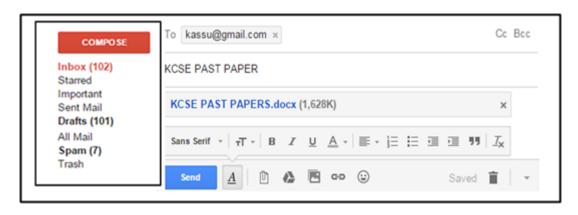
### **SUNSHINE SECONDARY SCHOOL MOCK 2019 COMPUTER PAPER 1**

SECTION A (40 Marks)
Answer all questions in this section

	Give <b>TWO</b> reasons why Powder type fire extinguishers are not recommendate computer laboratory.	(2 Marks)
		•••••
	State the purpose of each of the following memories in a computer system. ( ) ROM	
(i	i) RAM	• • • • • • • • • • • • • • • • • • • •
		• • • • • • • • • • • • • • • • • • • •
3. \$	State two factors that one would consider when selecting data entry method	(2 Marks)
		• • • • • • • • • • • • • • • • • • • •
	Describe the following types of printers and state one application area of each Dot matrix	ch.(3Marks)
	a) Dot matrix	

	(b) Thermal printer.	
5.	Differentiate between in-house software and freeware.	(2 Marks)
6.	Give two importance of feedback mechanism in systems	(2 Marks)
• • •		
• • •		
•••		
• • • •		
•••		
7.	With an aid of a diagram, explain one-to-one database relationship.	(2 Marks)
		• • • • • • • • • • • • • • • • • • • •
		• • • • • • • • • • • • • • • • • • • •
8.	KASSU Secondary School intends to set up internet connection in their school purposes. Advise the school management on four internet connectivity requirer	for e-learning nents that is
	required for them to be able to access internet.	(2 Marks)
		• • • • • • • • • • • • • • • • • • • •
		• • • • • • • • • • • • • • • • • • • •

9. The figure below shows an extract of an e-mail application.



What is meant by each of the following terms:	(3 Marks)
(a) Trash	
( <b>b</b> ) Spam	
(c) Inbox	
	•••••
	•••••
	•••••
10. State two ways in which users in an organization can be a securit information system.	ty threat to data in an (2 Marks)
	· · · · · · · · · · · · · · · · · · ·
11. State three negative impact of information communication technology	ology on the Environment. (3 Marks)
	•••••
	•••••

12. In a compu	ter based information system, state the purpose of the following	g files and give
one examp	le where such a file may be required in a school.	(4 marks)
a. Repo	ort file.	
	ons.	
b. Sort	file.	
•••••		
	responsibility of a Database administrator in an organization.	
•••••		
•••••		
•••••		
4. With an e	xample for each, describe how computers are used in the f	ollowing areas
education;		(3 Marks)
a. Simi	ulation	
b. Tuto	rial	
		• • • • • • • • • • • • • • • • • • • •

15. a. Dan a computer student noticed that every time a person enters the computer screen flickers. Identify three reasons why the monitor might	-
b. State two ways in which the problem can be solved	(2 Marks)
	,

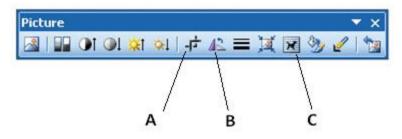
# SECTION B (60 Marks)

# Answer question 16 and any other three questions

16. a. State two advantages and two disadvantages of high level programming lan	guage (2 Marks)
	(2 Marks)
	• • • • • • • • • • • • • • • • • • • •
b. State three situations when REPEAT UNTIL structure can be used in writing	a program
	(3 Marks)
	(3 Marks)
	• • • • • • • • • • • • • • • • • • • •
	•••••
	•••••
c. The roots of the equation $ax^2 + bx + c = 0$ are given by the formula	
$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$	
i. Write a pseudocode for the above program	(5 Marks)

ii. Draw a flow chart for the above pseudocode	(5 Marks)
	• • • • • • • • • • • • • • • • • • • •

# 17. (a) (i) The figure below shows a picture tool bar



Name and state the functions of the features marked A, B and C:

	A	
(ii)	В	(1 Mark)
(iii)	C	(1 Mark)
(b) State	e the importance of Column breaks as used in word processor.	(1 Mark)
(c) Chan	ge case is where a user applies so that the text can have some contrast in goight all SIGNAL  (i) Title case	
	(ii) Toggle case	

