S850/1
SUBSIDIARY ICT
Paper 1
2 ½ hours

KASSEC

KAYUNGA SECONDARY SCHOOLS EXAMINATIONS COMMITTEE (KASSEC)
JOIN MOCK EXAMINATIONS 2019
Uganda Advanced Certificate of Education
SUBSIDIARY ICT PAPER I
(Application of ICT Knowledge)
2 hours 30 Minutes

INSTRUCTIONS TO CANDIDATES:

- Attempt **ALL** questions in this paper
- The paper is made up of 20 equally weighted questions.
- Write in dark blue or black pen in the spaces provided on the Question Paper. All answers should be written in the spaces provided.
- No additional materials (answer sheets) are required.

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

1. Identify five examples of adapter cards found in a system unit. (05 *marks*)

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2. (a) Differentiate between teleconferencing and video conferencing

(02 *marks*)

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(b) What are some of the requirements for one to carry out video conferencing? (03 *marks*)

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3. (a) State *two* uses of televisions as forms of ICT for information management in society (02 *marks*)

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Scanned by CamScanner

(b)The mobile phone revolution is hitting the world as a storm. As an IT person state *three* areas this revolution is hitting most.   (03 *marks*)

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4. The science of "**Ergonomics**" looks at comfort, efficiency and safety in the ICT work environment, as a member of ICT show how ergonomics is being (or can be) provided for in your school and ICT systems.   (05 *marks*)

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5. (a)Differentiate language processors from programming languages.
     (02 *marks*)

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(b)Specify the functions of the following language processors.
     (03 *marks*)

(i)   Linkers

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(ii)   Compilers

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(iii)   Interpreters

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6. (a) Give the file extension, of any two of the following file types.

(02 marks)

File type	File extension
Executable file	....
Motion pictures	....
Ms Excel	....

(b) Give **two** examples of **file attributes.**   (02 marks)

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(c) State **one** function of a file in a computer system   (01 mark)

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7. (a) Identify **three** signs or symptoms of operating system failure. (03 marks)

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(b) Give **two** qualities of good software. (02 *marks*)

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8. (a) Briefly show where you would use the following document referencing features embedded in electronic Word Processors.

Table of contents: (1 *mark*)

....

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Caption: (1 *mark*)

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Bibliography: (1 *mark*)

....

....

Footnote: (1 *mark*)

....

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Index: (1 *mark*)

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9. (a) Briefly explain the term protocol (02 *marks*)

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(b)Specify the function of each of the following protocol;   (03 marks)

(i)   HTTP

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(ii)   VOIP

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(iii)   FTP

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10.   Using the table below answer the questions that follow: (05 marks)

	A	B	C	D	E
1	ITEM	PRICE	QUANTITY	VALUE	
2	MANGO	300	4	1200	
3	ORANGE	250	3	750	
4	PASSION	370	4	1480	
5	TOTAL				
6	MAXIMUM PRICE				
7	AVERAGE				

(i)   Write a formula to display the value (price by quantity) for each item in column D

....

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(ii)   Calculate the total quantity in cell C5

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(iii)   Write a formula to calculate the total value and display it in cell D5

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(iv)   Write a formula to display the maximum price in cell B6.

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(v)   Write a formula to calculate the average quantity and display in Cell C7

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11.   (a) Distinguish between synchronous and asynchronous data
       communication modes   (1 *mark*)

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(b) State any *two* data communication devices   (02 *marks*)

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(c) State **two** factors you would consider when choosing a data communication mode. (02 *marks*)

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12. (a) State one difference between computer ethics and legal issues. (02 *marks*)

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(b) State any **three** unethical practices usually engaged in by ICT users. (03 *marks*)

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13. Describe the following terms in relation to a database management systems (DBMS).
(i) record (01 *mark*)

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(ii) Field (01 *mark*)

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(iii) Query (01 *mark*)

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(iv) Key field (01 *mark*)

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(v) Data type (01 *mark*)

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14. (a) What do you understand by the term computer communication? (02 *marks*)

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(b) Suggest the differences between analog signal and digital signal. (02 *marks*)

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(c) Identify one area in where analog signals are applied   (01 *mark*)

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15.   Explain the following terms used by electronic mail account users.
                                        (05 *marks*)

Login:

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Compose

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Inbox

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Sign out

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Forward

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16. (a) State **three** reasons to justify the need for securing ICT systems.
(05 *marks*)

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(b) Briefly describe the following measures of securing digital content.
i) Audit log: (1 *mark*)

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ii) Legislation: (1 *mark*)

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17. Indicate **True** or **False** against each statement in the table below

(05 *marks*)

		True/False
(a)	Cell referencing relates to giving identity to a cell or a group of cells in a worksheet by their column header and row number.	
(b)	Absolute referencing Is a form of cell addressing where the created formula gives the same results when copied to a different cell.	
(c)	Relative referencing Is a form of cell addressing where the formulated equation give varying results according to where it is copied.	
(d)	Digital forensic is a branch of science that encompassing the recovery and investigation of material found in digital devices, often in relation to computer crime	
(e)	Netiquette these are moral guidelines governing the use of computers	

18. (a) Differentiate between Hacking and Cracking. (02 *marks*)

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(b) Identify 3 ways how you can secure your data from the above computer crimes. (03 *marks*)

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19. (a) NSSB's network access speed is 5 megabytes per second. How many kilobytes of data can an internet user for that net work be in position to receive or send per second? (02 *marks*)

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(b) Identify three factors that affect network access speed. (03 *marks*)

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20. (a) Identify any two features that are typical of electronic publishing software. (02 *marks*)

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(b) Mention three publications that can be published on line. (03 *marks*)

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END