

**840/1**  
Information  
and  
Communication  
Technology  
**Paper 1**  
12 August 2024  
**2¼ hours**



**ENTEBBE JOINT EXAMINATION BUREAU**

**Uganda Lower Secondary Certificate of Education**

**INFORMATION AND COMMUNICATION TECHNOLOGY**

**Paper 1**

**2 hours 15 minutes**

**INSTRUCTIONS TO CANDIDATES:**

*This paper consists of **two** Sections; **A** and **B**. It has **five** examination items.*

*Section **A** has **one** compulsory item.*

*Section **B** has **two** Parts; **I** and **II**. Answer **one** item from each Part.*

*Answer **three** examination items in all.*

*Any additional item(s) answered will **not** be scored.*

***All** answers **must** be written in the answer booklet(s) provided.*

## SECTION A

*Answer **all** items in this Section.*

### Item 1

KICO is a primary school in Kisenyi zone. Currently they process learners' report cards manually; where subject teachers fill mark scores in a printed report book, after which the class teacher computes the total, average and comments about each learner. Many times parents have raised concerns about errors made in the reports. In one of the parents' meeting, one new parent suggested that a computerized report system be adopted. The idea was welcomed by the school administration and a flyer bearing ICT tools was sent to them as shown below.



Given limited knowledge on the ICT tools displayed on the flyer, management failed to select which ICTs would be appropriate for the report system.

### Task

- (a) Guide the school management to select the appropriate ICT tools that will help the school to produce accurate report cards.
- (b) Hardware, Software and Data in such a system are valuable. Enlighten the school administration about possible threats they may face and advise them on the precautions that can be taken.

## SECTION B

*This Section has **two Parts: I and II***

### PART 1

*Attempt **one** item from this Part*

### Item 2

KU-MIX is a music club that intends to purchase a computer set and install necessary software for music production. The company intending to sale the computer set sent a brochure indicating specifications of the three computer sets available for sale to the manager of KU-MIX club to make his choice. Unfortunately the manager is not knowledgeable about ICT.

Below are the three computer sets presented to the manager:

| SPECIFICATIONS  | COMPUTER A | COMPUTER B | COMPUTER C |
|-----------------|------------|------------|------------|
| Processor (CPU) | 4.0GHz     | 6.0GHz     | 2GHz       |
| RAM             | 2000MB     | 8GB        | 4GB        |
| SSD (storage)   | 2TB        | 10TB       | 20TB       |
| Sound card      | No         | Yes        | yes        |
| Graphics card   | Yes        | Yes        | No         |

### Tasks

- Guide the manager to choose the appropriate computer based on the specifications given above.
- After installation of the operating system they realized that the computer was unable to output sound. Advise the manager on how to troubleshoot and overcome the challenge.

### Item 3

The computer laboratory attendant of a certain school made a report concerning the status of the laboratory. In the report written, a number of ICT tools were reported to have malfunctioned due to power surge, lightening, breakage, vandalism and rodents that bit the wires leading to short circuits. The attendant collected the damaged ICT tools waiting to be dumped at the garbage pit assuming that most of them would no longer function.

Below are some of the ICT tools waiting to be dumped:



### Tasks:

- Advise the laboratory attendant and the school management on the measures they should put in place to prevent similar incidences.
- Demonstrate how the school and other partners can manage the items before being dumped at the garbage pit.

## PART II

Answer **one** item from this Part.

### Item 4

Tinka sat for her Primary Leaving Examinations (PLE) and qualified to join Ordinary level. Her mother wishes to enroll her in school X, but because of a big number of other parents wishing to join the same school, she has not managed to go through and deadline for application is nearing, yet she does not want to miss out on this opportunity. One old parent - Mr. Mukulu in school X advised mummy Tinka to apply online. The application form is accessed from the school website (<http://www.x.sc.ug>), filled and then submitted.

Some of the details needed are; the learner's current passport photo, results slip, valid email address, parents' details among others. Mummy Tinka is much willing to apply online but she lacks ICT skills.

Below is a form that has to be filled.

| X SCHOOL – REGISTRATION FORM                                                                 |                      |                      |                             |
|----------------------------------------------------------------------------------------------|----------------------|----------------------|-----------------------------|
| <b>Student's Details</b>                                                                     |                      | <div>PHOTO</div>     |                             |
| <b>First Name:</b>                                                                           | <b>Second Name:</b>  |                      |                             |
| <div>Type here</div>                                                                         | <div>Type here</div> |                      |                             |
| <b>Gender:</b>                                                                               |                      |                      |                             |
| <input checked="" type="radio"/> Male <input type="radio"/> Female                           |                      |                      |                             |
| <b>Former School:</b>                                                                        | <div>Type here</div> | <b>PLE Results:</b>  | <div>Upload .jpg file</div> |
| <b>Parent's Details</b>                                                                      |                      |                      |                             |
| <b>First Name:</b>                                                                           | <b>Second Name:</b>  | <b>Occupation</b>    |                             |
| <div>Type here</div>                                                                         | <div>Type here</div> | <div>Type here</div> |                             |
| <b>Contact:</b>                                                                              | <div>Type here</div> | <b>E-mail</b>        | <div>Type here</div>        |
| <input type="checkbox"/> <b>Declaration</b>                                                  |                      |                      |                             |
| <div>I declare that the information above is true and I accept to share it when needed</div> |                      |                      | <div><b>Submit</b></div>    |

### Task

Mummy Tinka has approached you to guide her through the required procedure. Provide a write-up indicating the necessary steps and ICTs to be used in this process.

### Item 5

Q & T is a company that deals in transportation of goods in and out of the country. Its employees have recently raised a number of health complications resulting from prolonged use of ICTs in their company. One other employee expressed worries about safety of company software and files due to the expired version of antivirus utility being used presently.

### Task

- The CEO has approached you seeking guidance about precautions employees can take on to minimize health complications.
- Employees have approached you seeking guidance on installation of a new version of an antivirus utility; provide a write up showing required steps to successfully install a new version of antivirus.