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S850/1
Subsidiary ICT
Paper 1
JULY/AUGUST 2023
2 ½ hours



Uganda Advanced Certificate of Education

S850/1 Subsidiary ICT

Theory Paper

2 Hours 30 Minutes

INSTRUCTIONS TO CANDIDATES:

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.

Attempt ALL questions in this paper.

FOR OFFICIAL USE ONLY																				Total

1. (a). State the difference between hardware and software. (02 marks)

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(b). Define the term data. (01 mark)

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(c). Mention two devices that can be used to enter computer instructions. (02 marks)

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2. (a). Give the distinction between editing and formatting a document. (02 marks)

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(b). Outline any two editing features found in a word processor. (02 marks)

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(c). How is a light pen used in a word processor? (01 mark)

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3. (a). Mention two dangers of using a computer at home. (02 marks)

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(b). State any two parts that make up an e-mail address. (02 marks)

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(c). While composing a mail, what is the use of the "TO" field? (01 mark)

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4. (a). What are I/O devices? (01 mark)

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(b). State two examples of I/O devices. (02 marks)

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(c). Give two ways computers can be abused. (02 marks)

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5. (a). State the difference between system and peripheral devices. (02 marks)

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(b). Define the term computer literacy. (01 mark)

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(c). Mention any two examples of specialised application programs. (02 marks)

6. Using the following words, fill in the spaced provided for (a) to (e) below.

Videoconferencing, RSS feed, GPS, webcam, spreadsheets, video, simplex
channel. (05 marks)

(a). can be used to locate objects in a given region.

- (b). is a single directional communication method.
- (c). Multimedia is largely made up of a
- (d). instant breaking news on a website can easily be accessed using a /an
- (e). Live and video instant communication using a website is referred to as and with it, a is used to capture images for uploading.

7. Write short notes on the following:

- (a). Peer – to – peer LAN network model. (02 marks)

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- (b). Web server. (02 marks)

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- (c). State one advantages of using a network by an organisation. (01 mark)

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8. (a). What is a computer laboratory? (01 mark)

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- (b). State two ways air conditioning is important in a computer laboratory. (02 marks)

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- (c). Mention two reasons for servicing computers. (02 marks)

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9. (a). Give the difference between cold and warm booting. (01 mark)

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(b). In relation to booting a computer, state one function of the following:

(i). pressing **CTRL+ALT+DELETE** (01 mark)

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(ii). BIOS (01 mark)

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(c). State **two** reasons a user may restart a computer. (02 marks)

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10.(a). What is a computer virus? (01 mark)

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(b). State **two** ways computer viruses are transmitted. (02 marks)

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(c). Mention how the following can control the spread of computer viruses:

(i). Antivirus program. (01 mark)

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(ii). Use of passwords. (01 mark)

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11. You are given the following table:

	A	B	C	D	E
1	Item code	Name	Quantity	Selling price	Total Price
2	C001	Mirinda	200	900	
3	C004	Pepsi	400	900	
4	C010	Quencher	600	900	
5	C030	Ribena	1,200	1,500	
6	C030	Rwenzori	800	1,500	
7	C100	PK Sweets	1,000	250	

(a). State the application program you will use to organise this work. (01 mark)

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(b). What data type will be suitable for the data in the item code field? (01 mark)

.....

(c). Write the formula that will return Total Price for Ribena. (01 mark)

.....

(d). What will happen when you enter **Rwenzori** after Ribena? (01 mark)

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(e). State **one** practical application of this program in your school. (01 mark)

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12.(a). What is a software suite. (01 mark)

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(b). Give the difference between **shareware** and **freeware** programs. (01 mark)

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(c). Write short notes on the following:

(i). software upgrade.

(01 mark)

(ii). Software bug. (01 mark)

(iii). Beta software (01 mark)

13.(a). State two advantages of using e-commerce in business. (02 marks)

(b). Mention one example of web browser. (01 mark)

(c).

i). Web forum? (01 mark)

ii). Web mail? (01 mark)

14.(a). Define the term computer communication. (01 mark)

(b). Mention any two tools of computer communication. (02 marks)

(c). Give two advantages of telecommuting to an organisation. (02 marks)

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15.(a). Write the following acronyms in full:

(i). FTP (01 mark)

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(ii). BBS (01 mark)

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(iii). TCP/IP (01 mark)

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(b). Mention any two factors you will consider before establishing a network. (02 marks)

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16.(a). Give two forms of wireless communication devices. (02 marks)

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(b). Mention one danger of using wireless communication in an organisation. (02 marks)

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(c). Why are majority of organisations still using cable networks? (01 mark)

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17.(a). Give two differences between RAM and ROM. (02 marks)

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(b). Write one function to the following parts in a CPU.

