

Name:personal number:.....

Signature:

S850/1
Subsidiary ICT
Paper 1
July/August, 2023
2 $\frac{1}{2}$ hours



UGANDA TEACHERS' EDUCATION CONSULT (UTEC)

Uganda Advanced Certificate of Education

SUBSIDIARY ICT

Paper 1

2 Hours 30 Minutes

INSTRUCTIONS TO CANDIDATES:

- Attempt ALL questions in this paper.
- The maximum time allocated to this paper is 2 hours and 30 minutes.
- This paper is made up of 20 compulsory and equally weighted questions.
- Write all your responses in dark blue or black ink in the spaces provided.
- All answers should be written in the spaces provided. No additional material will be provided to the candidate.
- Write your answers tidily.

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total

1. (a) Explain the term Information and Communication Technology. (02 marks)

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- (b) State three ways in which information technology has improved teaching and learning. (03 marks)

(i)

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(ii)

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(iii)

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2. Match items in *column A* with their corresponding matches in *column B*.

(05 marks)

A		B
Avast Anti-Virus		Application software
Microsoft Word		Programming tool
Unix		Utility software
Fax		Operating system
Debugger		Communication tool

3. Read the statement below and write the words **TRUE** or **FALSE** in the spaces provided. (05 marks)

STATEMENT	TRUE/FALSE
(a) 65 is 100001 in machine code/Binary code	
(b) Android is the only operating system for mobile phones in use in Uganda	
(c) You can delete the recycle bin from the desktop	
(d) A Touch screen works as both input and output mechanism	
(e) Ms. Publisher and Ms. Word can be categorized as desktop publishing software since they can be used for advertising purposes.	

4. (a) What is multitasking? (01 mark)

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(b) Give two advantages of each of the following windows Operating systems features:

(i) Icons. (02 marks)

(i)

.....
.....

(ii) Task bar (02 marks)

(i)

.....
.....

(ii)

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.....

5. (a) Name two examples of tailored application software known to you.

(02 marks)

(i)

(ii)

(b) State three problems associated with usage of an outdate computer anti-virus software installed on your computer. (03 marks)

(i)

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(ii)

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(iii)

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6. Explain the following attribute of computers which make them dependable and reliable tools.

(a) Artificial intelligence (02 marks)

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(b) Storage (02 marks)

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(c) Speed (01 marks)

7. Consider the following URL.

<https://www.newvision.co.ug/news>

(a) Write https and www in full
https.....
www.....

(b) Use the above URL to State (03 marks)

(i) Domain name

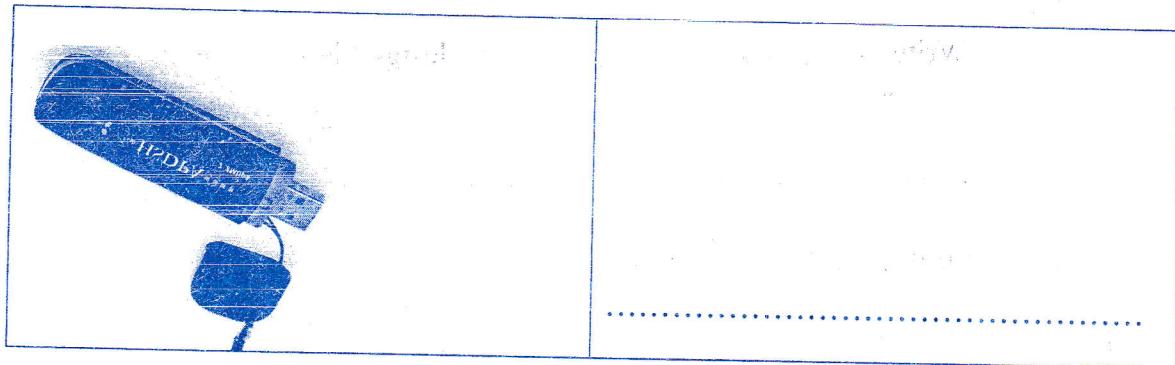
(ii) Low level domain

(iii) High level domain.....

8. (a) Identify the following Networking devices. (03 marks)

DEVICE	NAME





- (b) Give two factors you would consider when setting up a Local Area Network.
(02 marks)

