Name:Index No.

School:Signature

S850/1
Subsidiary Information and
Communication Technology
PAPER 1
2% hours

WAKISSHA

Uganda Advanced Certificate of Education

SUBSIDIARY ICT

Paper 1

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

- The paper is made up of20 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.

1.   Mobile phones have become common ICT devices. Explain five powerful capabilities that come with some of the latest embedded operating systems in smart phones.

(5 marks)

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2.   A group of car mechanics has decided to buy a new printer for their workshop. The different options which are available are a laser printer, inkjet printer and dot matrix printer. How would you advise them to choose an appropriate printer for their work?

(5 marks)

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3.   Michael suspects his laptop to be carrying a computer virus because it has reduced its functionality speed. He however chooses to continue using it without servicing because it still functions anyway.

   (a)   Give two possible risks that Michael's laptop is exposed to.   (2 marks)

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(ii)..

(b) As an A 'level subsidiary ICT student, explain any three safe computer practices to guard against computer yiruses.   (3 marks)

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(ii)..

(iii)...

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4. Because of diverse range of storage needs and availability of different storage devices, users are always confused on choice. As student of subsidiary ICT.
   (a)   Explain three factors you would consider before buying any storage device

(3 marks)

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   (b)   Give two reasons as to why CD ROM's are preferred when supplying software and computer aided games.   (3 marks)

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5. Just like any other science laboratory, the computer lab should be set up with safety precautions in mind. Measures should be put in place to protect both users and machines in the lab.
   (a)   Explain three precautions to be exercised in the lab to protect computer users.

(3 marks)

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(b)   Explain two reasons for backing up data regularly.   (2 marks)

6.   (a)   Distinguish between a warranty and a guarantee.   (2 marks)

(b)   Apart from user-friendliness, give three factors you would consider before acquiring software.   (3 marks)

7.   (a)   Differentiate between a physical drive and a logical drive.   (2 marks)

(b)   Explain the importance of device manager.   (1 mark)

(c)   Discuss two causes of computer system failure. (2 marks)

8. (a) Define the term normalisation as used in databases. (2 marks)

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(b) The data below shows the design view of the table called Black with the following attributes:

Field	Data type	Size
Laptop bat_ Code	Alphanumeric	10
Brand name	Text	20
Sales price	_____	Fixed
Quantity	Number	4
Date bought	_____	Medium

i) Determine the key field for the above table. (1 mark)

_____

ii) Suggest the two missing data types for the above field names. (2 marks)

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9. (a) Discuss the concept of virtual lab in relation to e- learning. (2 marks)

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(b) Write short notes on the following term as used in the internet. (3 marks)
   i) protocol

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ii) Domain name

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iii) hyperlink

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10. Enforcing data security is an act of safeguarding data and information from loss or an authorised access. Explain how the following measures are used to protect data and information on a computer system. (5 marks)

i) Encryption

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ii Firewall

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iii) Disaster recovery plan

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iv) Surge protector

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v) Write protection on removable disks

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11. a) Define the term service utility.   (2 marks)

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      b) Explain one function of each of the following utilities.   (3 marks)

i) uninstaller

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ii Screen saver

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iii) Disk defragmenter

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12. (a) Distinguish between a Bit and a Byte (2 marks)

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      b) Convert 256 ten to binary   (3 marks)

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13. After connecting to the school's wireless LAN using his personal laptop, Mr. Okello complained about the slow speed at which his E-mail was opening: As an ICT student suggest five possible causes of the problem reported by Mr. Okello. (5 marks)

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14.(a) Describe the steps you would take when saving a word processing document with file name BOT in a new folder named History S.2A on a removable flash disk. (3 marks)

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(b) Explain two circumstances under which Mail merge tool can be used in a school setting work. (2 marks)

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15. Study the function below and answer the questions that follow:

= COUNTIF(C2:C8,">55")

a) i) Give the interpretation of the following spread sheet function. (2 mark)

_____

_____

ii)   Why are opening and closing quotations applied on >55 expression.

(1 mark)

_____

c)   Differentiate between absolute and relative cell referencing.   (2 marks)

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16.   (a)   Give two examples of traditional jobs that have disappeared because of less demand for manual work.   (2 marks)

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(b)   Describe how such jobs (manual) have been replaced by using I. T and computers.
(3 marks)

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17.   Suggest suitable input device for each of the following tasks.   (5marks)

(i)   To enter text directly into a computer. . . ..

(ii)   To capture a large number of cheques... . . ..

(iii)   To convert character from graphic back to text format. . . . .

(iv)   Mark multiple —choice type questions in an examination... . . . .

(v)   To capture human voice into sequence of electronic signals...   . . . .

18.   (a)   Explain the concept "Netiquette".   (02 marks)

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(b)   Identify any three core rules of netiquette.   (3 marks)

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19. (a)   Internet has provided many services among which is cloud computing.
          Explain the meaning of cloud computing.   (02 marks)

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    (b)   Mr. Kamoga, the laboratory attendant has been using cloud computing in the
          laboratory where he works. Demonstrate three advantages he is enjoying as a result
          of this practice.(03 marks)

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20. Artificial intellegence has become one of the innovative ways in which computers are used
     today.
     (a) Define the term artificial intellegence?   (2 marks)

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     (b) Explain three main application of artificial intelligence.   (3 marks)

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                              END