# UGANDA BUSINESS AND TECHNICAL EXAMINATIONS BOARD

## Business and Humanities Certificate Examinations

## NOV-DEC 2023 SERIES

**PROGRAMME**

NATIONAL CERTIFICATE IN COMPUTER INFORMATION AND COMMUNICATION

**PAPER NAME**

FUNDAMENTALS OF INFORMATION TECHNOLOGY

**PAPER CODE**

NCIT111

YEAR I, SEMESTER I

**2½ HOURS**

**MONDAY, 4TH DECEMBER, 2023**

## INSTRUCTIONS TO CANDIDATES

1. *This paper consists of **two** sections **A** and **B.***
2. *Section **A** is compulsory and carries **20** marks.*
3. *Section **B** consists of **six** questions. Answer only **four** questions from this section.*
4. *All questions carry equal marks*
5. *Begin each answer on a fresh page.*
6. ***Do not** write on the question paper.*
7. *All answers and rough work should be written in the official answer booklet provided.*
8. *Read other instructions on the answer booklet.*

© 2023 Uganda Business and Technical Examinations Board.

## SECTION A - (20 MARKS)

**Answer all questions in this section**

### Question One

(a) Define the term **booting**. starting a computer and getting it ready for use (02 marks)

(b) List **two** factors to consider when buying a computer. (02 marks)

(c) Define the term **Internet**. (storage of the computer) global network of interconnected computers and servers to communicate to each other and share resources (02 marks)

(d) State **two** examples of peripheral devices in a computer. (02 marks)
mouse, keyboard, usb, flash.

(e) Explain the use of the following keyboard shortcut keys;

(i) Ctrl + A. → used to select and highlight the document. (02 marks)

(ii) Ctrl + P. → this is command button for printing out something (02 marks)

(f) State **two** examples of computer hardware components. (02 marks)
hard disk drive, motherboard, Ram chips

(g) Explain **two** types of data backups. (04 marks)
local backup, full backup, Hybrid back up and cloud back up. (02 marks)

(h) Identify **two** examples of storage devices.
hard disk
flash

## SECTION B - (80 MARKS)

**Answer only four questions from this section.**

### Question Two

(a) Differentiate between **system unit** and **central processing unit**. 20 (04 marks)
system unit is the outer of the case that houses all computer components while CPU is the component within the system unit that executes instructions and performs calculations.

(b) Write in full;

(i) UPS – Uninterruptible power supply. (02 marks)

(ii) ALU – Arithmetic logic unit. (02 marks)

(iii) CPU - Control processing unit (02 marks)

(iv) BIOS - Basic input / out-put (02 marks)

(v) RAM – Random Access Memory. (02 marks)

(c) Give **three** importance of RAM to a computer system. (06 marks)
① Temporarily stores data for quick access by the CPU ② for smoother multitasking
③ Enhance system performance and speed and running multiple applications.
④ Improves overall system responsiveness and efficiency.

### Question Three

(a) Differentiate between **WAN** and **LAN**. 20 (04 marks)
WAN → network that works in large area like cities or countries while LAN is a network that covers small area like office.

(b) Explain **four** advantages of internet to the society. (08 marks)
for first time installation after training tutorials, for communication, for shopping ie online shopping and entertainment

(c) State **four** disadvantages of Internet to the society. (08 marks)
overdepending on internet (technology) hence lowering the thing of a person.
Some times internet offer wrong information via social media like tiktok for children
Pornography on internet which led to spoiling the little ones.
Cyber attacks on internet like social media eg.
No privacy on internet like facebook where every one can get your personal information when needed.

## Question Four

(a) State the difference between **CRT** and **LCD** monitor. (04 marks)

(b) Explain **four** advantages of **LCDs** over **CRT** monitors. (08 marks)

(c) Discuss **four** ways of safe guarding computers systems. (08 marks)

## Question Five

Annah bought a computer system and on reaching her home, she could not use it for any work. Upon consultation with you, she realized the input and output devices were faulty and required replacement.

(a) Distinguish between **output** and **input** devices. (04 marks)

(b) *Explain* **three** *devices that she should buy.* (06 marks)

(c) Discuss **five** precautions that she should take to maintain these devices in proper functioning order. (10 marks)

## Question Six

(a) Identify **four** ways of taking good care of a computer laboratory. (04 marks)

(b) List **three** computer components that can easily be stolen. (03 marks)

(c) State **three** ways of preventing theft of components listed in 6(b). (03 marks)

(d) Explain **five** rules and regulations to be followed when using a computer laboratory. (10 marks)

## Question Seven

(a) Distinguish between **Data** and **Information**. (04 marks)

(b) Explain **four** qualities of good information. (08 marks)

(c) Discuss **four** different stages of the Information processing cycle. (08 marks)

**END**