Name	
451/1	
Computer Studies	Candidate's signature
Paper 1	curature 5 organicus cumumumumumumumumumumumumumumumumumumum
(THEORY)	
July/AUG 2014	
2½ hours	

BUSIA COUTY JOINT EVALUATION EXAMINATIONS-2014

Kenya 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	Candidates Score
A	1-15	
	16	
В	17	
	18	
	19	
	20	
TOT	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? (1 Mark) b) State one advantage and one disadvantage of using this kind of input. (2 Marks) 3. 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 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 (2Marks) (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	
7.	i) What is Hypertext Mark Up Language?	(1Mark)
	ii) Why should a program be documented in each and every stage? (1Mark)	
8.	A student was reading through a daily newspaper on different types of data communicated As a computer student, how will you assist him define the term data communication me	dia? (1Mark)
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)
10	. i) Describe the term biometric analysis	(1Mark)
11	. Give two uses of spreadsheets in a government office concerned with carrying out natio	nal census (2Marks)

12. i) A student at Sunshine secondary school was working with a computer using the windows operating system. After sometime he started experiencing the following problems. The computer failing to load the Operating system during the booting process The computer hangs now and then Abnormal restarting Display a blue screen with the message such as fatal exception error has occurred. What could be the cause of the above problems? (2Marks) ii) A student was advised by the teacher to buy integrated software over separate software. What do you think could be the advantages of this? (2Marks) 13. a) What is a deadlock? (1Mark) b) Explain the term plug and play (1Mark)..... c)Differentiate between a program file and a data file (1Mark)..... 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)..... 15. State two limitations of language processing

SECTION B (60 marks)

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

16. (a) Stat	te the importance of the following in programmi	ng
(i)	Assembler	(1mk)
(ii)	Compiler	(1mk)
(b) A	form four class sat for an exam in eight subjects	A student must get an average of 50% in all
su	bjects in order to pass. A report is required that v	vill show the name, marks obtained by each
stu	ident 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)

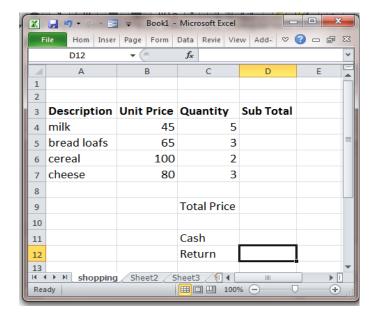
	(1½marks)
ii) Convert 312 ₁₀ using any TWO of the above mentioned coding schemes.	(2 marks
(iii) Using TWOs compliment, perform the following arithmetic leaving your ar	nswer inbinaryform (2marks
10 ₁₀ - 13 ₁₀	
(iii) Use one's compliment to solve the following sum: $-18_{10}+12_{10}$	(2 ½ marks
(i) Explain the difference between the terms browser and a search engine with an exa	mple of each (3mar)

What is the use of the favorites feature of an Internet browser'?	(1 mark
What do the following abbreviations stand for?	(3 marks
.URL	
i. ISP	
ii. WWW	
(a) Differentiate between the following as used in word processing (i) An indent and a tab stop	(6marks
(ii) Margins and gutter	
(iii) Footnotes and Endnotes	
(m) 2 doublets and Emanyees	
Th) A History too show directed all students to present their work in down	ale among format. Outling the managedum for
(b) A History teacher directed all students to present their work in double spacing a document.	one space format. Outline the procedure for (3marks)

В	
	(1mar
	(2mark
cam and a micropho	ne connected to a
(2 marks)
	oticed that the News particle of the cam and a microphoteted on a white board is

(ii) State any TWO advantages and ONE disadvantage of this type of communication.	(2 marks)
(b) Currently there is a shift in technology towards digital from analog. State any THREE advantage technology over analog technology.	ges of digital (3 marks)
(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)
	(2 1)
(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:



(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)
	Now, Julieta, a new employee, has just joined the company and does not know the difference betwand a function. You are required to explain this to her in the space provided below. Support you with an example of each.	veen a formula ur explanation (4 marks)
	Formula:	
	Example:	
	Function: Example:	
(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 D9 :	(2 marks)
(iii) The bill total in cell D9 amounts to Ksh.860 Martina has a Ksh.1000 note change in D12 .	