Name: _____ _____ Index No._____

School:_____ Signature_____

S850/1
Subsidiary Information and
Communication Technology
PAPER 1
July/August
2½ hours

WAKISSHA JOINT MOCK EXAMINATIONS

Uganda Advanced Certificate of Education

SUBSIDIARY ICT

Paper 1

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

- *The paper is made up of 20 equally weighted questions.*

- *Answer all questions in this paper.*

- *All answers should be written in dark blue or black ink in the spaces provided on the question paper.*

- *No additional answer sheets should be inserted.*

For examiner's use only																				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total

Turn Over

1. With the improvement in price and performance of computers and communication equipment, it will be possible for people in various business organizations to work from home. Such working using a PC as a remote terminal is often described as teleworking.
   (a) State **three** advantages of working from home.   (03 marks)

   (i) ....

   ....

   (ii) ....

   ....

   (iii) ....

   ....

   (b) State **two** disadvantages of working from home.   (02 marks)

   (i) ....

   ....

   (ii) ....

   ....

2. (a) Define the term Green Computing.   (01 mark)

   ....

   ....

   ....

   (b) State **two** goals of green computing.   (02 marks)

   (i) ....

   ....

   (ii) ....

   ....

   (c) Give **two** steps that can be taken to implement green computing.   (02 marks)

   1. ....

   ....

   2. ....

   ....

3. Department of ICT introduced a policy of not allowing students to use flash discs and other optical storage devices on school computers in the computer laboratory.
   (a) Give **three** reasons why students are discouraged from using such devices on school computers?   (03 marks)

   ....

   ....

   ....

(b)   State **two** alternatives that can be used to achieve the same objective.   (02 marks)

    (i)   ....

        ....

    (ii)   ....

        ....

4. (a)   Mr. Juma tried to retrieve a document file following all the steps correctly.
The filename did not appear in file list box. State **two** causes for this.   (02 marks)

    (i)   ....

    (ii)   ....

(b)   Mutesi a lab technician in Kibz College, selected a paragraph in word processing.
Explain what happened after pressing the following keys on the keyboard:

                                                                                                 (03 marks)

    (i)   CTRL + B   ....

    (ii)   CTRL +A   ....

    (iii)   CTRL+ U   ....

5. (a)   Study the file path given below and answer questions that follow.   (05 marks)
C: /KSS-1\PAM\Desktop\Senior six\EOT1.ppt
Identify the following;

    (i)   Drive for the file: ....

    (ii)   Computer name: ....

    (iii)   File extension: ....

    (iv)   Main Folder Location: ....

    (v) ,   User Account: ....

6. (a)   Describe the following computer memories.

    (i)   Register.   (01 mark)

        ....

        ....

    (ii)   Cache   (01 mark)

        ....

        ....

(b)   State the difference between the following:

    (i)   Clock speed and control unit.   (01½ mark)

        ....

        ....

    (ii)   Word size and process size.   (01 ½ mark)

        ....

        ....

Turn Over

7. Mr. Onyango a computer illiterate teacher was informed of the new ICT equipment and among these were the biometric devices which he had no idea about. He later seeks for your help. As ICT student:-

(a) What are biometric devices? (01 mark)

....

....

(b) Mention any **three** biometric devices that might have been informed to Mr. Onyango. (03 marks)

(i) ....

....

(ii) ....

....

(iii) ....

....

(c) Explain **one** disadvantage of using biometric devices. (01 mark)

....

....

8. (a) The cells B3 to B10 of a worksheet contain remarks on students' performance such as very good, good, fair and fail depending on the average mark.
Write a formula that can be used to count ALL students who have the remark "very good". (02 marks)

....

(b) Study the worksheet below and answer the questions that follow:

	A	B	C	D	E	F
1						
2		CASSAVA BREAD UGANDA LTD				
3	PRODUCT	REGION 1	REGION 2	REGION 3	REGION 4	TOTAL Sale
4	Kyogero	3400	3,700	4000	4100	
5	Lifebuoy	2500	2600	2100	2500	
6	Samona	6000	6100	6300	1600	
7	Kitooko	1200	1500	1400	6400	
8	Geyena	7000	6900	7200	8000	
9	Total					
10	Maximum					
11	Average					

(i) Write down the function that returns the number of sales in the four regions whose value is greater than or equal to 2000. (01 mark)

....

(ii) The function = sum (B4:E4) is entered at F5 and then copied to F8.
Write down the function as it appears in the destination cell. (02 marks)

....

