

Name: .....RegNo.....

Signature: .....

S850/1Subsidiary ICT

Paper 1

June/July, 2019

2 ½ hours

**ACEITEKA MOCK EXAMINATIONS 2019**  
**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				
1			11	
2			12	
3			13	
4			14	
5			15	
6			16	

7			17		
8			18		
9			19		
10			20		Total

**Question 1**

a) State any **three** positive impact of using ICT in Music Industry today.

- i. ....  
.....(01 mark)
- ii. ....  
.....( 01 mark)
- iii. ....  
.....( 01 mark)

b) Identify any **two** tasks a computer system cannot do.

- i. ....  
.....(01 mark)
- ii. ....  
..... (01 mark)

**Question 2**

a) Study the parts of the computer system exhibited. Use it to answer the following questions:



i. State the part labelled

- A.....(01 mark)
- B.....(01 mark)
- C.....(01 mark)

ii. State **one** similarity between devices A and B (01 mark)

.....

.....

iii. What type of output is provided by the device labelled C? (01 mark)

.....

**Question 3**

a) The computer does not recognize a removable external drive.

i. Suggest one Probable cause.

.....  
.....(02 mark)

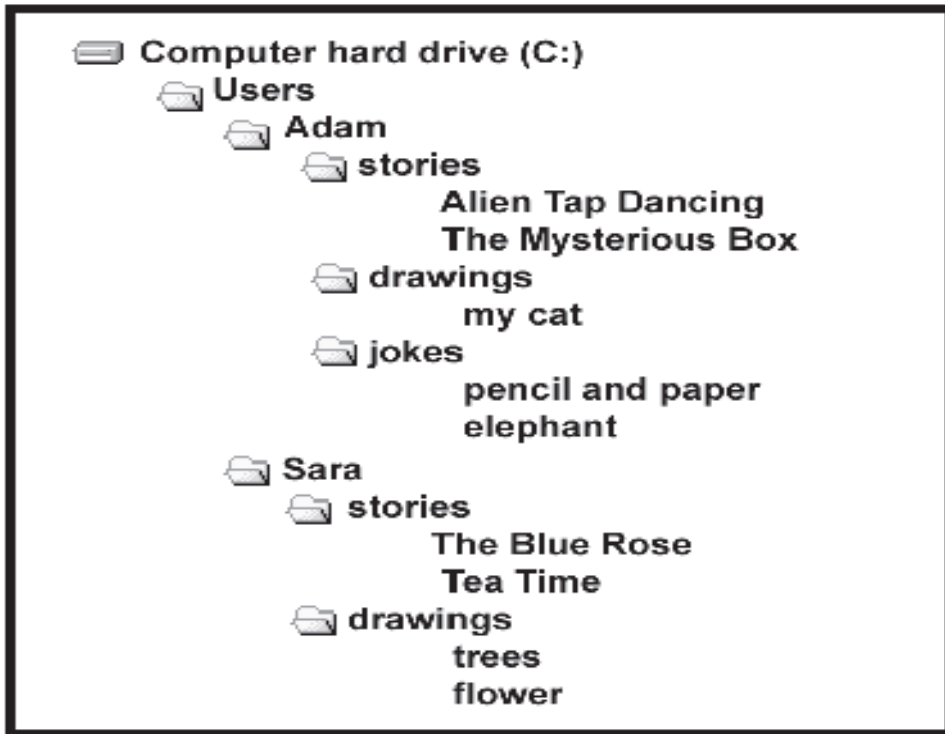
ii. What is the possible solution to the cause suggested in (a) i ?

.....  
.....(02 mark)

b) If an application does not install in a computer system, what could be the probable cause.

.....  
.....  
.....(01 mark)

**Question 4**



a) Study the exhibit, identify and write the file path of the following files:

i. The Blue Rose (02 marks)

.....

ii. pencil and paper (02 marks)

.....

b) How many folders are seen in the exhibit

..... (01 mark)

**Question 5**

Outline the uses of the following hardware components of the computer system:

- i. Central Processing Unit (CPU)

.....  
.....(01 mark)

- ii. Motherboard

.....  
.....(01 mark)

- iii. Power Supply

.....  
..... (01 mark)

- iv. Video Array Graphics Card

.....  
.....(01 mark)

v. Adapter Cards

.....  
.....(01 mark)

