Candidate's Name: ....

Signature: .... Personal Number: ....

S850/1
Subsidiary Information
and Communication
Technology (ICT)
Paper 1
July / August 2024
2½ hours

MACADITA

MASAKA DIOCESAN EXAMINATIONS BOARD
Uganda Advanced Certificate of Education
JOINT MOCK EXAMINATIONS 2024
SUBSDIARY INFORMATION AND COMMUNICATION
TECHNOLOGY (ICT)
Paper 1
2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

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

Answer **all** the questions in this paper.

All answers should be written in blue or black ink in the spaces provided on the question paper.
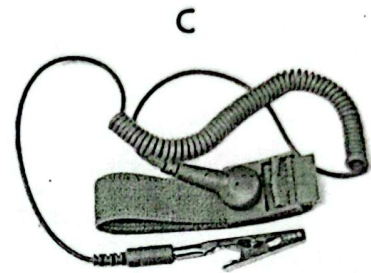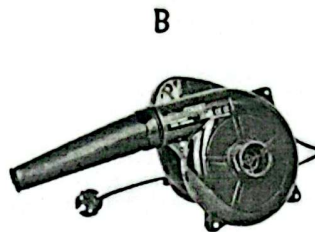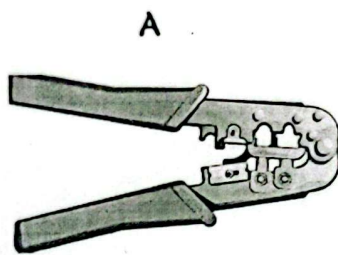
1. a) Define the term **computer**. (02 Marks)

   ....

   ....

   b) Identify by **name** the tools named A-C as used in computer maintenance.
   (03 Marks)

   | A | B | C |

   A   ....

   B   ....

   C   ....

2. a) Identify two possible **causes** of forced physical entry into data centres. (02 Marks)

   ....

   ....

   b) Suggest three **ways** that can be undertaken to avert forced physical entry into data
   centres. (02 Marks)

   ....

   ....

   ....

3. Complete each sentence below basing on **characteristics** of computers. (05 Marks)

   .... is the ability of computers to adapt to different situations,
   support various hardware and software configurations.

   .... is the ability of computers to perform a task with
   consistency, persistence, and attention to detail, without succumbing to fatigue.

   .... is the ability of computers to improve performance on
   tasks without explicit programming, draw conclusions and make decisions from data
   and knowledge and to interpret and understand data from sensors, images, and text.

.... refers to the degree of correctness and precision in a computer's outputs, results, and operations.

.... refers to the ability of a computer to perform tasks, process information, and execute instructions quickly and efficiently.

4. a) Identify two **application areas** where touch screens are commonly used. (02 Marks)

....

....

b) Write down three **advantages** of a flat panel monitor over a CRT monitor.
    (03 Marks)

....

....

....

5. a) **Define** the term integrated software.   (02 Marks)

....

....

b) Mention two **examples** of integrated software.   (02 Marks)

....

....

c) Give one **advantage** of integrated software.   (01 Mark)

....

6. a) Mention two **dangers** of using the internet at home.   (02 Marks)

....

....

b) State any two **parts** that make up an e-mail address.   (02 Marks)

....

....

c) While composing an electronic mail, what is the **use** of the "**BCC**" field? (01 Mark)

....

7. a) In electronic presentations, one can set features on slides using **APPLY** and **APLLY TO ALL**. What do they mean?

   i) **APPLY**   (02 Marks)

   ....

   ....

   ii) **APPLY TO ALL**   (02 Marks)

   ....

   ....

   b) Give one **example** of presentation programs.   (01 Mark)

   ....

8. a) What is **virtual reality (VR)**?   (01 Mark)

   ....

   ....

   b) Identify two **application areas** of virtual reality (VR).   (02 Marks)

   ....

   ....

   c) State two **limitations** of virtual reality systems.   (02 Marks)

   ....

   ....

9. a) Explain three **reasons** as to why an operating system may fail to aid booting of a computer.   (03 Marks)

   ....

   ....

   ....

   ....

   b) Give two likely **solutions** to the problem in 9 (a) above.   (02 Marks)

   ....

