE DIPLOMA IN
INFORMAITON TECHNOLOGY**

FIRST SEMESTER 2023/2024
[JAN – APRIL, 2024]

DIT 0100: INTRODUCTION TO INFORMATION TECHNOLOGY

STREAM: Y1 S1

TIME: 2 HOURS

DAY: MONDAY, 9:00 - 11:00 A.M.

DATE: 22/04/2024

INSTRUCTIONS

- 1. Do not write anything on this question paper.***
- 2. Answer question ONE (Compulsory) and any other TWO questions.***

QUESTION ONE

- Explain the following terms (4 marks)
 - Compiler
 - Assembler
- Provide four instances of secondary storage. (2 marks)
- Elaborate on the distinctions between RAM and ROM. (4 marks)
- Delve into five key features of a computer. (10 marks)
- Clarify five benefits of utilizing computers. (10 marks)

QUESTION TWO

- Explore five functions of a computer. (10 marks)

- b. Categorize and elucidate the five components of human cognitive content.
(10 marks)

QUESTION THREE

- a. You are explaining the concept of a motherboard to someone unfamiliar with computers. Provide a concise definition. (2 marks)
- b. Envision you are giving a detailed presentation on motherboards. Elaborate on four key characteristics, incorporating real-world scenarios for better understanding. (8 marks)
- c. As an IT expert, you are educating others about computer viruses in a practical setting. Discuss various categories of computer viruses, emphasizing their potential impact and how users may encounter them. (10 marks)

QUESTION FOUR

- a. Imagine you are dealing with computer data storage in a real-world scenario. Discuss the various Units of storage, considering practical applications. (10 marks)
- b. Dive into the world of networks as if you are facing specific scenarios. Provide detailed explanations of five network types, highlighting how each would be applied in various real-life situations. (10 marks)

QUESTION FIVE

- a. You are explaining the CPU to a friend who is curious about computers. Name and provide detailed explanations for the three main parts of the CPU. (6 marks)
- b. As an expert, you are guiding a colleague through the process of compiling code. Discuss the step-by-step compiling process in a scenario, emphasizing practical aspects and potential challenges. (10 marks)
- c. Imagine you are introducing the concept of an Operating System to a non-technical audience. Define an Operating System and offer examples, using real-world scenarios to illustrate their role. (4 marks)