NAME: …………………………………….. **INDEX NO:** …………/ …….

 SIGN: ………………………..

840/1

ICT

July/August

2024

LAURIE COMPUTER CENTER

NATIONAL LOWER SECONDARY CURRICULUM

PRE-MOCK 2024

ICT PAPER 1

DURATION: 2 hours

INSTRUCTIONS:

- *This paper comprises of two sections, A and B.*
- *Section A comprises of three compulsory numbers, each carrying 20 marks.*
- *Section B comprises of two equally weighed numbers from which you only have to choose one. Do not do both numbers in section B.*
- *More marks will be provided to well-detailed work, written in a good handwriting.*
- *All answers to this paper must be written in the spaces and on the scripts provided in the examinations room, using blue or black ink pens.*
- *Use of text and notes books or any other form of examination mal-practice will make the victims face disciplinary action,*

FOR EXAMINERS' USE

QTN	MARKS
SECTION A	
1	
2	
3	
SECTION B	
4 or 5	

SECTION A

ITEM ONE

Context:

Mr. Kiwalabye Job, an ICT Head of Department in your school has been tasked to make a requisition to the school administration for the interest of widening the computer laboratory. This follows an increase in the school enrolment for the year 2024. The school already has a projector, wireless speaker, internet devices, printer and 20 laptops but now intend to buy desktop- type computers.

As an IT specialist in your community, you provide the brochure shown in the figure below to Mr. Kiwalabye for him to choose the devices he would wish to buy.

DEVICE	SPECIFICATIONS	PRICE
	24 inches 1080x820 screen resolution 13A input current	Shs. 260,000
	8GB RAM Intel i7 500GB HDD	Shs. 550,000
	HP keyboard	Shs. 15,000

	Dell Mouse	Shs. 10,000
	Coloured printing Duplex unit Two- 250 sheets trays Wi-Fi 35 pages per minute	Shs. 1,500,000

Task:

You are required to help Mr. Kiwalabye draft a well-detailed requisition to present to the school administration. In your writing, explain also how the devices you have listed above can be kept safe and in proper working condition. **(20 marks)**

ITEM TWO

Context:

Following the government directive of having each teacher registered, the teachers in your school are all panicking to have themselves registered on the TMIS (which is an online system). Each teacher is required to upload to the system; a passport photo, scanned documents and fill in the other required fields on the portal.

As an ICT teacher of your school, you are invited to help these teachers do the registration in school. Your school administration has asked you to choose of the two groups of devices provided in the figure below, the one you want to use in setting up internet and having teachers registered.

OPTION A
OPTION B

Task:

You are required to choose a group of devices and write to the school administration explaining to them;

i. How you would correctly connect the devices to be able to register the teachers on the TMIS system.

ii. Some of the security risks present on the internet and how you can protect the teachers' data against the mentioned risks to ensure integrity.

(20 marks)

ITEM THREE

Context:

As a five-year policy of Stanbic bank, it always auctions devices that are considered old-technology, such that they are bought for use by the able bidders and replaces them with new-tech devices (laptops).

This time round, a few of the devices have been bought, leaving the other devices (over 50%) in the Stanbic auction house unbought. The manager however cannot take them back to the bank's branches because they have already replaced them, so he chooses to trash them.

Support Material:

Task:

As an IT advisor of the bank, you are required to write to the manager, explaining to him;

a) Any three proper ways of handling/ disposing the old-tech devices other than trashing and burning them.

b) Some of the health hazards that the users of this new-tech devices are likely to face if they use the devices prolongedly. Attach also, the safety measures they can undertake to protect themselves against harm from these devices.

(20 marks)

SECTION B

(Choose One question from this section)

ITEM FOUR

Context:

Your computer laboratory is networked (that is to say; all the devices are connected to a central server computer through which they communicate and share resources like internet, printer, among others) and because of this, all the devices have been attacked by viruses and can no longer function effectively.

Following the advice given to you by the IT technician of your school, you are supposed to format the hard disk of the server computer (in order to erase everything on the disk) and after install software (windows, drivers and other application packages).

Task:

You are required to write, explaining to the new student teacher of ICT in the same school (your school);

    i.   How he/ she can perfectly install windows on the server computer, not forgetting to format the hard disk of the server.

    ii.   The possible causes of computer viruses on the server computer and how they can be avoided.

(20 marks)

ITEM FIVE

Context:

Assuming you were surfing on the internet, you got an idea of updating the drivers of your computer online. Following the guidelines you had acquired from a friend; you decide to load the online driver pack solution to start updating your drivers. The update went on well and you closed the computer to rest for the next day.

On waking up the following morning, all your computer files (including mp3s, videos, images and documents) could not open. Rather, they were all requesting for an unlock code and redirecting you to some web site to make a payment. After consultations, you were told that this is a type of malicious code called **Ransomware.**

Task:

You are required to make an address, training the public about;

    a) Malicious code, their examples, how they are spread and how computers can be safeguarded against such threats.

    b) The basic software needed (including the different examples available on market) to safeguard against computer viruses and the steps you can go through to correctly install the software.

(20 marks)

END

“*Where there is passion, success shall always follow*”