**Question 6**

a) State any **two** auxiliary / Secondary Storage Devices you know

i. .... (01 mark)

ii. .... (01 mark)

b) Name any **one** auxiliary /Secondary Storage Medium you know.

i. .... (01 mark).

c) What is use of cache memory found within the Central Processing Unit (CPU)

..... (02 marks)

**Question 7**

a) Study the statements and tick the YES or NO only against each. (05 marks)

Statement	YES	NO
i. You can only print one copy of a selected message		
ii. You cannot preview a message before you print it.		
iii. When you print a message, it is automatically deleted from your Inbox		
iv. There is only one way to print a message.		
v. A folder can store more files than a briefcase		

**Question 8**

Study the table and tick the appropriate match based on each memory. (05 marks)



Memory	Volatile	Non-volatile
i. RAM		
ii. CMOS		
iii. ROM		
iv. Punched Card		
v. Magnetic Tape		

**Question 9**

What are the purposes of using the following devices?

(05 marks)

INPUT DEVICES	Purposes
i. Bar Code Reader	
ii. MICR	
iii. OCR	
iv. Plotter	

v. Biometric System	
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**Question 10**

Toto College is organising a reunion for its teachers who have left or retired. A systems analyst is creating a database for the college to store the details of its past teachers. A three-letter code is used for the department. Part of the design of this database will involve the identification of suitable validation checks.

Below is a list of some of the data to be included in the database.

TeachName	CoName	Contact	DOB	YrLeft	Department
James	CEDAT	0782458678	1/8/1980	2008	Engineering
Monica	CoNS	0702345687	26/7/1988	2009	Mathematics
Paul	CoCIS	0772678950	4/5/1972	2019	Networks

a) For the following fields write down the most appropriate validation check. Each validation check must be different.

- i. Department.....  
.....(01 mark)

ii. DOB.....  
 .....(01 mark)

iii. YrLeft.....  
 .....(01 mark)

b) The systems analyst has set the data type for the contact field as text. Explain why this field has been set for a text data type rather than a numeric data type.

.....  
 .....(02 marks)

**Question 11**

A teacher has created a spreadsheet of students' test marks. She has written a function

= **HLOOKUP(B4, D1: L2, 2, TRUE)** in cell **C4** in the spreadsheet.

	A	B	C	D	E	F	G	H	I	J	K	L
1				0	30	40	50	60	70	75	80	85
2				F9	P8	P7	C6	C5	C4	C3	D2	D1
3	<b>Name</b>	<b>Test Mark</b>	<b>Grade</b>									
4		45	P7									
5		85	#N/A									
6		70	#N/A									
7												

a) Explain what the function in cell C4 does.

.....  
..... (02 marks)

b) When the teacher copies the formula down column **C** an error occurs

i. Explain why the error has occurred.

.....  
.....  
..... (02 marks)

ii. Indicate what the teacher has to do to stop the error from happening.

.....  
.....(01 mark)

**Question 12**

a) State any **two** types of system software used in a computer system.

i. ....(01 mark)

ii. ....(01 mark)

b) With examples, differentiate between shareware and freeware application software

.....  
.....(02 marks)

c) Name any application software suite that is commonly used.

..... (01 mark)

**Question 13**

Indicate TRUE and FALSE for any correct and incorrect statements respectively.

- a) Our e-mail address must be unique.....(01 mark)
- b) Web-based e-mail accounts do not required passwords.....(01 mark)
- c) You can sign up for Web-based e-mail without accepting the Web site's terms and conditions.....(01 mark)
- d) You can store Web-based e-mail messages in online folders.....(01 mark)
- e) You can delete e-mails from a Web-based e-mail account.....(01 mark)

**Question 14**

- a) The use of computers has had an effect on the health of employees. For each of the statements below, identify **one** health problem most likely to be associated with them and **two** possible solutions to the problem. (03 marks)

Action	Health Problem	Possible Solution
Looking at a monitor for a long period of time	(i)	(i)
		(ii)

- b) Outline any **two** Internet Services you know

i. ....(01 mark)

ii. ....(01 mark)

**Question 15**

To be transmitted, data must be transformed to electromagnetic signals. Where data can be analog or digital:

