INSTRUCTIONS TO CANDIDATES:

Answer all questions in this paper

This paper is made up of twenty equally weighted questions

All answers should be written in blue or black ink in the spaces provided in the question paper

For Examiners: Use Only

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10| 11| 12| 13| 14| 15| 16| 17| 18| 19| 20|

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Candidate’s Name
Signature
Subsidiary Information and Communication
Technology Paper 1 2 hours

ROCK HIGH SCHOOL-TORORO
END OF TERM THREE EXAMINATIONS 2019
Uganda Advanced Certificate of Education SUBSidiary Ict S.5
Paper 1 2 hours 30 minutes

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1. (a) Define the term booting.  
This is the starting or restarting of a computer and loading the operating system into memory (RAM).

(b) Give two types of booting.  
**Cold booting (hard booting)**  
**Warm booting (soft booting)**

(c) What is the main difference between the two types of booting you have mentioned above?  
**Cold booting** is the starting of a computer that has been powered off while **warm booting** is the re-starting of a computer that is powered on when it freezes or encounters an error.

2. (a) Give the following in full:  
(i) **O/S** Operating system  
(ii) **POST** Power On Self Test

(b) Give any three functions of POST.  
(i) Checks the amount of RAM  
(ii) Checks for bad sectors on RAM  
(iii) Checking the computer’s memory (RAM) to make sure it is functioning properly.

3. (a) What is physical security with respect to a Computer laboratory?  
These are measures put in place to deny access to unauthorized persons/individuals from accessing the computer laboratory.

(b) What is the relevance of physical security to the computer lab?  
It ensures protection of computers, staff and students from situations that could cause danger, damage or loss.
(a) Give IT and ICT in full and define each. (04 marks)

**IT: Information Technology**
This is the study or use of electronic equipment especially computers for storing, analyzing and sending out information.

**ICT: Information And Communication Technology**
This is the diverse set of electronic equipment used to create, disseminate and receive, analyze and manage information for the benefit of individuals and institutions.

(b) What is the difference between IT and ICT? (02 marks)

IT refers to the study or use of electronic equipment while ICT refers to the electronic equipment itself used in IT.

5. (a) What do you understand by the term e-banking in the world of ICT's. (02 marks)
- Managing money, finances online or on internet.
- Carrying out money, financial transactions online.

(b) State three areas where e-banking is applicable. (03 marks)
- Accessing accounts online.
- Buying and selling shares.
- Checking account statements and account balance.
- Transferring funds, paying utility bills.

6. (a) Define an input device. (01 mark)
This is a component that is used to feed/enter data into the computer for processing.

(b) Name two basic input devices associated with common desktop computers (02 marks)

(i) **Mouse**

(ii) **Keyboard**

(c) Identify an input device for each of the following data. (02 marks)

(i) Sound: **Microphone**

(ii) Images: **Scanner**

7. a) Study the parts of the computer system exhibited. Use it to answer the following questions:
i. State the part labelled
   A. Mouse .......................... (01 mark)
   B. Keyboard .......................... (01 mark)
   C. Monitor .......................... (01 mark)

ii. State one similarity between devices A and B .......................... (01 mark)
- Both are input devices.
- Both are used to feed data into the computer.

iii. What type of output is provided by the device labeled C? .......................... (01 mark)
   (i) Soft copy output.

8. Give two ways in which computers can cause un-employment and two ways in which computers can cause employment.
   i) Un-employment .......................... (02 marks)
   - In industries when workers are replaced with robots.
   - In banks when the workers are replaced with ATM machines.
   ii) Employment .......................... (02 marks)
   - Computer programmers, secretaries
   - Computer operators, system administrators

b) Give one characteristic of a computer literate person. .......................... (01 mark)
   - Should be able to switch on and off the computer.
   - Identify and describe the functions of various components of a computer.
   - Should be able to use the computer as a resource.
9. Complete each sentence below using one item from the list.
   A bank cheque  
   A memory stick  
   A school registers
   A light sensor  
   A floppy disk  
   A microphone
   An inkjet printer  
   A plotter

   a) Options from a menu can be selected using ___________________________ (01 mark)
   b) Magnetic ink characters are used to record information on ________________ (01 mark)
   c) A very large file which needs to be moved from one computer to another for editing
      can be stored on ___________________________ (01 mark)
   d) Sound can be input into a computer using ___________________________ (01 mark)
   e) Making a hard copy of a class list ___________________________ (01 mark)

