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**School:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Signature\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**S850/1**

**Subsidiary Information and**

**Communication Technology**

**PAPER 1**

**August 2016**

**2½ hours**



**WAKISSHA JOINT MOCK EXAMINATIONS**

**Uganda Advanced Certificate of Education**

SUBSIDIARY ICT

**Paper 1**

**2hours 30 minutes**

**INSTRUCTIONS TO CANDIDATES:**

* *The paper is made up of 20 equally weighted questions.*
* *Answer all questions in this paper.*
* *All answers should be written in dark blue or black ink in the spaces provided on the question paper.*
* *No additional answer sheets should be inserted.*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **For examiner’s use only** | | | | | | | | | | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | **Total** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**Turn Over**

1. (a) Distinguish computer primary storage from secondary storage. (1mark)

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(b) State any **two** advantages of using compact disks for data storage. (2marks)

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(c) State the meaning of the following data storage concepts. (2marks)

**Storage media:**

*………………………………………………………………………………………………….…………………………………………………………………………………………………*

**Storage drive:**

*………………………………………………………………………………………….....…………………………………………………………………………..……………………………*

1. (a) Briefly describe the concept of computer ethics. (2marks)

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(b) State **three** unethical practices usually engaged in by ICT users. (3marks)

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1. (a) Distinguish between mail merge and word wrap word processing concepts.

(2marks)

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(b) State any **three** advantages of using electronic word processors. (3marks)

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4. Natural disasters can cause loss of data and important programs. As an ICT literate person;

(a) State **three** measures that can be taken to ensure that data and programs are not completely lost in cases of disaster. (3marks)

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(b) State **two** forms of disasters that can befall computer systems and installations.

(2marks)

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**Turn Over**

5. A problem with some computers in the computer lab was reported to a lab technician. Two of the technician’s recommendations were for the school to install gadgets to regulate temperatures, and also buying a woolen carpet for the computer laboratory.

1. Suggest the gadget they can buy in order to regulate room temperature. (1 mark)

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1. Give **two** reasons to explain why the gadget suggested in 5 (a) above is required in a computer room. (2marks)

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1. State **two** benefits of a woollen carpet in a computer lab. (2 marks)

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1. a) State the following ICT networking terms.
2. Bandwidth (1 mark)

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1. Web Server. (1 mark)

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1. Client computer (1 mark)

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b) State **two** factors one should consider when selecting a network model. (2 marks)

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1. a) Distinguish between synchronous and asynchronous data communication modes

(1 mark)

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b) Give **two** examples of data transmission media. (2 marks)

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c) State **two** factors you would consider when choosing a data transmission media.

(2 marks)

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8. Use the words at the BOTTOM to fill in the blanks and complete the gaps. (5marks)



**Turn Over**

1. a) State **one** situation where you can use a softcopy. (1 mark)

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1. Give **two** advantages of using softcopies over hardcopies. (2 marks)

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1. List down **two** examples of impact printers. (2 marks)

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1. a) Briefly define the following terms as used in networks and internet based

communications

1. Internet: (1mark)

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1. Intranet: (1mark)

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1. Extranet: (1mark)

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b) State **two** examples of web browsers. (2marks)

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1. a) Define the concept of computer system security. (1mark)

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b) Explain the concept of firewalls in ICT systems? (2 mark)

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1. State **two** threats faced by organizations as a result of computer networking.

(2 marks)

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1. a) Give **one** characteristic of the following spreadsheets cell data type;

Labels: (1mark)

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Values: (1mark)

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b) Study the logical function below to answer its related questions:

**= RANK (B2,$B$2:$B$10,0)**

1. State the output of the above function. (1 mark)

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ii) State **one** reason as to why the dollar sign is used on cell B10. (1 mark)

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iii) State the implication of having a zero at the end of the function. (1 mark)

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**Turn Over**

1. “ICTs have been grossly abused.” This was a lamentation by one of the parents who attended the S.6 class day of your School.
   1. State **one** category of ICT abusers: (1mark)

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* 1. Give **two** ways in which ICTs are being abused. (2marks)

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* 1. Suggest some **two** etiquette guidelines to facilitate appropriate ICT usage.

(2marks)

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14. a) State any **two** ways of securely keeping data for an organization. (2marks)

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b) State ***one area in each case,*** where the following data transmission modes

can be used. (3 marks)

|  |  |
| --- | --- |
| **Mode of transmission** | **Area of application** |
| Full duplex |  |
| Half duplex |  |
| Simplex |  |

15. a) Define the concept of wildcards as used in Data Base Management Systems (DBMS)? (1mark)

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b) State **two** importances of wildcards in query criterion? (2marks)

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c) State and explain **two** frequently used wildcards in DBMS. (2marks)

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16. a) Briefly explain how each of the following system devices contributes to the

general operations of a computer system.

1. Hard disk (1mark)

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1. Power Supply unit. (1mark)

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1. RAM chips. (1mark)

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b) State **two** methods you can use to enhance the speed of a computer. (2marks)

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17. a) (i) Define the concept of **“crop marks”** used in desktop publishing. (2marks)

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(ii) State **three** features of Desktop Publishing Software. (3marks)

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**Turn Over**

18. a) Distinguish between the following ICT security related concepts;

(i) Cracking from hacking (1mark)

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(ii) Eavesdropping from denial of service attack (1mark)

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(iii) Virus from a worm (1mark)

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(iv) Digital forensics from artificial intelligence (1mark)

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b) Give **one** example of biometric devices. (1mark)

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19. a) Briefly explain the following terms as used in internet based technology.

(3marks)

Handle………………………………………………..……………………………...

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Blog………………………………………………………………………………….

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Social network………………..………………………………………….…………..

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b) Give **one** example of a web browser (1mark)

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c) Briefly describe **one** danger of controversial content that circulates through

the internet. (1mark)

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1. Hilda prefers to store her documents online than removable devices.
2. What is **online storage.** (1 mark)

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1. State **two** examples of cyber (online) storage facilities you know. (2 marks)

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1. Give **one** advantage of using cyber storage over removable devices. (1 mark)

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1. How can Hilda ensure security of her data held by online data banks? (1 mark)

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**END**