Candidate's Name: …………………………………………………………………….

Signature: ……………………………………… **Index No**…………………………

S850/1
Subsidiary Information
and Communication
Technology
Paper 1
Jul/Aug 2019
$2\frac{1}{2}$ hours

MUKONO-KAYUNGA JOINT MOCK EXAMINATIONS BOARD

Uganda Advanced Certificate of Education

SUBSIDIARY ICT

Paper 1

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

Attempt **all** *questions in this paper*

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

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

For Examiners' Use Only																				
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	Total

1. a) Explain why a computer is referred to as a system.   *(02 marks)*

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   …………………………………………………………………………………………

   b) Name any three components housed in a system unit.   *(03 marks)*

   (i)   ……………………………………………………………………………………

   (ii)   ……………………………………………………………………………………

   (iii)   ……………………………………………………………………………………

2. a) Write ICT in full.   *(01 mark)*

   …………………………………………………………………………………………

   b) State four ways in which ICTs can be used to bring down the increasing crime rate in the country.

   (i)   ……………………………………………………………………………………

   (ii)   ……………………………………………………………………………………

   (iii)   ……………………………………………………………………………………

   (iv)   ……………………………………………………………………………………

3. a) Differentiate between a folder and a file as used in computer management.

   (02 marks)

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   …………………………………………………………………………………………

   b) Give three ways you can use to transfer a file from the computer desktop to a removable storage (e.g. flash disk).   *(03 marks)*

   (i)   ……………………………………………………………………………………

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   (ii)   ……………………………………………………………………………………

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   (iii)   ……………………………………………………………………………………

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4. a) Define the term **device driver**.   *(01 mark)*

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   …………………………………………………………………………………………

b) Give three advantages of Graphical User Interface (GUI) as compared to Command Line Interface (CLI). *(03 marks)*

(i) ……………………………………………………………………………………

(ii) ……………………………………………………………………………………

(iii) ……………………………………………………………………………………

5. a) Explain two reasons why a computer may fail to boot successfully. *(02 marks)*

(i) ……………………………………………………………………………………

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(ii) ……………………………………………………………………………………

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b) Calculate the size in bytes that a file of 5 kilobytes can occupy on a disk.

(03 marks)

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6. a) Mention two ways in which you can overcome repetitive strain injuries (RSIs) when using a computer. *(02 marks)*

(i) ……………………………………………………………………………………

(ii) ……………………………………………………………………………………

b) Describe three measures which should be taken in order to maintain computers in good working conditions. *(03 marks)*

(i) ……………………………………………………………………………………

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(ii) ……………………………………………………………………………………

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(iii) ……………………………………………………………………………………

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7. a) Define the term Internet. *(01 mark)*

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b) Give four requirements for connecting to the internet?　　　*(04 marks)*

(i) ……………………………………………………………………………………

(ii) ……………………………………………………………………………………

(iii) ……………………………………………………………………………………

8. a) Distinguish between primary memory and secondary storage.　　*(02 marks)*

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……………………………………………………………………………………………

b) Give three examples of secondary storage.　　　*(03 marks)*

(i) ……………………………………………………………………………………

(ii) ……………………………………………………………………………………

(iii) ……………………………………………………………………………………

9. Complete the following sentences using the most appropriate words from the list below.

hard disk drive　　　　hardware　　microphone　OCR　　　printer

scanner　　　　　　　screen　　　software　　speaker　　virus

a) The physical components of a computer are called…………………………………

b) The programs and data of a computer are called…………………………………

c) The device used to input sound is called a…………………………………………

d) The device used to store data is called a…………………………………………

e) The device that converts a softcopy into a hardcopy is called a……………………

(05 marks)

10. Indicate whether the following are examples of **impact printers** or **non-impact printers**.　　　*(05 marks)*

a) Dot matrix printer　　………………………………………………………………

b) Inkjet printer　　　　………………………………………………………………

c) Laser printer　　　　………………………………………………………………

d) 3D printer　　　　　………………………………………………………………

e) Braille printer　　　　………………………………………………………………

11. a) Explain the term Green Computing.　　　*(02 marks)*

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……………………………………………………………………………………………

b) Give three measures for green computing. *(03 marks)*

   (i) ………………………………………………………………………………………

   (ii) ………………………………………………………………………………………

   (iii) ………………………………………………………………………………………

12. a) Distinguish between system software and application software. *(02 marks)*

