Name: .... Centre/Index No........./......

Signature: ....

S850/1
Information and
Communication
Technology
Theory
Paper 1
July/August 2019
2 ½ hours

UGANDA TEACHERS' EXAMINATIONS SCHEME

Uganda Advanced Certificate of Education

JOINT MOCK EXAMINATIONS

· SUBSIDIARY ICT

(Theory)

Paper 1

2 hours and 30 minutes

INSTRUCTIONS TO CANDIDATES

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

This paper consists of **20** *equally weighted questions each carrying* **five** *(5) marks.*

The maximum mark for the paper is 100%.

Write in dark blue pen in the spaces provided on the question paper. **All** *answers should be in the spaces provided.*

No *additional materials (answer sheets) are provided.*

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

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Turn Over

(a)   In the modern world, every utility delivery company is switching from use of analog system to digital systems. Explain the term digital migration.
(2marks)

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(b)   Why do you think there is a need for these companies to switch from Analog systems to digital systems?   (3 marks)

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2.   (a)   Define the term "computer literacy".   (2marks)

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(b)   Give three reasons why the computer literacy level in Uganda is low.
(3marks)

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3.   (a)   Which laboratory equipment performs the following routine maintenance in the Computer laboratory?   (5 marks)

(i)   Regulates the room temperature.

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(ii)   Protects user's sight from being damaged by strong light rays from the monitor.

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(iii)   Regulates fluctuations in voltage.

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(iv)   Control voltage spikes.

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(v)   Provides alternative source of power when power goes off abruptly.

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4. (a) Distinguish between **mechanical mice** and **cordless mice.**   (2marks)

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(b) What are the three common **key board layouts** used today. (3marks)

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5. a) What is **data security?**   (01mark)

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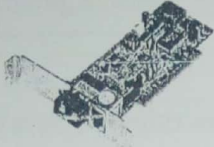
b) Identify **three** major **threats** to computer hardware.   (03 marks)

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c) Suggest **one** solution to any threat above.   (01mark)

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6. Study the diagrams below and answer the following questions.

Component X	Component Y	Component Z
ComponenptQ	Component P	

a). Identify the components: (03 Marks)

P:

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X:

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Q:

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b). Suggest one function of component labelled **Z**. (01Mark)

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c). Give **one** advantage of using component **Y** over a keyboard. (01 Mark)

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7. a) Differentiate between the following terms as used in computer storage.
File and folder (02 Marks)

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4

Device and Drive (02 Marks)

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Writing and reading (01 Mark)

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8. (a) What are the roles of the following professionals according to the job description.

     (i) ICT instructor (2 marks)

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     (ii) System analyst (2 marks)

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     (iii) Software engineer (1 mark)

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9. Ojambo is working on a certain document and would like to seek assistance from you on how to effect the following tasks using keyboard short cuts.

     (i) Creating a new page in a document (1 mark)

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     (ii) Closing the current program he is working with. (1 mark)

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     (iii) Selecting the entire content of a document (1 mark)

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     (iv) Seeking for help from the Microsoft Meta data offline. (1 mark)

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(v)   Print a document   (1 mark)

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10.   Your teacher has asked you to produce an advert for promoting popcorn business that has been started by the entrepreneurship club in the school to the local public.

a)   Mention **two** application software that can do the job.   (02 Marks)

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b)   Given your **skills** above and many more in the field of ICT, list three **income** generating activities you could engage in during senior six vacation.

(03 Marks)

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11.   (a)   Differentiate between **syntax** and a **language processor**.   (2 marks)

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(b)   Identify *three examples* of language processors.   (3 marks)

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12.   a).   Define **a soft copy information**.   (01mark)

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b).   Mention **two** devices that offer the following to the user:

i)   **Hard copy.**   (02 Marks)

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ii) **Soft copy.**

(02 Marks)

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13. Briefly explain the following services offered by the internet.   (5 marks)

(a) **Chartroom**

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(b) **Instagram**

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(c) **Instant messaging**

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(d) **Discussion group**

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(e) **E mail**

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14. Write **TRUE** or **FALSE** next to each of these statements.   (5marks)

1.	DTP software is used to create magazines	
2.	Measuring software is used to write letters	
3.	Database software is used to create slide shows	
4.	A working knowledge of HTML is helpful when creating web pages.	
5.	PDAs cannot be used unless plugged in to an electricity socket	

15. (a) Define the concept of **digital forensics**.   (1 mark)

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(b) Identify the three branches of **digital forensics**. (3marks)

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16. Give five symptoms of a computer infected by a virus. (05 marks)

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17. (a) How does the **IPOS cycle** differ from the **machine cycle**? (2 marks)

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(b) Briefly explain the following steps of the **machine cycle**. (3 marks)

(i) **Fetching**

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(ii). **Decoding**

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(iii). **Executing**

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8

18. (a) Define the term **Universal Resource Locator**(URL)   (2 marks)

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(b) With the help of example below identify the parts that make a **URL**.

(3 marks)

http://www.utestan.com

i) http

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ii) www

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iii) utestan

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iv) .com

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19. Briefly identify 5 application programs known to you and state the use of each.

(5marks)

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20. The worksheet below is used to compute the total hours and wages of employees working in Coca-Cola bottling company. Use it to answer the questions that follow:

	A	B	C	D	E	F	G	H	I
1									
2				EMPLOYEE WAGE COMPUTATION					
3	EMP.NO.	NAME	WEEK1	WEEK2	WEEK3	WEEK4	TOTAL HOURS	TOTAL WAGES	COMMENTS
4	11	SENKUSU	27	17	13	20			
5	21	KISUTU	30	25	21	19			
6	31	CALEB	5	20	16	6			
7	41	KIFAMPA	15	22	22	17			
8	51	KASSODE	20	12	19	18			
9	61	JACKIE	15	20	33	29			
10	71	JULIET	19	17	11	30			
11	81	MARK	28	12	14	14			
12		TOTAL BILL							
13					RATE PER HOUR	504.5			
14									

(a) Write down the formula that shall be used to compute

    i)   Total hours in cell **G4**   (1 mark)

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    ii)   Total wages basing on hour rate in cell **H4**   (1 mark)

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    iii)   Comment in cell **I4** to return *HARD WORK* for whoever worked for 20 hours and above and anybody below *LAZY*.   (2marks)

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(b) Identify the feature that enabled the typist to insert the heading "EMPLOYEE WAGE COMPUTATION" above using Ms excel.

    (1 mark).

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END