	.a·
Name	
451/1	K. O. C.
<b>Computer Studies</b>	Candidate's signature
Paper 1	Coop of the coop o
(THEORY)	e <sup>sto</sup>
July/AUG 2014	& Company of the Comp
2½ hours	
, six	
BUSIA COUTY JO	DINT EVALUATION EXAMINATIONS-2014
	va Certificate of Secondary Education

Computer Studies
Paper 1
(THEORY)

INSTRUCTIONS TO CANDIDATES

Write your name and index number in the spaces provided above.

Sign and write the name of examination in the spaces provided above.

This paper consists of **TWO** sections; **A** and **B**.

Answer ALL the questions in section A.

Answer question 16 and any other THREE questions from section B. All answers should be written in the spaces provided on the question paper.

For official Use Only			
Section	Question	<b>Candidates Score</b>	
A	1-15		
	16		
В	17		
	18		
	19		
_	20		
TO	TAL SCORE		

This paper consists of 10 printed pages

SECTION A- Answer all the questions in this section 1. What is a computer drive? (1 Mark) 2. Mr. Osanoa computer technician in one of the schools used speech method to store students oral answers to an exam into a computer a) What is a speech input? b) State one advantage and one disadvantage of using this kind of input. (2 Marks) In reference to ALU, explain the meaning of logic operations and give an example of this processing operation. 4. a) Identify the four types of storage media shown below (2Marks) iii iv b) Compare the storage device (i) and (iii) above (1Mark) 5. a) Define the term firewall (1 ...... b) State three ways of ensuring efficient backup of data (1½Marks) 6. a) Outline the three program control structures

	b) Give three types of selection construct	(1½Marks)
	c) Define the term encapsulation as applied in object oriented programming	
	$\kappa_{h}$	
	4 to 1 to	
7	. i) What is Hypertext Mark Up Language?	(1Mark)
	4C	
\$ <sup>*</sup>	(1Mark)	
Wote		
8	. A student was reading through a daily newspaper on different types of data communica As a computer student, how will you assist him define the term data communication me	
9	. i) Differentiate between share level security and user level security as used in network s	ecurity.
	(2Marks)	
	ii) What are the differences between Token ring topology and Ethernet topology?	(2Marks)
		(21/141115)
1	0. i) Describe the term biometric analysis	(1Mark)
1		(11viaik)
1	1. Give two uses of spreadsheets in a government office concerned with carrying out nation	onal census (2Marks)

	co <sup>ff.</sup>	
	<b>Landing</b>	
12.	i) A student at Sunshine secondary school was working with a computer using the	
	operating system. After sometime he started experiencing the following problems	•
	<ul> <li>The computer failing to load the Operating system during the booting process</li> <li>The computer hangs now and then</li> </ul>	
	- Abnormal restarting	
	<ul> <li>Display a blue screen with the message such as fatal exception error has occur</li> </ul>	red
	What could be the cause of the above problems?	(2Marks)
		•
	et.	
		•••••
		•
	<u>\$</u> .	
	. <sub>4</sub> C.	
(	2)	•
\$^y	ii) A student was advised by the teacher to buy integrated software over separate softw	are. What do you
У	think could be the advantages of this?	(2Marks)
		•
		••••••
		•
10		(43.5.1)
13.	a) What is a deadlock?	(1Mark)
		• • • • • • • • • • • • • • • • • • • •
	b) Explain the term plug and play	•••••
	b) Explain the term plug and play	
	(1Mark)	•••••
		•••••
		•
	c)Differentiate between a program file and a data file	
	(1Mark)	
1.4	i) State two factors you would consider when designing a file	(1Marls)
14.	i) State two factors you would consider when designing a file	(1Mark)
	ii) List down three factors you need to consider during file conversion	•••••
	(3Marks)	
	(Smarks)	
	•••••••••••••••••••••••••••••••••••••••	•••••
	••••••	
15	State two limitations of language processing	(2Marks)
10.		· · · · · · · · · · · · · · · · · · ·
014		ıge 4 of 11

\$0°



Answer question 16 and any other three questions from this section in the spaces provided.

16. (a) State the importance of the following in programming

(i)	Assembler	way.	(1mk)
	<u>3</u> *	e v	
(ii)	Compiler Que Compiler		(1mk)
	Pas		

(b) A form four class sat for an exam in eight subjects. A student must get an average of 50% in all subjects in order to pass. A report is required that will show the name, marks obtained by each student per subject, the average mark and whether the student has passed or failed.

(i) **Write** a pseudocode used to solve this problem. (6mks)

(ii) Draw a flow chart for this report.