(i). Control Unit. **(01 mark)**
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(ii). Arithmetic and Logical Unit. **(01 mark)**
.....

(iii). Registers. **(01 mark)**
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18.(a). State any two applications of artificial intelligence today in computing. **(02 marks)**
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(b). Mention one branch of digital forensics. **(01 mark)**
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(c). (i). What is green computing? **(01 mark)**
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(ii). Give one goal of green computing. **(01 mark)**
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19.(a). Outline two duties carried out by:

(i). Computer support specialist. **(02 marks)**
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(ii). Systems designer. **(02 marks)**
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(b). Mention one way you can care for a school network. (01 mark)

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20.(a). State the difference between a file and a folder. (01 mark)

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(b). Outline the steps you take to create a folder on your desktop. (02 marks)

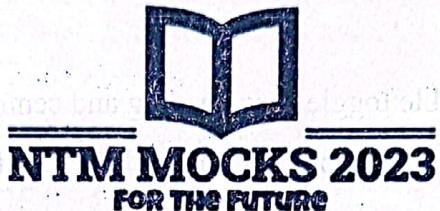
.....

(c). Give two causes of data loss in an organisation. (02 marks)

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END

S850/2
**Subsidiary Information
and Communication**
Technology ICT
JULY/AUG2023
2 hours



Uganda Advanced Certificate of Education

Subsidiary ICT S850/2

PRACTICAL PAPER

Time: 2 hours

INSTRUCTIONS TO CANDIDATES:

You are provided with a folder saved as 850-2UACE SUPPORT FILES 2023 where you will find your work and other graphics for use during this examination.

Question 5 has no support file. If you are to answer it, read the instructions carefully.

Each candidate is provided with a new Compact Disc where all the work shall be stored.

Each candidate has a printer connected to his / her computer.

Each candidate is provided with blank printing papers of A4 size.

Attempt only three questions in this paper.

Use of self-help wizard and templates are not allowed.

Turn Over

1. Open a word processing file saved as **EDITING** and carry out the following tasks.

- (a) Edit the work with correct spell check and grammar. (04 mark)
- (b) Adjust the line spacing to double. (01 mark)
- (c) Set margins to: top and bottom, 1.5 cm; left and right to 2.1 cm. (01 mark)
- (d) Insert a suitable toggle case heading and centre align it. (01 mark)
- (e) On the table, highlight cells with colour with their corresponding colours e.g. *highlight cell with RED with red colour.* (01 mark)
- (f) Convert text before the table to two columns with line in-between. (01 marks)
- (g) Insert a watermark of your Name. (01 mark)
- (h) Double strike through the word **EDITING**. (01 mark)
- (i) Remove the boldness in the word **EDITING**. (01 mark)
- (j) Insert a footnote on the word “grammatical” to **mean rules of writing a language.** (02 marks)
- (k) Insert any Art page border of 10 points (01 mark)
- (l) The pasted table should have all dotted brown border of 3 points (02 marks)
- (m) Add a footer of your name and a header of your personal number. (01 mark)
- (n) Save your work as **editedtext- your name** (01 mark)
- (o) Provide a print out for your work. (01 mark)

2. A group of Disc Jockeys have a DJ Contest in Rubirizi district each having a list of musical flavours they play. Use a spread sheet named as **DJ DATA.xls** from the support files to perform the following tasks.

- (a) Use suitable formula to count the number of times “YES” appears for every DJ in **column F** (02 marks)
- (b) Use suitable formula to count the number of times “NO” appears for every DJ in **column G** (01 mark)