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b) What factors would you consider when buying a computer software? *(03 marks)*

   (i) ………………………………………………………………………………………

   (ii) ………………………………………………………………………………………

   (iii) ………………………………………………………………………………………

13. Explain the following as applied to computer software:

   a) Copyrighted software   *(01 mark)*

………………………………………………………………………………………………

………………………………………………………………………………………………

   b) Shareware   *(01 mark)*

………………………………………………………………………………………………

………………………………………………………………………………………………

   c) Software suite   *(01 mark)*

………………………………………………………………………………………………

………………………………………………………………………………………………

   d) Malware   *(01 mark)*

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………………………………………………………………………………………………

   e) Freeware   *(01 marks)*

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14. a) Distinguish between decoding and encoding. *(02 marks)*

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b) Give three ways in which a computer local area network can be laid out.

(03 marks)

(i) ……………………………………………………………………………………

(ii) ……………………………………………………………………………………

(iii) ……………………………………………………………………………………

15. Give three advantages and two disadvantages of using the internet to you as a student.

Advantages: (03 marks)

(i) ……………………………………………………………………………………

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(ii) ……………………………………………………………………………………

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(iii) ……………………………………………………………………………………

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Disadvantages: (02 marks)

(i) ……………………………………………………………………………………

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(ii) ……………………………………………………………………………………

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16. a) What is the difference between world wide web (WWW) and web browser?

(02 marks)

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b) Give three advantages of cloud computing. (03 marks)

(i) ……………………………………………………………………………………

(ii) ……………………………………………………………………………………

(iii) ……………………………………………………………………………………

17. Explain the meaning of the following as used in email communication:

a) BCC (01 mark)

……………………………………………………………………………………

……………………………………………………………………………………

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b) Username *(01 mark)*

……………………………………………………………………………………………………
……………………………………………………………………………………………………

c) Domain name *(01 mark)*

……………………………………………………………………………………………………
……………………………………………………………………………………………………

d) Login/Sign in *(01 mark)*

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……………………………………………………………………………………………………

e) Subject *(01 mark)*

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……………………………………………………………………………………………………

18. a) State any three features that make a presentation software like PowerPoint to be suitable for its purpose. *(03 marks)*

   (i) …………………………………………………………………………………………
   (ii) …………………………………………………………………………………………
   (iii) …………………………………………………………………………………………

   b) Explain one function of action buttons in presentation software. *(02 marks)*

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19. Artificial intelligence has been used in a wide range of fields including medical diagnosis, scientific discovery etc.

   a) Explain three advantages of artificial intelligence. *(03 marks)*

   (i) …………………………………………………………………………………………
   …………………………………………………………………………………………
   (ii) …………………………………………………………………………………………
   …………………………………………………………………………………………
   (iii) …………………………………………………………………………………………
   …………………………………………………………………………………………

   b) State any two disadvantages of artificial intelligence. *(02 marks)*

   (i) …………………………………………………………………………………………
   (ii) …………………………………………………………………………………………

20. Below is a database for Katunda's Computer Engineering Company. Use it to answer the questions that follow.

ID_No	SurName	Department	DoB	MarriageStatus	Salary
STK001	Tabula	Information	22/09/2017	NO	3,240,000
STK002	Katunda	Administration	28/02/1986	YES	5,360,000
STK003	Ssegguja	Computing	10/08/1993	YES	3,000,000

a) What criteria can be used to retrieve all records of employs who were born after the year 2000? *(01 mark)*

………………………………………………………………………………………

b) (i)   Which field stores Boolean data? *(01 mark)*

………………………………………………………………………………………

(ii)   Give one reason why this data type is used. *(01 mark)*

………………………………………………………………………………………

c) (i)   How many records are in the database above? *(01 mark)*

………………………………………………………………………………………

(ii)   Suggest a suitable primary key for the database? *(01 marks)*

………………………………………………………………………………………

END