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SUBSIDIARY
ICT
PAPER 1
JUNE, 2018
2 ½ HRS

NSAMBYA HILLSIDE HIGH SCHOOL

Uganda Advanced Certificate of Education
SUBSIDIARY ICT
PAPER 1
Theory
Duration: 2 hours 30 minutes

Instructions to candidates:

- *Attempt ALL questions in this paper The paper is made up of 20 equally weighted structured questions each question weighing 5 marks*
- *Write your answers in the spaces provided.*
- *No additional materials (answer sheets) will provided.*

FOR TEACHERS 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) After teaching the concept of system peripherals teacher Solomon asked Honest the class representative to name two examples of system peripherals. Honest mentioned a keyboard and a monitor for which the teacher said No!!!! Briefly explain why teacher Solomon refused Honest's examples
(2 marks)

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b) State **three** reasons to justify the need for teaching ICT in schools
(3 marks)

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2. a) In the teaching and learning processes ICTs can be treated as enablers that can ably enhance teaching and learning. As a student of ICT give **two** reasons to support this assertion.
(2 marks)

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b. Assuming that you are a member of the ICT club in your school, briefly show how you would promote green computing in your communities.
(3 marks)

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3. The booting process is identified by many activities, light and sounds. As a critical ICT user briefly show the implications of the following;

i) No beeps: (1 mark)

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ii) Two beeps or beeps repeating endlessly: (1 mark)

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iii) A soft boot. (2 marks)

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iv) Light emitting diodes:

(1 mark)

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4. A good file organisation is key in any file management of both physical and logical files. This can include all aspects of handling documents involving storage, retrieval, backups, and security of files. As a student of ICT;

a) Distinguish between;

i) **Physical** and **logical** files

(1 mark)

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ii) FAT and NTFS file systems

(1 mark)

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b) State **two** conventions of a good file organisation or management(2marks)

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c) State **one** advantage of a good file management system

(1 mark)

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5. State **one** instance under which you would use each one of the following system utilities:

i) Anti-virus utility:

(1 mark)

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ii) Defragmenting utility:

(1 mark)

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iii) Cryptographic utility:

(1 mark)

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iv) Win zip utility:

(1 mark)

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v) Compilers:

(1 mark)

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6. Archived files can be characterized by several features. As an ICT student and practitioner;

i) Briefly describe an archived file for clarity of the above statement (1 mark)

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ii) State **two** file attributes of your choice (2 marks)

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iii) Give the importance of **file extensions** in file management (2 marks)

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7. a) Briefly show how you would use the following keyboard keys in a real data entry situation;

i) Num lock key (1 mark)

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ii) Print screen key (1 mark)

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iii) Home keys: (1 mark)

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b) Briefly explain why a mouse would be treated as an input device. (2 marks)

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8. Pointing devices like mouse pieces, touch pads, joysticks and track balls face lots of challenges in the day to day operations of computer systems.

a) State **two** of such challenges facing pointing devices (2 marks)

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b) Explain any **three** methods of safeguarding digital content and computer networks

(3 marks)

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9. a) Assuming that one of your best friends Tiffa, is planning to enter into graphical designs and animations industry. As an IT literate friend advise her on any **three** critical factors she should consider while buying the software to use.

(3 marks)

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b) Give **one** practical situation where one would use the following spreadsheet functions in business;

i) Rank function: (1 mark)

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ii) Max function: (1 mark)

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10. a) The Central processing unit (CPU) is made up of the Control unit, Arithmetic logic unit, system clock and accumulators or registers. Explain the function of each of the elements of the CPU.

(4 marks)

Element	Function
Control unit	
Arithmetic logic unit	
System clock	
Accumulators	

b) State **one** approach to increasing a computers data processing speeds.

(1 mark)

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11. a) Explain the meaning of the following concepts in relation with computer storage and memory

i) Solid state technology: (1 marks)

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ii) Optical technology: (1 mark)

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b) Explain why the following should not be done while managing storage media;

i. Exposing magnetic media to magnetic fields (1 mark)

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ii. Exposing storage media to excessive heat (1 mark)

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iii. Pocketing of CDs and floppies; (1mark)

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12. a) One of the critical factors of any software product is its interface. As an ardent fan of ICT give **two** examples of interfaces a software product can provide to its users. (2 marks)

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b) In the table below give **one** example of a specialized software that specially use each of the interfaces mentioned in question 12. a) above. (2 marks)

Nature of interface	Software product

c) Give **an** example of a device driver needed for effective usage of computerized systems. (1 mark)

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13. a) Explain the **three** career functions of an ICT teacher/instructor.

(3 marks)

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b) State **two** challenges faced by ICT instructors in their attempt to promote ICT knowledge and skills

(2 marks)

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14. a) Explain how and when one would use electronic mail account users.

(3 marks)

i) CC.....

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ii) Compose.....

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iii) BCC.....

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b) State **two** reasons to explain the limited usage of electronic mails in your community.

(2 mark)

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15. a) State **one** situation where one would use the following electronic database features.

i) Enforcement of referential integrity

(1mark)

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ii) Creation of relationships

(1mark)

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iii) Creation of queries:

(1mark)

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b) State **two** limitations of using electronic databases

(2 marks)

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16. a) Briefly show what you would use the following internet based services for:

i) Internet relay chats

(1 mark)

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i)

ii) File transfer protocol

(1 mark)

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b) The internet is made-up of quite a number of services ranging from communication, entertainment and leisure, research, and money, finance and banking, to publishing. As an ICT person, and many more others; State any **three** internet based services for research

(3 marks)

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17. a) State **two** ways in which a student would use whatsapp to support his/her learning.

(2 marks)

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b) Give **one** clear difference between a blog and a wiki as electronic documents.

(1 mark)

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c) State **two** reasons to justify limited internet usage in Uganda. (2 marks)

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18. a) State **two** inbuilt electronic database functions. (2 marks)

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b) Briefly explain the meaning of the following database objects.

i) A table (1 mark)

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ii) A form (1 mark)

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c) State **one** challenge in using electronic databases. (1 mark)

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

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b) Give **two** publications that can be made with desktop publishing software (2 marks)

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c) State **two** features of an electronic desktop publishing software interface (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 plagiarism

(1 mark)

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iii) Trojan horse from a worm

(1 mark)

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iv) Digital forensics from Graphics and animations designing

(1 mark)

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b) Software patch from software release

(1 mark)

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*****END*****