S850/1
Subsidiary Information
and Communication
Technology
Paper 1
Nov./Dec. 2013
2½ hours

UGANDA NATIONAL EXAMINATIONS BOARD

Uganda Advanced Certificate of Education

SUBSIDIARY ICT

Paper 1

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

Answer all questions in this paper.

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

All answers should be written in blue or black ink in the spaces provided on 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	Total

Turn Over

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

1. The table below shows specifications of two computers *X* and *Y*.

Computer Specifications	Computer *X*	Computer *Y*
Processor	Intel(R) 3.2 GHz	Intel(R) 3308 MHz
RAM	1 GB	2000 MB
Hard disk	4600 MB	50 GB
Monitor Size	19″	15″

(a) Which of the two computers would you recommend for a company to buy?

.... *(01 mark)*

(b) State **two** reasons to defend your answer in (a). *(02 marks)*

(i)..

....

(ii)...

....

(c) Which is the least important of the computer specifications given in the table? *(01 mark)*

....

(d) State **one** reason defending your answer in (c). *(01 mark)*

....

....

2. (a) Explain how computers can professionally be used by:

(i) Teachers. *(02 marks)*

....

....

....

(ii) Doctors. *(02 marks)*

....

....

....

2

(b) State **one** health risk associated with continued usage of computers.

(01 mark)

....

....

3. (a) Explain the following terms in a spreadsheet.

(i) Values. *(02 marks)*

....

....

....

(ii) Labels. *(02 marks)*

....

....

....

(b) Name a symbol used when writing functions in a spreadsheet. *(01 mark)*

....

4. (a) A student had a file on her laptop and wanted to transfer it to a computer in a laboratory. Give **three** devices that she can use to transfer the file.

(03 mark)

(i)...

(ii)..

(iii)...

(b) Explain the following methods of transferring a file from one location to another.

(i) Drag *(01 mark)*

....

....

....

(ii) Copy *(01 mark)*

....

....

....

5. (a) Give **three** factors a company should consider before buying any storage devices.   (*03 marks*)

(i)...

(ii)..

(iii)...

(b) Teo's network access speed is six megabytes per second. How many kilobytes does Teo's network receive or send per second?   (*02 marks*)

....

....

6. (a) Give **one** use for each of the following computer devices.

(i) Power supply unit.   (*01 mark*)

....

....

....

(ii) System Case   (*01 mark*)

....

....

(iii) CMOS battery   (*01 mark*)

....

....

(b) Explain the following:

(i) Analog device.   (*01 mark*)

....

....

(ii) Digital device.   (*01 mark*)

....

....

7. (a) State **three** types of computer software. (*03 marks*)

(i)..

(ii)...

(iii)..

(b) Differentiate between a **software version** and a **release**. (*02 marks*)

....

....

....

....

8. (a) State **two** Internet based tools that support web based research.
(*02 marks*)

(i)...

(ii)..

(b) Identify **three** things one would require in order to get connected to the Internet. (*03 marks*)

(i)...

(ii)..

(iii)...

9. Outline **five** factors which determine data transmission speeds over the Internet. (*05 marks*)

(a)..

....

(b)..

....

(c)..

....

(d)..

....

(e)..

....

10. Give **five** factors an organisation should consider before choosing a Local Area Network (LAN) model. *(05 marks)*

(a)...

....

(b)...

....

(c)...

....

(d)...

....

(e)...

....

11. (a) Write the initial procedure of booting a computer system. *(03 marks)*

....

....

....

....

(b) Give any **two** measures taken to ensure that computers in a laboratory are safe. *(02 marks)*

(i)..

(ii)...

12. (a) A computer file is made up of a file name and a file extension.

(i) What is the purpose of a file extension? *(02 marks)*

....

....

....

(ii) Write down the file extension for a word processor document.
(01 mark)

....

(b) Okello deleted his file accidentally. In which **two** ways can he recover his file? (*02 marks*)

(i)...

(ii)...

13. (a) An Internet café plans to replace Cathode Ray Tube (CRT) monitors with Liquid Crystal Display (LCD) monitors. Why should the café replace CRTs with LCDs? (*05 marks*)

....

....

....

....

....

....

14. Indicate **True** or **False** against each statement in the table below. (*05 marks*)

		TRUE/FALSE
(a)	Windows XP is a graphical user interface operating system.	
(b)	Presentation software supports multimedia.	
(c)	Word processors have formula bars.	
(d)	Backup is to combine the content of two or more files to produce one output file.	
(e)	The Disk Operating System is menu driven.	

15. Company *A* uses custom-made applications while company *B* uses off-shelf applications. Write down any **five** advantages company *B* has over company *A*. (*05 marks*)

(a)...

(b)...

(c)...

(d)...

(e)...

16. (a) Explain the term **Software Piracy**. (*02 marks*)

....

....

....

(b) Write down any **three** precautions taken to prevent software piracy.

(*03 marks*)

(i)..

(ii)..

(iii)..

17. The table below shows part of a database. Use it to answer the questions that follow.

EMPLOYEE No.	NAME	TEL. NO	SALARY	No. OF MONTHS	TOTAL PAY
E227008	Betty	0774267820	$700,000	3	
E227011	Kintu	0701998142	$400,000	4	

(a) Write down the data types entered in the following fields.

(i) **TEL. No**.. (*01 mark*)

(ii) **SALARY**.. (*01 mark*)

(b) Suggest a suitable primary key. (*01 mark*)

....

....

(c) The formula entered in the design view to determine TOTAL PAY, which is a product of SALARY and NO. OF MONTH is

....

(*02 marks*)

18. State any **five** characteristics of a modern computer. (*05 marks*)

(a)..

(b)..

(c)..

(d)..

(e)..