- (c) Use formulas to find **Mode** of **TOTAL YES** and **TOTAL NO** in cell F7 and G7 respectively. (02 marks)
- (d) Use formulas to find **Total** of **TOTAL YES** and **TOTAL NO** in cell F8 and G8 respectively. (01 mark)
- (e) Use formulas to find **Average** of **TOTAL YES** and **TOTAL NO** in cell F9 and G9 respectively. (02 marks)
- (f) Insert a pie-chart showing DJ's Name and **TOTAL YES** data. (02 mark)
- (g) The pie chart should be in black and white colours only. (01 mark)
- (h) Move the chart to sheet 3 and rename it **ANALYSIS GRAPH** (01 mark)
- (i) Change alignment of column heading to -57° (01 mark)
- (j) Apply a thick box border to your data (01 mark)
- (k) Apply a suitable title in **Chiller** font face, font size 15.5 (01 mark)
- (l) Remove the underlining on DJ MOPHIA (01 mark)
- (m) Insert a right header of your name and personal number (01 mark)
- (n) Apply a comment on DJ BLACK to say "*Best DJ in Busia*" (01 mark)
- (o) Change the orientation of your spreadsheet to landscape (01 mark)
- (p) Print your work. (01 mark)

3. As a senior database administrator you have been approached by Mr Gitta a Barber from Buvuma Island to help him improve on his database management system which was developed by an S4 student. The database file has been provided in the support files with the name **SALOON**. Use it to perform the following tasks.
- (a) Rename the database as **HAIRSTYLES**. (01 mark)
- (b) Make the following changes in design view of your table:
- CLIENT ID –**Field size** is 80 (01 mark)
- BOOKING DATE –**Description** is *Date when customer booked for a given hair style* (01 mark)

- (c) Make the following changes on the **DATA ENTRY FORM**.
- (i) Suitable logo from image folder of support files (01 mark)
 - (ii) Title: **DATA ENTRY FORM**. (01 mark)
 - (iii) Red background colour. (01 mark)
 - (iv) Footer of your name, today's date. (01 mark)
- (d) Design four queries that should return data:
- (i). Client names that end with letter O and E. Save the query as **OE** (01 mark)
 - (ii). Booking No between 500 and 900, save the query as **MAX** (02 marks)
 - (iii). Client who paid for NAILCUT via MOBILE MONEY. Save the query as **Nail Mobile**. (02 mark)
 - (iv) Total of cash collected by the saloon. Save query as **Total cash**. (01 mark)
- (e) Make the following changes on the **SALOON REPORT**.
- (i) Logo of **hair3.jpg** image from support files (01 mark)
 - (ii) Sum of all amount paid by clients (02 marks)
 - (iii) Add a title: **REPORT FOR GITTA'S SALOON**. (01 mark)
 - (iv) Include a footer as your name. (01 mark)
 - (v) (01 mark)
- (f) Print your report only. (01 mark)

4. Using a presentation software, design a four-slide presentation about smoking

(a). Do the following tasks in the slides

- (i) Slide one : A suitable title and name (02marks)
- (ii) Slide two: Definition of smoking (02 marks)
- (iii) Slide three: Dangers of smoking (02 marks)
- (iv) Slide four:Conclusion (02 marks)

(b). Apply uniform transitions and animations in all slides (01 mark)

(c). All slides should have a blue colour background colour (01 mark)

(d). Insert action buttons to link your slides to and from. (01 mark)

(e). Insert a header of your name and footer of current date and time (01 mark)

(f). Apply slide numbers to all your slides. (01 mark)

(g). Insert speaker notes on slide four saying. "Smoking is harmful to your health". (01 mark)

(h). Insert an a sound in your presentation from audio folder called smoke coughing.mp3 (02 marks)

(i). Let all your slides be in portrait orientation (01 mark)

(j). Apply a page setup of your slides to be width:7.3 inches, height:11.1 inches (01 mark)

(k). Save your work as smoking-your name (01 mark)

(l). Print all your work on one A4 paper size. (01 mark)

5. Using a publication program of your choice, create a Certificate of Merit for the Computer Club of your school using the following details. (02 marks)

Instructions:

- (a) Use paper size A4 with a landscape orientation. (04 marks)**
- (b) Use nice looking but varying fonts. (04 marks)**
- (c) Include the following details: (04 marks)**
 - i. Name of awardees.
 - ii. Post recognised.

- iii. Two signatories i.e. the Headmaster and Patron.
 - iv. Indicate the names for the headmaster and the patron. (These need not to be the actual names).
- (d) Add your name as footer. (01 mark)
- (e) Balance your publication on the page size provided. (01 mark)
- (f) Using the mail - merge facility, populate and print the following certificates. (02marks)

Name of awardee	Post
Mulindwa Moses	Chairman
Kalinaki Joseph	Mobiliser
Nakato Agnes	Chief whip
Ajambo Rose	Secretary

- (g) Save your work as certificate (01 mark)
- (h) Print a copy of your work. (01 mark)

END