Candidate's name: ....

Signature: ....

	Random No.			Personal No.	

(Do not write your School/Centre name or Number anywhere on this booklet.)

S850/1
Subsidiary Information
and Communication
Technology (ICT)
Paper 1
Nov./Dec. 2023
2½ hours

UGANDA NATIONAL EXAMINATIONS BOARD
Uganda Advanced Certificate of Education
SUBSIDIARY ICT
Paper 1
2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

The paper is made up of **twenty** *equally weighted questions.*

Answer **all** *the questions in this paper.*

All the answers should be written in **blue** *or* **black** *ink in the spaces provided in the question paper.*

Questions	For Examiners' Use Only	
	Marks	Initials
1 - 2		
3 - 4		
5 - 6		
7 - 8		
9 - 10		
11 - 12		
13 - 14		
15 - 16		
17 - 18		
19 - 20		
Total		

Turn Over

*Answer **all** the questions in this paper.*

1. (a) Distinguish between **analog** and **digital** computing devices.

   (02 marks)

   ....

   ....

   ....

   (b) List **three** advantages of digital computing devices.   *(03 marks)*

   (i) ....

   ....

   (ii) ....

   ....

   (iii) ....

   ....

2. (a) State **two** possible causes of fire outbreaks in a computer laboratory.

   (02 marks)

   (i) ....

   ....

   (ii) ....

   ....

   (b) Outline **three** measures a school should put in place to have a secure computer laboratory.   *(03 marks)*

   (i) ....

   ....

   (ii) ....

   ....

   (iii) ....

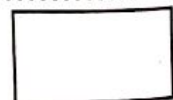   ....

3. Use the following terms to complete the statements in (a) – (e):

- Diagonistic Utility   - Screen Saver
- WinZip   - Defragmenter
- Backup Utility   - Uninstaller   (*05 marks*)

(a) The utility that automatically displays a moving image or pattern on the monitor when the computer is idle is called…………………………

(b) The utility that is used to remove a software from a computer system is called……………………………………………...………………

(c) The utility that compresses files so that they can be stored or distributed more efficiently is ………………………………...………………..

(d) The utility that rearranges files stored on a disk to occupy contiguous storage locations is……………………………………………………….

(e) The application used to create a duplicate copy of data to safeguard it and enable recovery in the event it is lost is a …………………………..

4. (a) Describe an optical storage device.   (*02 marks*)

....

....

....

(b) Give **three** advantages of using a flash disk over a compact disc.   (*03 marks*)

(i) ....

....

(ii) ....

....

(iii) ....

....

Turn Over

5. (a) Define **system software** as used in computers. (*02 marks*)

....
....
....

(b) List **three** types of system software. (*03 marks*)

(i) ....

(ii) ....

(iii) ....

6. (a) State the importance of each of the following devices to a banking institution:

(i) Closed Circuit Television (CCTV). (*01 mark*)

....
....

(ii) Magnetic Ink Character Reader (MICR). (*01 mark*)

....
....

(b) Identify **three** computerised methods that banks are employing to reduce on time wastage. (*03 marks*)

(i) ....

(ii) ....

(iii) ....

7. (a) Select from **A** and **B** the print orientation **Portrait** .... (*01 mark*)

A

B

ICT
IS VERY
USEFUL

ICT IS VERY
USEFUL

4

(b) Explain the following print options:

(i) **Set as default printer.** *(02 marks)*

....

....

....

(ii) **Current page.** *(02 marks)*

....

....

....

8. Use the options below to complete the statements that follow.

- VGA port   - Ethernet port

- Fire wire port   - Parallel port

- PS/2 port   *(05 marks)*

(a) The port that connects a network cable to a computer is

....

(b) The port that transfers large amounts of data at a very fast speed is

....

(c) A printer port can be referred to as ....

(d) The port that connects a monitor to a system unit is ....

(e) Another name for a mouse port is ....

9. (a) (i) Explain the term **Software Suite.** *(02 marks)*

....

....

....

(ii) Give **one** example of a Software Suite. *(01 mark)*

....

(b) Outline **two** advantages of off-the-shelf software. *(02 marks)*

(i) ....

....

(ii) ....