9. Word processors are widely used for data processing in our society.
   (a) What is the difference between mail merge and word wrap as a concept used in word processing? (01 mark)

   ....
   ....
   ....
   ....

   (b) State **three** advantages of using electronic word processors. (04 marks)

   (i) ....
   ....

   (ii) ....
   ....

   (iii) ....
   ....

10. (a) Define the term software suite? (01 mark)

    ....
    ....

    (b) Give the difference between Shareware and Freeware programs. (01 mark)

    ....
    ....

    (c) Explain the meaning of the following terms:

    (i) Software Upgrade (01 mark)

    ....
    ....

    (ii) Software bug (01 mark)

    ....
    ....

    (iii) Software Theft: (01 mark)

    ....
    ....

11. Your head teacher wishes to be connected to the Internet. He already has a powerful personal Computer (PC), a printer, and access to a Telephone line. However, he understands that he will need a Modem.
    (a) State **one** reason why a modem is required to connect him to the internet. (2 marks)

    ....
    ....

Turn Over

Scanned by CamScanner

(b) The Internet connects millions of computers and telecommunication devices that have different hardware and software configurations. For these incompatible devices to be able to communicate, protocols are followed?

(i) Define the term protocol. (01 mark)

....

....

....

(ii) Name the **two** most common protocols for the Internet, and state their functions. (02 marks)

(a) ....

....

(b) ....

....

12. (a) Students of a certain school are planning to choose their students leaders by secret ballot. State **three** ways in which ICTs can be used to improve the election process. (03 marks)

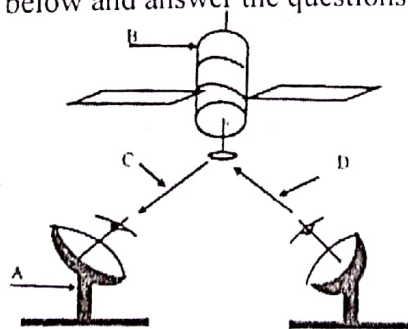(i) ....

....

(ii) ....

....

(iii) ....

....

(b) Explain why intranet is a more secure way to share files within an organization compared to internet. (02 marks)

....

....

13. (a) Study the diagram below and answer the questions that follow:

(i) Name the communication media depicted in the above diagram. (1 mark)

....

(ii) List **three** advantages of the above communication media. (03 marks)

....

....

....

(b) Distinguish between bounded and unbounded transmission media, giving **two** examples in each. (01 mark)

....

....

....

....

14. (a) Explain the difference between a digital signal and an analogue signal. (02marks)

....

....

(b) State **two** reasons for using binary in digital technology. (02 marks)

(i) ....

....

(ii) ....

....

(c) Write EBCDIC in full. (1 mark)

....

15. (a) Distinguish between synchronous and asynchronous data communication modes. (01 mark)

....

....

....

(b) State **one** area in each case, where the following data transmission modes can be used. (04 marks)

Full duplex	
Half Duplex	
Simplex	

16. Employees of a certain company in Wako town council are not happy because the top management decided to introduce ICTs in the company to ease their work.
State **five** reasons why employees may resist the introduction of Information and Communication Technology (ICT) to their places of work. (05 marks)

(i) ....

(ii) ....

(iii) ....

(iv) ....

(v) ....

17. (a) Suggest how computers may in future be made more user-friendly for persons that are:

(i) Blind (1 mark)

....

(ii) Without hands. (1 mark)

....

(b) Give **two** reasons why a firm may decide to computerize its operations.(2 marks)

(i) ....

(ii) ....

(c) Distinguish between "job replacement" and "job displacement" in reference to
Computerization of tasks. (1 mark)

....

....

18. (a) Simulation is one of the application areas of computers, (1 mark)
(i) What is meant by the term simulation?

....

....

(ii) Name **two** application areas of simulation. (2 marks)

....

....

(b) State **two** advantages of computer based simulation. (2 marks)

....

....

19. Computer systems need maximum security to prevent an unauthorized access.
State **five** precautions that you would expect an organization to take to prevent illegal
access to its computer-based systems. (5 marks)

(i) ....

(ii) ....

(iii) ....

(iv) ....

(v) ....

20. (a) Explain the term pixel? (1 mark)

....

....

(b) What role do pixels play in screen display? (1 mark)

....

....

(c) Give **three** advantages of the higher number of pixels per square centimeter.
(3marks)

(i) ....

(ii) ....

(iii) ....

END