Candidate's Name: ………………………………………………………………………………

Signature:…………………………………………………..

	Random No.	Personal No.

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

S850/1
SUBSIDIARY ICT
Paper 1
(Theory)
Nov./Dec. 2024
2½ hours

UGANDA NATIONAL EXAMINATIONS BOARD

Uganda Advanced Certificate of Education

SUBSIDIARY INFORMATION AND COMMUNICATIONS TECHNOLOGY

Paper 1
(Theory)

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

This paper consists of **twenty** *questions.*

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

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

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** questions in this paper.*

1. (a) Differentiate between **data** and **information**.   (*02 marks*)

....

....

....

(b) For each of the items in the table below, indicate whether it is **data** or **information**.   (*03 marks*)

Item		Data/ information
(i)	Family budget	
(ii)	Students' test scores in various subjects in a mid-term test	
(iii)	Performance analysis graphs	

2. (a) Name the **two** print orientations for a document.   (*02 marks*)

(i) ....

(ii) ....

(b) Identify **three** possible causes of a printer failing to print a document.   (*03 marks*)

(i) ....

....

(ii) ....

....

(iii) ....

....

3. (a) Give **two** functions of arrow keys on a keyboard. *(02 marks)*

(i) ....

....

....

(ii) ....

....

....

(b) State the type of data input by the following devices. *(03 marks)*

(i) Scanner ....

(ii) Keyboard ....

(iii) Microphone ....

4. (a) Explain why the **Shut Down** option is used when turning off a computer system. *(02 marks)*

....

....

....

(b) Describe how the **Restart** option of the Shut Down menu functions. *(02 marks)*

....

....

....

(c) Give the advantage of switching the computer into the **Sleep mode**. *(01 mark)*

....

....

Turn Over
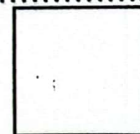
5. (a) Distinguish between multi-user and multitasking operating systems software.   (02 marks)

....

....

....

    (b) State **three** examples of Multi-user operating systems.   (03 marks)

    (i) ....

    (ii) ....

    (iii) ....

6. (a) Give any **three** requirements for connecting a computer to the Internet.   (03 marks)

    (i) ....

    ....

    ....

    (ii) ....

    ....

    ....

    (iii) ....

    ....

    ....

    (b) Outline **two** disadvantages of using the Internet.   (02 marks)

    (i) ....

    (ii) ....
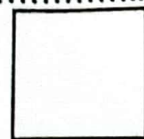
7. (a) Explain how the following network models operate:

    (i) **Peer to peer.** (*02 marks*)

    ....

    ....

    ....

    ....

    (ii) **Client server.** (*02 marks*)

    ....

    ....

    ....

(b) Suggest **one** device that uses the simplex mode of communication. (*01 mark*)

....

8. (a) What is an ICT innovation? (*02 marks*)

    ....

    ....

    ....

    ....

(b) Suggest any **two** areas where ICT innovation is applied. (*02 marks*)

    (i) ....

    (ii) ....

(c) Give **one** example of an ICT innovation in one of the areas you have suggested in (b). (*01mark*)

....

Turn Over

9. (a) Describe the use of each of the following tools in presentation software.

    (i)   **Place holder.**   (*02 marks*)

    ....

    ....

    ....

    ....

    (ii) **Animation.**   (*02 marks*)

    ....

    ....

    ....

    (b) State **one** area where electronic presentation may be utilised.   (*01 mark*)

    ....

10. (a) Define the term **Green Computing.**   (*02 marks*)

    ....

    ....

    ....

    (b) Outline any **three** ways of implementing green computing. (*03 marks*)

    (i)   ....

    ....

    (ii) ....

    ....

    (iii) ....

    ....

11. The following table shows files which have been saved on a flash disk.

File Name	File Extension	Size (MB)	Date Modified
Alululu	.mp3	50	23/04/2018
Aleluya	.jpeg	145	04/05/2018
Twist	.xls	05	13/05/2018

The space unused on the flash disk is 0.3 GB.