....

10. (a) Write **two** protocols that facilitate the process of sending and receiving emails. (*02 marks*)

(i) ....

(ii) ....

(b) Give **three** reasons why you would prefer using email to the traditional postal service. (*03 marks*)

(i) ....

....

(ii) ....

....

(iii) ....

..
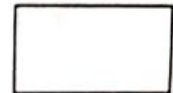
11. Select an option from the given table that describes each of the processor components (a) – (e).

OPTION	DESCRIPTION
I	Fetches, decodes and executes instructions.
II	Performs arithmetic and logical operations on data.
III	Special temporary storage locations within the CPU that quickly accept, store and transfer data and instructions that are being used immediately.
IV	Electronic pathway that transfers information/instructions.
V	Sets the speed with which a computer performs operations.
VI	Is a system that performs programmatic calculations.
VII	Temporary holding area for data which is currently subject to repeated access.

(a) Clock rate .... (*01 mark*)

(b) Cache .... (*01 mark*)

(c) Data bus .... (*01 mark*)

(d) Control unit .... (*01 mark*)

(e) Register .... (*01 mark*)

CamScanner

12. State the **five** elements of data communication. (*05 marks*)

(a) ....

(b) ....

(c) ....

(d) ....

(e) ....
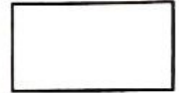
13. (a) Explain the term **digital forensics**. (*02 marks*)

....

....

....

(b) Outline any **three** limitations of digital forensics. (*03 marks*)

(i) ....

....

(ii) ....

....

(iii) ....

....

14. (a) State the function of language processors. (*01 mark*)

....

....

(b) Write any **two** examples of high level programming languages. (*02 marks*)

(i)...

(ii) ....

(c) Give any **two** advantages of using high level programming languages.

(i) ....

....

(ii) ....

....

Turn Over

CamScanner

15. (a) Explain the concept of **Cloud Computing.** *(02 marks)*

....

....

....

(b) Give **three** merits of Cloud Computing. *(03 marks)*

(i) ....

....

(ii) ....

....

(iii) ....

....

16. (a) State any **three** network attacks. *(03 marks)*

(i) ....

(ii) ....
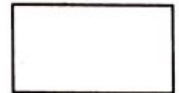
(iii) ....

(b) Outline ways of protecting the network against any **two** of the attacks you have stated in (a). *(02 marks)*

(i) ....

....

(ii) ....

....

17. (a) Identify any **one** transmission media that is used in wired networks. *(01 mark)*

....

(b) Explain the following terms as used in data communication and networking:

(i) **Line of Sight.** *(02 marks)*

....

....

....

(ii)   **Attenuation.**   *(02 marks)*

....

....

....

18. (a)   Name any **one** type of text alignment in a document.   *(01 mark)*

....

(b)   Describe the following features as used in word processing:

(i)   **Word Wrap.**   *(02 marks)*

....

....

....

(ii)   **Mail merge.**   *(02 marks)*

....

....

....
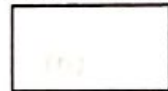
19. (a)   Define a computer network.   *(02 marks)*

....

....

(b)   Give any **three** benefits of a computer network.   *(03 marks)*

(i)   ....

....

(ii)   ....

....

(iii)   ....

....

20. The students' table below was extracted from a school database. Study it and answer the questions that follow.

STUDENTS' TABLE

STUDENT NO.	NAME	DISTRICT	TEL-CONTACT	DOB
KT-001	RUBABURA JOHN	SHEEMA	+256-778745445	12/04/1997
KT- 002	LATIM TIMOTHY	NWOYA	+256- 787866857	01/04/2002
KT - 003	SEMPA GEOFFREY	MPIGI	+256-774577887	28/06/1999
KT - 004	AMVIKO MALLET	ARUA	+256-395745564	12/04/2001

(a) Identify the appropriate primary key. *(01 mark)*

....

(b) Suggest the data type that should be used for the **TEL-CONTACT** field. *(01 mark)*

....

(c) Give **one** reason for setting up suitable data types. *(01 mark)*

....

(d) Write a statement that would return all names of students born after 01/01/2000. *(02 marks)*

....

END