

Name:Class: Stream:

S850/1
Subsidiary ICT
2 hours 30 Minutes
June, 2016

Uganda Advanced Certificate of Education Examinations 2016
Resourceful Mock SUBSIDIARY ICT PAPER 1

Theory
Duration: 2 hours 30 minutes

Instructions to candidates:

1. Attempt ALL questions in this paper
2. The paper is made up of 20 equally weighted structured questions each carrying 5 marks
3. Write your answers in the spaces provided.
4. No additional materials (answer sheets) are provided.

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

PTO

1. a) Describe the concept of *information processing cycle* (1 mark)
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.....
- b) State **one** reason to justify the need for information processing (2 Marks)
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.....
.....
- c) State **two** examples of information for an organization like a school (2 Marks)
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.....
2. Differentiate **green computing** from **cloud computing** (1 mark)
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.....
- b) State **two** elements of green computing (2 marks)
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.....
- c) State **two** positive implications of ICTs in the economic field of a country like Uganda. (2 marks)
(i)
.....
(ii)
.....
3. (a) Briefly describe how you would safely turn off a computer system after using it. (3 marks)
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.....
.....

(b) State **two** circumstances that can necessitate a hard boot of a computer system. (2 marks)

- i.
- ii.

4. Briefly describe how you would create a folder on a computers desktop. (2 marks)

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.....

b) Briefly explain the following computer file attributes: (3 marks)

i. Archived file.....

.....

ii. Read-only file.....

.....

iii. File extension.....

.....

5. a) With the help of a real example define a **utility program**. (2 marks)

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.....

b) State one effect of each of the following service to a computer system; (3 marks)

i. Defragmenting a disc;

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.....

ii. Reducing the size of a file

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iii. Sorting files in a specific order.....

.....

6. a) State **two** computer search tools used to trace for data, files and folders. (2 Marks)

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.....

b) Give **three** causes of printer failure (3 Marks)

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.....

7. a) Define a computer security risk (1 mark)

b) Give **two** examples of computer security risks. (2 marks)

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.....

c) State **two** symptoms of an insecure computer system (2 marks)

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.....

8. a) distinguish between the following ICT related concepts;

i. Digital migration from digital divide (1 mark)

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ii. Software upgrade from software update (1 mark)

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b) Give **three** factors that can necessitate computer system trouble shooting (2 marks)

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.....
9. a) Software products are usually sold in different versions and releases. As a learner of ICT, give **two** electronic word processor versions or release; (2 marks)

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.....
b) State **two** identifiable differences between the two software versions or releases identified in question 9 (a) above. (2 marks)

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.....
c) Give the difference between an **endnote** and a **footnote** (1 mark)

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.....
10. a) Give one example of pointing devices for a computer system (1 mark)

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.....
b) State **one** function of each of the following computer system devices;
i) System case (1mark)

.....
.....
ii) Light emitting diodes (1mark)

- c) The table below gives specification details of two computers (computer A and computer B). Study the tabulated specifications of computer A and computer B carefully, and answer the questions that follow. (2 marks)

Table of specifications

Component	Computer A	Computer B
RAM	1024 MBs	1 GB
CPU	2.4 GHz	526MHz
HDD	10 GBs	4096 MBs
Display	HD - LCD	CRT

Which one of the above computers would you recommend for your personal friend to buy?

Give **one** reason to support your recommendation.

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.....
.....

11. a) State **one** sign or symptom of operating system failure in the computer system.

(1 mark)

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- b) State **one** role of the Operating system as a coordinator of computer hardware resources

(1 mark)

.....

- c) Apart from coordination of other computer resources give **two** other roles of the operating system in the computer system

(2 marks)

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.....

d) Give **one** example of standardized application software (1 mark)

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12. a) Briefly explain the following terms as used in internet based technology (3 marks)

(i) Handle.....

.....

(ii) Blog.....

.....

.....

(iii) Social network.....

.....

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

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c) Briefly describe **one** danger of controversial content that circulates through the internet. (1 mark)

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13. a) Give **two** application areas of electronic spreadsheets in a school like ours (2 marks)

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.....

b) Study the function structure below and answer the questions that follow.

=IF(D2>50,"PASS","FAIL")

i) State the category of the function (1 mark)

.....

ii) State **one** reason for applying inverted quotation marks onto comments **PASS** and **FAIL**. (1 mark)

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c) State **one** characteristic of data values when used in spreadsheet cells and functions
(1 mark)

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14. (a). State **two** forms of interface an operating system can provide to the computer system user.
(2 marks)

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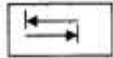

(b) Mention the **three** features that make up a font. (3 marks)

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15. a) For each of the model of the keyboard keys in the table below, write the true name of the key and its function: (4 Marks)

Model of the keyboard key	Name of the Key	Function of the key
		<p>.....</p> <p>.....</p> <p>.....</p>
		<p>.....</p> <p>.....</p> <p>.....</p>

(b) State **one** operational part of the computers keyboard (1 Mark)

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16. (a) Briefly explain how each of the following system devices contributes to the general operations of a computer system

(i) Hard disk drive (01 mark)

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.....

(ii) Power Supply unit (01 mark)

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.....

(iii) RAM chips (01 mark)

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b) State **two** approaches you would take to improve on the processing speed of a computer whose operations are gradually slowing down. (02 marks)

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.....

17. (a) Briefly show how a student would make use of the following internet services for learning purposes

i) News group: (01 mark)

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.....

ii) Instant messaging: (01 mark)

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iii) Skype: (01 mark)

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(b). State *one* example of local area network models (1 mark)

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(c). State *one* role of computer based network protocols (1 mark)

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18. a) State *two* professional functions of a teacher of ICT. (2 marks)

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b) Give *two* ethical guidelines to students using the internet in a school. (2 marks)

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.....

c) State one challenge to ICT related careers in Uganda today. (1 Mark)

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19. a) Distinguish "*cropping*" from "*crop marks*" features of desktop publishing software (1 Mark)

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b) Give *two* examples of publications that can be made using desktop publishing software (2 Marks)

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c) State *two* features of desktop publishing software (2 Marks)

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

i) Cracking from hacking (1 Mark)

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

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.....

iii) Virus from a worm (1 Mark)

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iv) Digital forensics from artificial intelligence (1 Mark)

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b) Give *one* example of biometric devices (1 Mark)

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END