10. a) What is computer addiction?
    - Excessive use of computers to the extent that it interferes with daily life. (01 mark)

   b) Give two health problems that may be caused by prolonged use of computers.
    - Repetitive strain injury  
    - Fatigue  
    - Carpal tunnel syndrome  
    - Eye strain  
    - Back ache  
    - Headache  
    - (02 marks)

   c) Give two ways of preventing these health problems.
    - Taking regular breaks  
    - Use of anti-glare filter screen  
    - Sitting upright (right sitting posture)  
    - (02 marks)

11. a) Other than a phone call, briefly describe three uses of mobile telephones for
    communication.
    - Text messaging  
    - Sending E-mail  
    - Voice messages  
    - Creating blogs  
    - Sending photos  
    - Using social networking sites e.g. Facebook  
    - Video conferencing/conference  
    - (03 marks)

   b) Give two reasons why a mobile phone qualifies to be put under ICT tools. (02 marks)
    - Since it is an electronic equipment and is used for communication
    - Used for e-commerce, used for social networking, used for E-banking, WhatsApp, Twitter, used for E-learning
12. a) Define the term file extension
   This is a group of letters that occur after a period after the file name indicating the format of the file.

1. Fill in the right file extension for the following files.
   (03 marks)
   i) Audio file
   ii) Word document
   iii) Spread sheet document

13. What is an output device?
    These are components that are used to display data to the users.

   b) Give the two categories of printers an example in each case.
      (04 marks)
      i) Category Impact printers
         Example: Dot-matrix, Braille printer, Daisy wheel
      ii) Category Non-Impact printer
         Example: Laserjet, Bubblejet, Inkjet

14. (a) Differentiate between computer hardware and computer software.
    Computer hardware refers to the physical and tangible components of the computer while software refers to the electronic instructions that direct the computer on what to do.

    (b) Storage devices is one of the categories of computer hardware. List the other three categories.
    (03 marks)
    Input devices
    Processing devices
    Output devices

15. a) Explain the term trouble-shooting as used in computers.
    This is a form of problem-solving used to repair products, devices, software.
    This is the process of identifying a problem in the software or hardware device, giving possible causes and finding possible solutions to the problem.

   b) Name one tool that can be used to remove dust from the computer.
   (01 mark)
   Blower.
c) Why would one require an **interruptible power supply** in the computer laboratory? (02 marks)

It keeps back up power for devices in the event of failure or other electrical problems.

16. Suggest five services that can be provided an ATM machine. (5 marks)

- Cash withdrawal
- Funds transfer
- Balance enquiry
- Credit card payment
- Statement enquiry
- Cheque book request
- Pin change
- Utility bill payment
- Cheque deposit

17. For (a) Tick the **three** utility programs from the list below. (3 marks)

<table>
<thead>
<tr>
<th>TICK HERE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antivirus software</td>
</tr>
<tr>
<td>Web browser</td>
</tr>
<tr>
<td>Data compressor</td>
</tr>
<tr>
<td>Network operating system</td>
</tr>
<tr>
<td>Uninstaller</td>
</tr>
</tbody>
</table>

b) State the function of any **two** utility programs you ticked above. (2 marks)

- **Antivirus Software**: Used to search, find and remove viruses from the computer.
- **Data Compressor**: Outputs a smaller file when provided with a file. Uninstaller: Helps to remove a program from the computer.

18. (a) Give any **two** practices of green computing. (02 marks)

- Power down the CPU and all peripherals during extended period of inactivity
- Use LCD monitor instead of CRT
- Dispose e-waste according to federal, state and local regulations

(b) State two applications of **ICT** in teaching and learning. (02 marks)

(i) Computer Assisted Instruction (CAI), CAL and CAA

- Used to create school websites for sharing information,
- For making students' progress reports etc.

19. (a) Describe how you would sort data in a spreadsheet application. (02 marks)

- Highlight the data
- Click on data tab
- Then select sort
- Choose level (order in ascending or descending)
- Click on OK.
(b) Give three facilities that can be used to emphasize data in a word processor.

(03 marks)

(i) **Bold**

(ii) *Italics*

(iii) **Font size**

(iv) **Underline**

(v) **Font colour**

(vi) **Drop cap**

20. Write down an application example for carrying out each of the following tasks.

(05 marks)

(a). Typeset a letter to invite the Guest of Honor... *Ms. Word, Abi Word, WordPo.*

(b). Draw a budget for Senior live welcome party... *Ms. Excel, SheetstarEd.*

(c). Send an e-mail to a classmate... *Gmail, Outlook, Yahoo.*

(d). Prepare a talk to the senior ones in your school... *Ms. Power Point.*

(e). Search for information from the internet... *Google Search Engine, Bing Search Engine.*

"Never give up! Keep trying"