   ....

   ....

10. Write the following computer **acronyms** in full.

    i.   MODEM   (01 Mark)

    ....

    ii. GPRS   (01 Mark)

    ....

    iii. VGA   (01 Mark)

    ....

    iv. PCI   (01 Mark)

    ....

    v.   CMOS   (01 Mark)

    ....

11. a) Define the following **terms** as used in word processing.

    i.   Bookmark   (01 Mark)

    ....

    ....

    ii. Pagination   (01 Mark)

    ....

    ....

    iii. Section break   (01 Mark)

    ....

    ....

    iv. Watermark   (01 Mark)

    ....

    ....

    v.   Indent   (01 Mark)

    ....

    ....

12. a) A computer network connects workstations, servers, mainframes, network devices, peripherals or other devices connected to one another to allow sharing of data. Suggest the use of the following network components.

Network interface card (NIC) (01 Mark)

....

Firewall (01 Mark)

....

....

b) Differentiate between a LAN and MAN. (01 Mark)

....

....

c) State two reasons why there is need for caution when using the networks. (02 Marks)

....

....

13. Tick five common **dangers** to data and information stored on a computer. (05 Marks)

Accidental deletion	☐
Accidents like fires and floods	☐
Spread of computer viruses	☐
Securing wireless transmissions	☐
Theft of computers	☐
Antivirus guards	☐
Mechanical damage to devices	☐
Unstable power supply	☐

CamScanner

14. a) When databases are created, users mostly depend on four objects to manipulate data. Explain the main importance of the following database objects.

   i.   Tables
                                                                              (01 Mark)

   ....

   ii. Queries
                                                                              (01 Mark)

   ....

   iii. Forms
                                                                              (01 Mark)

   ....

   iv. Reports
                                                                              (01 Mark)

   ....

   b) Identify one application area where databases are used and needed. (01 Mark)

   ....

15. a) Give at least one measure the computer lab technician can employ in order to:

   i) Protect the computers from electrical damages.   (01 Mark)

   ....

   ii) Prevent loss and/or damage of data files.   (01 Mark)

   ....

   b) Suggest how the computer laboratory attendant can:

   i) Improve speed and general performance of the computer   (01 Mark)

   ....

   ii) Reduce risk of threats like sniffers and spyware   (01 Mark)

   ....

   iii) Proper usage of communication networks while students are in the school
       computer laboratory.   (01 Mark)

   ....

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16. The table below shows some examples of ICT tools, the application area where they are used and how they are used in the stated area. Study the table and fill the gaps correctly. (05 Marks)

	ICT device	Application area	Application of ICT
a)	Metal detectors		Used to detect those in possession of harmful weapons at entrances of all public places
b)		Education	
c)	ATM machine	Finance	
d)		Energy	Smart grids, renewable energy monitoring, energy management systems.

17. Topaz wants to start up his computer from the wall socket. Describe the step-by-step process his computer will take in order to show up the desktop. (05 Marks)

....

....

....

....

....

....

18. Use the figure below to answer the questions that follow.

	A	B	C	D	E	F
	HOUSE	RUNNING	NETBALL	POOL	TOTAL	POSITION
1	HOUSE	RUNNING	NETBALL	POOL	TOTAL	POSITION
2	TIGER	12	54	4		
3	LION	21	43	8		
4	SHARK	3	2	30		
5						
6	MAX					

i. Identify the application program that is appropriate to handle this data. (01 Mark)

....

ii. How many columns do you see? (01 Mark)

....

iii. State the formula that can be used to find the Total number of points collected by all Houses. (01 Mark)

....

iv. Which function should be applied to compute the position column? (01 Mark)

....

v. Which function can find the highest points scored in RUNNING? (01 Mark)

....

19. a) Define the term service programs. (01 Mark)

....

....

b) Give two uses for each of the following utilities.
i File compression utility (02 Marks)

....

....

ii Disk defragmenter (02 Marks)

....

....

20. a) State three factors to consider before buying computer software. (03 Marks)

....

....

b) Define the following terms.
i) Software bug (01 Mark)

....

....

ii) Software patch (01 Mark)

....

....

*** END ***