

Candidate's name.....

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Signature

Random No.					Personal No.		

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S850/1
Subsidiary Information
and Communication
Technology
Paper 1
Nov./Dec.2022
 $2\frac{1}{2}$ 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** 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's 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		

Answer **all** questions in this paper.

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

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- (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 : 3.17 MB
Contains : 7 files

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

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

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

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- (d) Write the path for the folder. (01 mark)

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3. (a) State **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)
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- (ii) Speaker. (01 mark)
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4. Indicate **TRUE** or **FALSE** for each of the following security measures in a laboratory.

	SECURITY MEASURE IN THE COMPUTER LABORATORY	TRUE/ FALSE
(a)	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.	

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

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- (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)

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

(i)

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(ii)

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(iii)

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

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(b) Explain the following booting processes:

(i) Cold booting. (02 marks)

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(ii) Warm booting. (02 marks)

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

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

(i) Print Layout. (02 marks)

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(ii) Read /full screen mode. (02 marks)

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

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- (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)

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

(i)

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(ii)

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(iii)

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

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(b) Describe any **two** ways of ensuring data and information security. (04 marks)




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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)

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

(i) Device drivers. (02 marks)

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(ii) Screen savers. (02 marks)

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(b) Name **one** example of an anti-virus software. (01 mark)

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

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

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

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(ii) Send an email message you received to another person. (02 marks)

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15. (a) Explain the concept **Artificial Intelligence**. (02 marks)

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(b) State **three** ways in which one can use the Global Positioning System (GPS). (03 marks)

(i)

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(ii)

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(iii)

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

(i) Primary key. (02 marks)

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(ii) Record . (02 marks)

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

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

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(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)

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(ii)

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(iii)

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(b) Give **two** basic components of a Graphical User Interface (GUI). (02 marks)

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19. (a) (i) What is **wireless transmission**? (02 marks)

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

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

(i)

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(ii)

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20. (a) Suggest any **two** ways the speed of a computer can be improved. (02 marks)

(i)

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(ii)

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(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 users 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.

