



## UNIVERSITY EXAMINATIONS

FIRST YEAR EXAMINATION FOR THE AWARD OF THE

DIPLOMA IN INFORMATION TECHNOLOGY

FIRST SEMESTER, 2023/2024

(AUGUST-DECEMBER, 2023)

DIT 0100: INTRODUCTION TO INFORMATION TECHNOLOGY

**STREAM: Y1 S1**

**TIME: 2 HOURS**

**DAY: TUESDAY, 12.00 -2:00 PM**

**DATE: 28/11/2023**

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### INSTRUCTIONS

**1. Do not write anything on this question paper.**

**Answer Question ONE [Compulsory] and any other TWO Questions**

#### **Question one [30 marks]**

1. Briefly discuss the following terms:
  - a. Information and communication technology (2 marks)
  - b. Computer system (2 marks)
  - c. Computer hardware (2 marks)
  - d. Computer software (2 marks)
  - e. Input device (2 marks)
2. Discuss the three elements of a computer system (9 marks)
3. Computer hardware refers to all the physical components of a computer; outline the five components that constitute computer hardware (5 marks)
4. Briefly explain the following terminologies
  - a. Computer network (3marks)
  - b. Network topology (3marks)

**Question two [20 marks]**

1. Differentiate between the following:
  - a. Synchronous and asynchronous transmissions (2 marks)
  - b. RAM and ROM (2 marks)
  - c. Routable and non-routable protocols (2 marks)
  - d. Half duplex and full duplex (2 marks)
  - e. Simplex and Duplex (2 marks)
  - f. Packet and frame (2 marks)
2. Discuss impacts of ICT on health sector (8 marks)

**Question three [20 marks]**

- a) There have been different advancements of computer technology, elaborate the four generations of computers (12 marks)
- b) What are the features of an email? Outline any four of the features (8 marks)

**Question four [20 marks]**

1. Discuss the various services of the internet (10 marks)
2. What are the basic objectives of File Transfer Protocol? Outline four of the objectives (8 marks)
3. What do you understand by the term website? (2 marks)

**Question five [20 marks]**

1. Define the following terminologies
  - a. Internet (3 marks)
  - b. Protocols (3 marks)
  - c. Intranet (3 marks)
  - d. Modem (3 marks)
2. Discuss the types of information systems (8 marks)