(a) Give the possible content of the file that was modified on 04/05/2018.
(01 mark)

....

(b) Calculate the maximum capacity in MBs of the flash disk. (02 marks)

....

....

(c) Suggest **two** ways that can be used to create more space on this flash disk. (02 marks)

(i) ....

....

(ii) ....

....

12. (a) Outline **two** advantages of primary storage over secondary storage devices. (02 marks)

(i) ....

....

....

(ii) ....

....

....
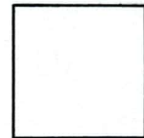
Turn Over

(b)   Give any **two** types of secondary storage devices and **one** example of primary storage devices.

     (i)   Secondary storage devices.   *(02 marks)*

        ....

        ....

     (i)   Primary storage device.   *(01 mark)*

        ....

        ....

13.   (a)   A software that is distributed at no monetary cost at all is referred to as
                                                                                                                           (01 mark)

        ....

   (b)   Suggest **two** ways in which each of the following parties benefits from the shareware software.

     (i)   Enduser.   *(02 marks)*

        ....

        ....

        ....

        ....

     (ii)   Shareware software developer.   *(02 marks)*

        ....

        ....

        ....

        ....

14. **(a)** State any **two** factors considered when selecting data communication media. *(02 marks)*

(i) ....

....

(ii) ....

....

(b) Explain **bluetooth** transmission medium in data communication. *(02 marks)*

....

....

....

....

(c) Give an example of a network device that converts analog to digital signals and vice versa. *(01 mark)*

....

15. **(a)** Suggest any **two** job opportunities for a candidate who has done ICT as a subject. *(02 marks)*

(i) ....

(ii) ....

(b) Write the symbols used for the following intellectual property rights. *(03 marks)*

(i) Copyright. ....

(ii) TradeMark. ....

(iii) Patent. ....

16. Select from the given list an appropriate term and fill it in the blank spaces provided for (a) to (e).

LAN, Hacking, Virus, Mouse, Firewall, Video Conferencing.

(a) A tool that enables people in different geographical regions to hold a

meeting online is …………………………………………….. (*01 mark*)

(b) A malicious program that disorganises the normal working of a

computer is called a ……………………………………. (*01 mark*)

(c) Computers linked together in a small geographical boundary form a

………………………………………………………….. (*01 mark*)

(d) A computer crime that may result in loss of data and information is

referred to as …………………………………………. (*01 mark*)

(e) A network security system that controls incoming and outgoing traffic

is called ……………………………………………… (*01 mark*)

17. (a) Explain the purpose of an address bus in a computer. (*02 marks*)

………………………………………………………………………………

………………………………………………………………………………

………………………………………………………………………………

………………………………………………………………………………

(b) State **one** function of a processor. (*01 mark*)

………………………………………………………………………………

………………………………………………………………………………

(c)   List any **two** components of processors.   *(02 marks)*

   (i)   ....

   (ii)   ....

18. (a)   (i)   What is a Search Engine?   *(02 marks)*

....

....

....

....

   (ii)   Name **one** example of a Search Engine.   *(01 mark)*

....

(b)   State the importance of the following signs in searching for a website.

   (i)   Plus (+) sign.   *(01 mark)*

....

   (ii)   Double quotation marks (" ").   *(01 mark)*

....

19. Select appropriate terms from the list below and complete the statements (a) to (d).

- **Interpreter** - **DOS** - **Compiler**
- **NOS** - **Buffering** - **Disk defragmenter**
- **WinZip** - **PASCAL**

(a) An example of an operating system with a command line interface is

.... *(01 mark)*

(b) One of the memory management functions of the Operating System

Software is .... *(01 mark)*

(c) The **two** examples of a language processor are *(02 marks)*

(i) ....

(ii) ....

(d) A tool that can be used to compress files is.................... *(01 mark)*

20. (a) List **three** features that make desktop publishing software ideal for specialised publications. *(03 marks)*

(i) ....

(ii) ....

(iii) ....

(b) Give **two** outputs of desktop publishing software. *(02 marks)*

(i) ....

(ii) ....