KCSE 2017 – COMPUTER STUDIES - 451/1 done on 10/11/2017.

SECTION A (40 MARKS)

display the results.

1.	State the meaning of the term computer software.	(2 marks)	
2.	State three features of fifth generation computers	(3 marks)	
3.	Differentiate between home page and web page as used in the internet	(2 marks)	
4.	State three characteristics of mainframe computers	(3 marks)	
5.	The management of an organization intends to purchase a printer. State this	ree factors that they should	
	consider during purchase.	(3 marks)	
6.	Describe each of the following computer cables:		
	a.) Paralel cables;	(2 marks)	
	b.) Serial cables;	(2 marks)	
7.	A computer technician has observed a lot of dust on the computers in comp	outer laboratory. State three	
	precautions that need to be put in place to avoid this.	(3 marks)	
8.	Explain the term proofreading as used in word processing.	(2 marks)	
9.	ing a word processor:		
	a.) End	(1 mark)	
	b.) Insert	(1 mark)	
	c.) Backspace	(1 mark)	
10	O. Explain two problems associated with the computer hard disk.	(4 marks)	
1	1. State the spreadsheet function that can be used to obtain each of the following	nction that can be used to obtain each of the following values in a worksheet:	
	a.) Number of cells with values in a column.	(1 mark)	
	b.) Mean of values in a range of cells.	(1 mark)	
12	2. A school intends to install wireless media in their communication system	n. State advantages of this	
	mode of communication media.	(3 marks)	
13	3. State two ways in which one can create a password which cannot be easily a	ccessed by hackers.	
		(2marks)	
14	4. State two ways through which a computer user can minimize Repeti	tive Strain Injuries (RSI)	
	associated with the use of a computer.	(2 marks)	
1.5	5. Identify four tasks that can be achieved using a Desktop Publishing program	n from the following list of	
	tasks.	(2 marks)	
	i.) Managing students records in school		
	ii.) Creation a calendar		
	iii.) Designing a building structure		
	iv.) Creating a banner		
	v.) Creating a book cover		
	vi.) Processing of examination results		
	vii.) Creating business cards.		
SECT	FION D (40 montes)		
SECI	FION B. (60 marks)		
10	6. (a.) state two qualities of a good pseudo code	(2marks)	
	(b.) With the aid of flowchart diagrams, describe each of the following prog		
	(i.) Sequence	(3 marks)	
	(ii.) Section	(3 marks)	
	(c.) Draw a program flowchart that would accept three numbers and fine		
	greater than 200, it add 30 to the sum, otherwise subtracts 20 from the sum	. The program should then	

17. (a.) Describe three arithmetic errors that may occur during computerized data processing (6 marks)

(7 marks)

	(b.) Arnold a programmer intends to create a user input interface for a system. State three factors that		
	he should consider.	(3 marks)	
	c.) With the aid of an example in each case describe the following types of maintenance.		
	i.) adaptive;	(2 marks)	
	ii.) perfective;	(2 marks)	
	iii.) Corrective.	(2 marks)	
18.	(a.) Distinguish between a Microwave transmission and Radio transmission. (4 marks)		
(b.) Figure 1 shows a computer network topology. Use it to answer the questions that follow.			
	i.) Identify the type of topology.	(1 mark)	
	ii.) State the function of each of the parts labeled A and B.	(4 marks)	
	(c.) A computer laboratory experiences power supply problems. Describe three power related proble		
	that should be addressed.	(6 marks)	
19. (a.) A school has been advised to employ a database administrator. State three response		responsibilities of this	
	personnel in the school.	(3 marks)	
	(b.) Explain two ways in which computers can be used in transport industry	(4 marks)	
	(c.) Mary was advised to partition a hard disk for her computer. Explain two reasons that may		
	necessitated this.	(4 marks)	
	elopment:		
	i.) Schedule feasibility;	(2 marks)	
	ii.) Technical Feasibility.	(2 marks)	
20.	(a.) Explain three functions of an information system in an organization.	(6 marks)	
	(b.) Explain two benefits that a company would gain from using batch processing method for data		
	processing.	(4 marks)	
	(c.)		