(7mks)

	(11/marks)
2000	(172111a1KS)
. (a)(i)State any THREE standard coding schemes used in computing and electron	
(ii) Convert 312 <sub>10</sub> using any TWO of the above mentioned coding schemes.	
	(2 marks
$\overset{\star}{\gamma}_{\lambda}$	
gert of the second seco	
6 <sub>92</sub>	
go <sup>x</sup>	
ACSY	
20	
\$t	
Arce KCSt Past Paperts  Arce (iii) Using TWOs compliment, perform the following withmetic leaving your one	
(iii) Using TWOs compliment, perform the following arithmetic leaving your ans	swer inbinaryform
	(2mark
$10_{10} - 13_{10}$	
1010 1310	
(iii) Use one's compliment to solve the following sum: $-18_{10}+12_{10}$	(2 ½ marks
) (i) Explain the difference between the terms <b>browser</b> and a <b>search engine</b> with an exam	nple of each (3mai
, (-)	-1

(ii	i) What is the use of the <b>favorites</b> feature of an Internet Frowser?	(1 mark)
	i) What is the use of the <b>favorites</b> feature of an Internet Frowser?	
	iii) What do the following abbreviations stand for?	(3 marks)
(-	, a. ·	(======================================
	i.URL	•••••
	ii. ISP	
	iii. WWW	
18	8. (a) Differentiate between the following as used in word processing	(6marks)
	(i) An indent and a tab stop	
.0	- <sup>©</sup> ξ <sup>γ</sup>	
401		
	(*) <b>T</b> • 1 44	•••••
	(ii) Margins and gutter	
	(iii) Footnotes and Endnotes	
	(b) A History teacher directed all students to present their work in double space format. Ou	_
	double spacing a document.	(3marks)
		•••••

(c) Owili, a form Four student, formatted a document to four processing		(3mark
<b>€</b> .∕C		
.G		
oate		
NI : 420 I I I I I I I I I I I I I I I I I I I		••••••
Ndwiga printed documents with paper layout as shown be	low.	
₹ <sup>C</sup> C	В	
A A		
(i) Identify the layouts.		(1marl
(ii) Explain when each layout should be applied		(2mark
		•••••
	•••••	••••••
	•••••	•••••
(a) Computer students visited KASSUJET TV station in the cit was communicating in real time with other four reporters throu notebook PC nearby. The live images of the other reporters we	gh a web cam and a microphone	connected to a
studio.		
Describe this type of communication.	(2 m	narks)
		• • • • • • • •

(ii) State any TWO advantages and ONE disadvantage of this type of communication.	(2 marks)
.e <sup>Q</sup>	
et e	••••••
······································	
with:	
· · · · · · · · · · · · · · · · · · ·	
(b) Currently there is a shift in technology towards digital from analog. State any THREE advanta	
technology over analog technology.	(3 marks)
, o	•••••
o <sup>*</sup> ······	•••••
(c) (i) Documentation is usually not considered as a programming stage. Why is this so?	(2 marks)
(ii) Differentiate between internal and external documentation.	(2 marks)
(ii) Birterentate between internal and external documentation.	(2 marks)
(ii) State THREE types of documentation that are available at the end of the programing project.	(3 marks)
	•••••

20. Martina Lotino went to the supermarket and bought the items shown in the picture of the spreadsheet given below: age Form Data Revie View Add-Description Unit Price Quantity Sub Total 5 For More Free Acist Past Pagi bread loafs 3 65 100 2 80 cheese **Total Price** 11 Cash 12 Return (a.) (i) What is the name of the **active sheet**? (1 mark) (ii) By looking at the above picture, give the **reference of an active cell**. (1 mark) (iii) What function did the examiner use to **copy** the above picture on this examination paper? (1 mark) (b) (i) A cell can contain a formula. **Name** the other TWO items which a cell can contain. (2 marks) (ii) Now, Julieta, a new employee, has just joined the company and does not know the difference between a formula and a function. You are required to explain this to her in the space provided below. Support your explanation with an example of each. (4 marks) Formula: ..... Function:

(c) (i) Write the **formulae** that must be typed in the following two cells: **D5**, **D7** 

(2 marks)

		•		
(ii) Write the function that	must be typed in cell <b>D9</b> :	KPaperts		(2 marks)
		· · · · · · · · · · · · · · · · · · ·		
	r-cott			
(iii) The bill total in cell	D9 amounts to Ksh.860 M	artina has a Ksh.1000 no	te. Write the formula that	calculates the
change in <b>D12</b> .	digit.			(2 marks)
<u> </u>	<i>\delta</i>			
Le free CSt Pate				
& Cee				
iste				