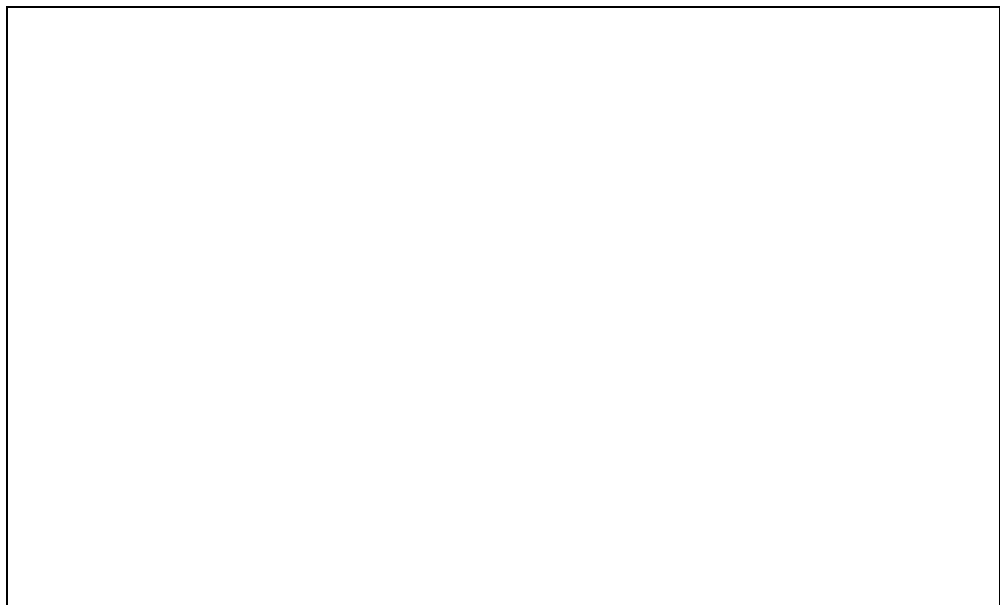
i. What is a digital Signal?

.....  
.....  
.....(02 marks)

ii. Explain the term “ analog signal” ?

.....  
.....  
.....(02 marks)

iii. Draw a sketch graph representing digital signal. (01 mark)



**Question 16**

a) In data communication, a protocol is defined as a set of rules that governs data communication. Explain the **three** key elements of protocols.

i. ....  
.....  
.....(01 mark)

ii. ....  
.....  
.....(01 mark)

iii. ....  
.....  
.....(01 mark).

b) Explain why the following protocols are important in networking:

i. HTTP.....  
.....  
.....(01 mark)

ii. SMTP.....  
.....  
.....(01 mark)

**Question 17**

Communication between two devices can be simplex, half-duplex, or full-duplex..

a) Identify and name any **two** devices that operate under a simplex mode:



i. ....(01 mark)

ii. ....(01 mark)

b) State one difference between half-duplex and full-duplex modes of transmission.

.....  
.....  
.....  
.....(02 mark)

c) The effectiveness of a data communications system depends on four fundamental characteristics. Explain any **one** characteristic you know.

.....  
.....  
..... (01 mark)

**Question 18**

a) A company is setting up a Local Area Network. Name **any** three network devices she can use

i. ....(01 mark)

ii. ....(01 mark)

iii. .... (01 mark)

b) Propose **any two cheaper transmission** media this company can use.

i. ....(01 mark)

ii. ....(01 mark)

**Question 19**

a) What are cybercrimes?

.....  
.....(02 marks)

b) Suggest any *two* ways of minimizing cybercrimes in society.

i. ....  
.....(01 mark)

ii. ....  
.....(01 mark)

iii. ....  
.....(01 mark)

**Question 20**

a) Indicate the word or phrase that matches the statement below. No repeat of word is required in any case: **worm, Viruses, Trojan Horse, spoofing, and Phishing.**

i. .... is the act of disguising one computer to, electronically “look” like another computer, in order to gain access to a system that would be normally is restricted.. (01 mark)

ii. .... is an unauthorized program which runs from inside, what seems to be an authorized. It in reality conceals what it is actually doing. (01 mark)

- iii. .... is a program that attaches itself to a computer or a file and then circulate itself to other files and to other computers on a network. (01 mark)
- iv. .... do not require the host to attach themselves to. They make runnable copies of themselves and do this repeatedly till they eat up all the available space on a computer's memory (01 mark)
- v. .... is a criminally fraudulent process of acquiring sensitive information such as username, passwords and credit card details by disguising as a trustworthy entity in an electronic communication.. (01 mark)

**END**