Candidate's Name: ....

Signature: ....

(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. 2022
2½ hours

UGANDA NATIONAL EXAMINATIONS BOARD

Uganda Advanced Certificate of Education

SUBSIDIARY ICT

Paper 1

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

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

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

All 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		

© 2022 Uganda National Examinations Board   **Turn Over**

1. (a) Define a computer system. *(02 marks)*

....

....

(b) List **three** examples of portable computing devices. *(03 marks)*

(i) ....

(ii) ....

(iii) ....

2. The properties of a folder are given below:

Type	:	File folder
Location	:	C:\User\Student1\Desktop
Size of the folder	:	3.15MB
Size of the disk	:	3.17MB
Contains	:	7 files

(a) State the storage medium for the folder. *(01 mark)*

....

(b) Convert the size of the folder to bytes. *(02 marks)*

....

....

(c) Identify the subfolder where the files are located. *(01 mark)*

....

(d) Write the path of the folder. *(01 mark)*

....

3. (a) State any **three** qualities of a good printer. (03 marks)

(i) ....

(ii) ....

(iii) ....

(b) Give **one** use of each of the following devices:

(i) Projector. (01 mark)

....

....

(ii) Speaker. (01 mark)

....

....

4. Indicate **TRUE** or **FALSE** for each of the following security measures in a computer laboratory. (05 marks)

	SECURITY MEASURE IN THE COMPUTER LABORATORY	TRUE/ FALSE
(a)	Computer laboratory equipment should be regularly cleaned with spirit-based cleaning reagent.	
(b)	A surveillance camera protects computer laboratory assets from theft.	
(c)	Uninterruptible Power Supply unit reduces the A.C. voltage to a lower D.C. voltage.	
(d)	Water based fire extinguishers are the best for putting out fire in a computer laboratory.	
(e)	An air conditioner regulates the computer laboratory room temperature.	

Turn Over

5. (a) Distinguish between **System Software** and **Application Software**.
(02 marks)

....

....

....

....

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

(i) ....

(ii) ....

(iii) ....

6. (a) Explain the term **Netiquette** as used in Internet.
(02 marks)

....

....

....

(b) Outline any **three** netiquettes of Internet.
(03 marks)

(i) ....

....

(ii) ....

....

(iii) ....

....
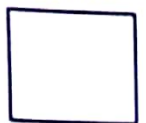
7. (a) Write **BIOS** in full. (01 mark)

....

    (b) Explain the following booting processes:

         (i) Cold booting. (02 marks)

....

....

....

         (ii) Warm booting. (02 marks)

....

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....

....

8. (a) Name **one** example of a word processor. (01 mark)

....

    (b) Explain the following views in a word processor:

         (i) Print Layout. (02 marks)

....

....

....

....

         (ii) Read/fullscreen mode. (02 marks)

....

....

....

....

Turn Over

9. (a) Differentiate a **repeater** from a **switch** as basic networking devices. *(02 marks)*

....

....

....

....

(b) Outline **three** factors an organization should consider in order to have a Local Area Network. *(03 marks)*

(i) ....

(ii) ....

(iii) ....

10. (a) Explain the term **E-learning**. *(02 marks)*

....

....

....

(b) Give **three** reasons for the increasing e-learning facilities in educational institutions. *(03 marks)*

(i) ....

....

(ii) ....

....

(iii) ....

....

11. (a) Define the term **information security**. (*01 mark*)

....

....

(b) Describe any **two** ways of ensuring data and information security.

(*04 marks*)

....

....

....

....

12. (a) Identify the following secondary storage devices. (*03 marks*)

Storage Device	Name of the device

(b) Outline **two** advantages of secondary storage devices. (*02 marks*)

(i) ....

(ii) ....

Turn Over

13. (a) Explain the use of each of the software below:

   (i) Device Drivers. *(02 marks)*

   ....

   ....

   ....

   ....

   ....

   (ii) Screen Savers. *(02 marks)*

   ....

   ....

   ....

   ....

   ....

   (b) Name **one** example of an antivirus software. *(01 mark)*

   ....

14. (a) Write **Bcc** in full. *(01 mark)*

   ....

   (b) Describe how you can use email services to do the following:

   (i) Send a file from a storage device. *(02 marks)*

   ....

   ....

   ....

   ....

(ii) Send an email message you received to another person.

(02 marks)

....

....

....

....

....

15. (a) Explain the concept of **Artificial Intelligence**.

(02 marks)

....

....

....

....

(b) State **three** ways in which one can use the Global Positioning System (GPS).

(03 marks)

(i) ....

....

(ii) ....

....

(iii) ....

....

16. (a) Explain the following terms as used in databases:

(02 marks)

(i) Primary key.

....

....

....

....

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(ii) Record.

....

....

....

....

(b) Give **one** example of a database object. (01 mark)

....

[ ]

17. (a) Define the term **Communication Protocol** in computer networking. (02 marks)

....

....

....

(b) Give any **two** examples of Communication Protocol. (02 marks)

(i) ....

(ii) ....

(c) A network device that converts digital signals into analog and vice versa is called a .... (01 mark)

18. (a) List **three** functions of an Operating System. (03 marks)

(i) ....

....

(ii) ....

....

(iii) ....

....

(b) Give **two** basic components of a Graphical User Interface (GUI).

(*02 marks*)

....

....

....

....

19. (a) (i) What is **wireless transmission**?

(*02 marks*)

....

....

....

....

....

(ii) Give an example of wireless transmission   (*01 mark*)

....

(b) Outline **two** benefits of wireless communication.   (*02 marks*)

(i) ....

....

(ii) ....

....

20. (a) Suggest any **two** ways the speed of a computer can be improved.

(*02 marks*)

(i) ....

....

....

(ii) ....

....

....

(b) Given the following ports; *(03 marks)*
 - Serial
 - Universal Serial Bus
 - Network
 - Parallel

identify from the list, the appropriate port for each of the given uses below:

(i) The port that transmits data, a byte at a time is a

.... port.

(ii) The port that transmits data only a single bit at a time is a

.... port.

(iii) The port on a computer where the RJ – 45 connector is attached

is a .... Port.