- (i)
-
- (ii)
-

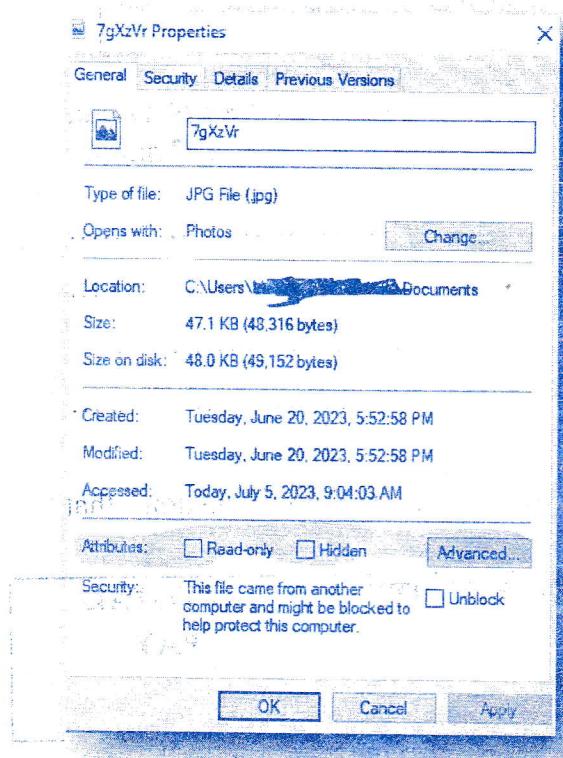
9. The table below shows part of a database. Use it to answer the questions that follow.

ITEM ID.	ITEM	DATE OF PURCHASE	AMOUNT	QTY	TOTAL PAY
ID001	Books	10-02-2001	Ugx700	3	
ID002	Pens	31-03-2001	Ugx400	4	
ID003	Pencil	01-12-2002	Ugx459	7	

- (a) Write down the data types in the following fields;
- (i) QTY
.....
(01 mark)
- (ii) Total Pay
.....
(01 mark)
- (b) Suggest a suitable primary key.
.....
(01 mark)

- (c) Write the criteria entered in the query design view to return items bought in the year 2022. **(02 marks)**
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10. Use the following file properties window to answer the questions that follow



- (a) Identify the actual file size **(02 marks)**
- (b) Write one application program that was used to create the above file **(01 mark)**
- (c) Explain the file attributes
- (i) Read only **(01 mark)**
.....
.....
- (ii) Hidden **(01 mark)**
.....
.....

11. A typical smart phone is a computer system with input, output and storage devices.
- a) State one input device, one output device and one secondary storage device that are built into a smart phone.

Input device **(01 mark)**

Output device **(01 mark)**

Storage device **(01 mark)**

- b) State two advantages of updating Apps on smart devices like a Smart Android phone. **(02 marks)**

(i)

(ii)

12. Tick one box in each row to show whether the task is an example of validation or verification. **(05 marks)**

Example	Validation (✓)	Verification (✓)
(i) A password is entered twice when creating a new online account.		
(ii) Copying the date of birth of a new club member into a database and checking that it is the same as on the membership form		
(iii) Entering Date of Birth into a field and an error message is displayed: "Wrong date format"		
(iv) Entering data by choosing from a drop down list		
(v) Not being able to submit an online form because you haven't entered all of the required data.		

13. (a) State whether it is simplex, Half duplex, full duplex in the following communication scenarios as referenced in data communication.
- (i) A two-way radio that has a push-talk-button **(01 mark)**
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- (ii) A live chat with a friend on WhatsApp. **(01 mark)**
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- (iii) Watching a talk show on NTV Uganda **(01 mark)**
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- (b) Identify two physical data transmission media. **(02 marks)**

	Tick here
Infrared	
Bluetooth	
Twisted pair	
Cellular Radio	

- (a) Define the following terms as used in publications.
(i) crop marks. (01 mark)

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.....
.....

- (ii) Template (01 mark)

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.....
.....

- (b) List any two desktop publication soft wares. (02 marks)

(i)

(ii)

- (c) Name a document that can be produced using publication software.

(01 mark)

14. Complete the table below (05 marks)

	DEVICE	PURPOSE
(a)	Dust blower
(b)	Used to dehumidify the working environment
(c)	Uninterruptible Power Supply
(d)	quickly and easily removes grease, oil, and dirt from surfaces without leaving any residue behind.
(e)	Stabilizers

15. (a) Explain what is meant by a computer virus. (02 marks)

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(b) Identify any two devices that can aid transmission of computer viruses from computer to another. (02 marks)

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(c) Identify **one** example of a computer virus. (01 mark)

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16. (a) State two differences between a Compact Disc(CD) and Flash disk. (02 marks)

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(b) Write down the steps you take to transfer a file from the desktop to a flash disk. (03 marks)

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.....

17. (a) Describe the following terms in programming languages.

(i) Bug (01 mark)

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.....

(ii) Boolean (01 mark)

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(iii) Debugging. (01 mark)

(b) Identify two examples of High level programming language. **(02 marks)**

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18. (a) Outline any *three* good reasons for practising ethics and law in computing. **(03 marks)**

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(b) Suggest any *two* examples of unethical computer code of conduct. **(02 marks)**

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19. (a) What are the 3 R's of green computing? **(03 marks)**

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(b) Outline two ways you would promote green computing in your society. **(02 marks)**

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END