

Name:

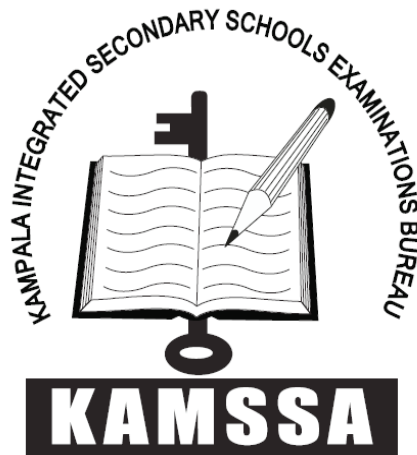
S850/1

Subsidiary

ICT Paper 1

Jul./Aug 2019

2 ½ hours



KAMSSA JOINT MOCK EXAMINATIONS

Uganda Advanced Certificate of Education

SUBSIDIARY INFORMATION AND COMMUNICATION TECHNOLOGY

Paper 1

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 carrying **5** marks.*

Write your answers in the spaces provided.

No additional materials (answer sheets) will be 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

1. (a). State the difference between **hardware** and **software**. (02 marks)

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.....
.....

- (b). Define the term data. (01 mark)

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.....

- (c). Mention **two** devices that can be used to bring out information from the computer to a computer user. (02 marks)

i.

ii.

2. The table below shows specifications of a **Laptop computer** and a **Desktop computer**.

Computer Specifications	Laptop Computer	Desktop Computer
Processor	Intel (R)3.19 GHz	Intel(R) 3308 MHz
RAM	2GB	4000MB
Hard disk	320000MB	500GB
Monitor type	LCD	LCD
Mouse connection	Wireless mouse	Cable connection

- a) Which of the two computers would you recommend for your school 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 marks)

.....
.....

3 (a). Explain the term Information and Communication Technology. (02 marks)

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.....
.....

b) State **three** ways in which information technology has made transportation efficient. (03 marks)

(i).....

.....

(ii).....

.....

(iii).....

.....

4. During a practical examination students were required to open a blank file and save it as. D:\MOCKS2019\PRACTICAL_RESULTS\work.xlsx.

(a) State the name of the immediate subfolder in which students must save the file. (01mark)

.....

b) Write the root directory onto which the file must be saved. (02 marks)

.....

c) Suggest one example of a computer application the student can use to create the file. (01mark)

.....

d) State the name of the file represented by the above file path. (01 mark)

.....

5 (a). State the difference between **system devices** and **peripheral devices**. (02 marks)

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.....
.....
.....

(b). Define the term computer literacy. (01 mark)

.....
.....

(c). Mention any **two** examples of specialised application programs. (02 marks)

i.

ii.

6. Read the statement below and write the words TRUE or FALSE in the spaces provided. (05 marks)

STATEMENT	TRUE/FALSE
(a) Machine code is one of the low level computer languages.	
(b) Linux is the only operating system used in your school.	
(c) A plotter is an output device prints images on large print media.	
(d) A student delivering a presentation would need an LCD projector and laptop.	
(e) Screen savers can be categorized as desktop publishing software since they can be used for advertising purposes.	

7 (a). What is preventive maintenance?

(01 mark)

.....

(b). Write two tools used during computer repair in a computer laboratory.

(02 marks)

i.

ii.

(c). Mention **two** reasons for servicing computers.

(02 marks)

i.

ii.

8 (a). Define the term system configuration.

(01 mark)

.....

(b). In relation to booting a computer, state one function of the following:

(i). pressing **F12**

(01 mark)

.....

(ii). BIOS

(01 mark)

.....

(c). State **two** reasons a user may restart a computer.

(02 marks)

i.

ii.

9 (a). What is a computer virus?

(01 mark)

.....

- (b). State **two** ways computer viruses are transmitted. **(02 marks)**
-
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(c). Mention how the following can control the spread of computer viruses:

- (i). Antivirus program. **(01 mark)**
-
-

- (ii). Use of passwords. **(01 mark)**
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-

10. (a) Madam Jembe, a database administrator Mucomo secondary school has been requested to generate students who are below 18 years in s.4 table with the following field names.

<i>Index no.</i>	<i>Surname name</i>	<i>Other name</i>	<i>Class</i>	<i>Date of birth</i>	<i>Age</i>

Write down the criteria that can be used in a query to generate the list. **(02 marks)**

.....

.....

(b) Suggest a database object that can be used to view one record at a time. **(01 mark)**

.....

(c) Explain one factor to consider when choosing or designing a database. **(01 mark)**

.....

.....

(d). Give **one** example of this program used in your school. **(01 mark)**

.....

11 (a). What is integrated software? **(01 mark)**

.....

.....

(b). Give the difference between **shareware** and **freeware**. **(01 mark)**

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.....

(c). Write short notes on the following:

(i). software piracy. (01 mark)

.....

(ii). Software bug. (01 mark)

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(iii). Programming language (01 mark)

.....

12 (a). State **two** advantages of using e-commerce in business. (02 marks)

- i.
- ii.

(b). Mention **one** example of web browser. (01 mark)

.....

(c). what is a:

(i). Weblog? (01 mark)

.....

(ii). Search tool? (01 mark)

.....

13 (a). Define the term computer communication. (01 mark)

.....

(b). Mention any **two** tools of computer communication. (02 marks)

.....

(c). Give **two** advantages of telecommuting to an institution like a school. (02 marks)

- i.
-

- ii.
-

14 (a). Write the following acronyms in full:

(i). DSTV (01 mark)

.....

(ii). ISP (01 mark)

.....

(iii). TCP/IP (01 mark)

.....

(b). Mention any **two** factors you will consider before establishing a network.

(02 marks)

- i.
- ii.

15 (a). Define wireless transmission medium.

(02 marks)

.....
.....

(b). Mention **one** danger of using wireless communication in an organisation.

(02 marks)

.....

(c). Why are majority of organisations still using cable networks?

(01 mark)

.....

16 (a). Distinguish between Peer-to-peer and Client/Server network models. (02 Marks)

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.....

(b) Explain two limitations of using Bluetooth technology as a method of data transmission.

(02 Marks)

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.....

(b) Give **one** reason why a Modem is required in a data communication system.

(1 Mark)

.....
.....
.....

17 (a). State any **two** applications of artificial intelligence today in computing.

(02 marks)

- i.
- ii.

(b). Mention **one** branch of digital forensics.

(01 mark)

.....

(c). (i). What is **cloud computing**?

(01 mark)

.....
.....

(ii). Give **one** advantage of cloud computing.

(01 mark)

.....
18. Data and information is always under constant threat from people who may want to access it without permission, such people usually have bad intention to commit crimes.

(a) As an ICT learner define the term Social engineering.

(02 marks)

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.....
(b) Show three ways how unauthorized access to data and information in an organization can take place.

(03 marks)

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.....
19. (a) Describe the term emerging technologies.

(02 marks)

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.....
(b) List three technologies and innovations in the area of health.

(03 marks)

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20.(a). Outline two duties carried out by:

(i). Data centre support specialist.

(02 marks)

.....
.....
(ii).Network Architect.

(02 marks)

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.....
(b). Mention **one** way you can care for a school network.

(01 mark)

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End