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**NAME: ……………………………………………………………………… PERSONAL NO**

**Signature. ………………………………………………………………….**

**S850/1**

**Subsidiary Information and**

**Communication**

**Technology**

**Paper one**

**2 ½ hours**

**MUKONO EXAMINATIONS COUNCIL**

**Uganda Advanced Certificate of Education**

**SUBSIDIARY ICT**

**Paper 1**

**2 Hours 30 Minutes**

**INSTRUCTIONS TO CANDIDATES**

* *Attempt* ***all*** *questions in this paper.*
* *The maximum time allowed for this paper is* **2** *hours* **30** *minutes.*
* *This paper is made up* ***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.*
* *Untidy work will lead to automatic loss of marks.*

|  |
| --- |
| **FOR OFFICIAL USE ONLY** |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | Total |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

1. (a) Define the term ergonomics***. (01mark)***

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

 (b) Prolonged computer usage leads to health complications. State two health problems

 caused by computers and one way how to prevent each of these health problems.

***(04marks)***

Health problem,

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

Prevention;

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

 Health problem;

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

 Prevention; ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

2.(a) what is computer crime? ***(01mark)***

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 (b) Mention any two examples of computer crimes. ***(02marks)***

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

 (c) Suggest any two security safe guards against the mentioned crimes in (b) above.

***(02marks)***

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

3. (a) Define intellectual property. ***(01mark)***

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

 (b) Mention any two examples of intellectual property.  ***(02marks)***

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 (c) Differentiate between un authorized access and un authorized use.  ***(02marks)***

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4. Given the following URL;

 <http://www.BBC.com/magazine/society.pdf>

Write the following in full. ***(04marks)***

URL; ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

http;

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

Www;

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

Pdf;

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

Identify the top level domain in this URL. ***(01mark)***

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

5. (a) Define alignment as a word processing feature.  ***(01mark)***

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

 (b) State either true or false. ***(04marks)***

|  |  |
| --- | --- |
|  | True/False |
| In right alignment text is evenly arranged on the right margin. |  |
| In justified alignment text is un evenly arranged on both the left and the right margins. |  |
| In left alignment text is evenly arranged on the left margin. |  |
| In center alignment text is evenly arranged both on the left and right margins. |  |

6. Life Time Graphics is blessed to have a plotter, scanner and a laser printer.

(a) State the role of the plotter;  ***(01mark)***

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

(b)Give three reasons why the firm prefers a laser printer to an ink-jet printer. ***(03marks)***

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Mention any one role of the scanner to the business.  ***(01mark)***

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

7. (a) An e-mail composed window is primarily made up of three main elements that include; header, message, and signature. State three items contained in the header.

***(03marks)***

(i) ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

(ii) ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

(iii) ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

(b) Mention any two examples of internet service providers in Uganda. ***(02marks)***

(i)…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………….

(ii) ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

8. (a) Differentiate between Shift key and Enter key as found in the computer key board.

***(02marks)***

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(b) List three keys on the computer key board that are used for both opening and shutting

 down a computer. ***(03marks)***

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

9. Computer software is classified into two broad categories which include; Systems software and Application software.

(a) State any two functions of systems software. ***(02marks)***

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

(b) (i) Differentiate between Low level languages and High level languages. ***(02marks)***

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(ii) Give one example of a low level language. ***(01mark)***

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10. (a) Define a computer laboratory. ***(01mark)***

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

(b) Explain the functions of the following equipment in the computer laboratory***.***

 ***(04marks)***

(i) Air conditioner. ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

(ii) Woolen carpet. ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

(iii) Clipping tool. ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

(iv) Screw driver. ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

11. (a) (i) Define the Computer network. ***(01mark)*** ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

(ii) Differentiate between a Local Area Network and a Wide Area Network. ***(02marks)***

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(b) Provide a tick to the network operating systems from the list given below. ***(02marks)***

|  |  |
| --- | --- |
| Operating system | (tick) |
| Mac OS |  |
| Palm OS |  |
| Microsoft window server |  |
| OS/2 wrap |  |
| Solaris |  |

12. POST and BIOS are very important in the computer booting process.

 (a) Define the term booting a computer***. (01mark)***

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

(b) Write the following in full and state one function of each in the booting process.

***(04marks)***

 POST

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

 Function. ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

 BIOS

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

 Function ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

13. (a) Define the term information processing cycle.  ***(01mark)***

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

(b) (i) Mention any two precautions taken to protect data loss in a computer. ***(02marks)***

……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………...

(ii) State two causes of computer data loss***. (02marks)***

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

14. (a) Define peripheral devices. ***(01mark)***

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

(ii) Give an example of a peripheral device. ***(01mark)***

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(b) State three reasons as to why solid-state storage media are more used today than

 magnetic storage media. ***(03marks)***

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15. (a) (i) Differentiate between Command Line Interface (CLI) and Graphical user

 interface(GUI). ***(02marks)*** ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

(ii) Give one example of a command line interface***. (01mark)***

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(b)Explain the advantages of Graphical user interface over command line interface.

 ***(03marks)***

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16. Explain the following terms as used in computer software. ***(05marks)***

(a) Software version. ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

(b) Software suite. ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

(c)Public-domain software. ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

(d) Beta software. ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

(e) Shareware.

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

17. Lamas Kara Seed Secondary School now enjoys the benefits of wireless communication.

 (a) Define the term wireless communication as used in networking. ***(01mark)***

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

(b) State two advantages and two disadvantages of wireless communication. ***(04marks)***

Advantages ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

Disadvantages

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

18. (a) Differentiate between a file path and a file extension***. (02marks)***

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

(b) Given the file path below; ***(03marks)***

 C:\Users\Dave\Desktop\MEC\S850 1.docx. Identify the following;

Root directory. ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

Folder name. ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

File extension. ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

19. Suggest a suitable input device from the list given below for each of the following tasks.

 ***(05marks)***

|  |  |
| --- | --- |
|  | INPUT DEVICE |
| Recording human voice into a sequence of electronic signals |  |
| Moving the pointer in a GUI environment. |  |
| Scanning the bar codes in a super market. |  |
| Digitizing a picture to electronic form with the help of a stylus or puck. |  |
| Entering text directly into a computer. |  |

 Joy stick, Graphic tablet, Microphone, Mouse, Bar code, Optical scanner, Keyboard.

20. (a) Differentiate between Hyperlink and Webpage. ***(02marks)***

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

State three importance of the internet to the society***. (03marks)*** ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

 ***End -***