Name	•••••
DateStudent's Signature	•••••
FRIENDS GIANCHERE SECONDARY SCHOOL FORM 3 451/1 COMPUTER STUDIES PAPER 1 (THEORY) MARCH 2023 TIME: 2 ½ HRS	
1.(a) Headache, back and neck pain may result from use of computers. Explain two way	ys in which
back and neck pain can be minimized.	(2mks)
(b) State how computer have been made more users friendly for persons that are:	
(i) Blind	$(^1/_2\text{mk})$
(ii) Without hands	nk)
2. The diagram below represents the essential features of a computer system. Study the answer the questions that follow: Output device Secondary storage	e diagram and

(a) (i) Name and describe the following components	(4mks)
A	
B	
C	
D	
(ii) On the diagram above, indicate the direction of data flow using arrows	(1mks)
3. KASSU High School intends to purchase new computer to be used by students	in the e-learning
room for accessing digital learning resources and personal research. Advise the sc	chool on two
computer hardware system specification features to consider as a measure of enhance	ncing performance
of the computers.	(2mk)
4. Describe the following terms as used in Microsoft Word.	(1mks)
(a) Text wrapping	
(b) Column breaks	(1mks)

5.(a) What are the following errors as displayed in a spreadsheet cell	
(i) ####	(1mk)
(ii) ##NUM!	(1mk)
(b) State the importance of the following terminologies as used in SPREADSHEETS.(i) total function	(1 marks)
(ii) legend	(1 marks)
7. Differentiate between <i>save and save as</i> , as used in word processing	(2 mks)
11. Define <i>overflow error</i> with respect to computation of data	(1mk)
12. A) (i) What is a Blog in relation to internet services	
(ii) Explain the impact of the internet in the information security	(2marks)

(b) State any three features of a word processor	(3marks)
	•••••
	•••••
(c) Differentiate between the following in relation to data security and control (i) <i>Password</i> and <i>biometric</i> authentication.	(4 marks)
(ii) Privacy and Confidentiality.	
	••••••
(d) Computer crimes include <i>Trespass</i> , <i>Hacking</i> , <i>Piracy</i> and <i>Sabotage</i> . Highlight eac	h of them.
	(4 marks)
	•••••

13. (a)(i) What is the hexadecimal equivalent of 6768	(2 Marks)
(ii) Use one's compliment to solve the following sum: - 12+25	(2 Marks)
(iii) Convert 34.175 ₁₀ to its binary equivalent.	(2 Marks)

(b) Using six bits find the two's complement representation of -27_{10}	(5 marks)
(c) Find the difference in the following binary numbers;	(4 marks)
(i) 111011-10001	
(ii) 100011.101-1001.10	

14. (a) (i) Define Data Communication.	(2 marks)
v	(3 marks)
(ii) Distinguish between <i>software installation</i> and <i>software configuration</i> is operating system	n relation to (2 marks)
(b) Abraham would like to distinguish between <i>System Tray</i> and <i>Task Manage</i>(i) Where are these TWO found?	(1 mark)
(ii) How are they different?	(2 marks)
(c) In relation to operating system, differentiate between;(i) Kernel and Shell.	(2 marks)

(ii) Process and Page.	(2 marks)
(d) Mobile Operating System (OS) is software that allows Smart devices to run applications and programs. List any THREE exam Systems	
•	(3 marks)