1	Define the followi	ng terms as used				(2 Marks)
	(i)		Legend			
•						
						· · · · · · · · · · · · · · · · · · ·
	(ii) Data range					
	(II) Data range					
			• • • • • • • • • • • • • • • • • • • •			
	•••••		• • • • • • • • • • • • • • • • • • • •			
_	The table below sho	ows how a kiosk	owner uses a	spread sheet to	o keep records	s in a shop.
	A	В	С	D	Е	F
	ITEM NAME	NUMBER OF ITEMS	UNIT COST	TOTAL BUYING PRICE	TOTAL SELLING PRICE	PROFIT
	Blue band	150	120			3600
	Toss	135	50			1350
	Cow boy	120	120			2880
	Panga soap	118	50			1180
	(I) Write a <b>functio</b>					(2 Marks)
	(II) Write a <b>formul</b>	a to calculate the	Profit.	•••••		( 2 Marks
	placed in ce	uying prices of a ell B6. Using cell e Total Selling P	addresses w	ith absolute ref		
	•••••					
	(IV) State the ou	tnut of the expre	ccion –SHM	IE(E2·E5 "~1.5	00")would ret	urn (1 Mar
	(IV) State the ou	tput of the expre	ssion =SUM	IF(F2:F5,"<1 5	00")would ret	urn.(1 Mar
	(IV) State the ou	tput of the expre	ssion =SUM	IF(F2:F5,"<1 5	00")would ret	urn.(1 Mar
	(IV) State the ou  a. Describe the ter					

......

	(i) $0.78125_{10}$ to binary	(2 Marks)
• • • • • •	(ii) 3A9 <sub>16</sub> to Octal	(2 Marks)
Ć	c. Perform the following binary operation. 1010.11+111.10-101.11	(3 Marks)
	d. Using one's complement, perform the following binary arithmetic decimal notation. $17_{10}$ - $45_{10}$	leaving the answer (6 Marks)
• • • • • • •		
• • • • • •		

b. Convert each of the following numbers system.

	Guided transmission medium and unguided transmission media
• • • • • • • • • • • • •	
•••	Nankintonia and demokintonia
ii.	Multiplexing and demultiplexing
• • • • • • • • • • • • •	
iii.	Logical and physical Topology
• • • • • • • • • • • • • • • • • • • •	
23.0	v is a diagram of a network topology.
Belov	

ii.	State two advantages and two disadvantages of using the topology named	above
		(4 Marks)
		` '
•••••		
•••••		• • • • • • • • • • • • • • • • • • • •
•••••		• • • • • • • • • • • • • • • • • • • •
c.	List and explain the two data transmission techniques	(4 Marks)
		,

b.	State any fou	ir factors to coi	nsider when	selecting an o	operating system	em (4 Marks
			• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		
c.	Explain any	four factors t	hat dictates	how the op	erating syster	n organizes data
	computer					(4 Marks
				• • • • • • • • • • • • • • • • • • • •		
••••						
••••						
				• • • • • • • • • • • • • • • • • • • •		
				• • • • • • • • • • • • • • • • • • • •		
			• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		
				• • • • • • • • • • • • • • • • • • • •		
				• • • • • • • • • • • • • • • • • • • •		
				• • • • • • • • • • • • • • • • • • • •		
	1 5 6	.1	1	.•	,	/4 <b>3</b> F - 3 \
	d. Define t	the term file in	relation to th	ne operating s	system	(1 Mark)
			• • • • • • • • • • • • • • • • • • • •	•••••		
	• • • • • • • • • • • • • • • • • • • •					
•••				• • • • • • • • • • • • • • • • • • • •		

	e.	The operating system stores details of a file for easy identification	res details of a file for easy identification and retrieval of			
		files. Explain any four file details the operating system uses to search	ch and identify a			
		file	(4 Marks)			
• • •						
• • •						
• • •						
• • •						
• • •	• • • • •					
	f.	Distinguish between a menu driven operating system and graphica	al user interface			
		operating system	(2 Marks)			
			• • • • • • • • • • • • • • • • • • • •			
• • • •	• • • • •		•••••			
	••••		• • • • • • • • • • • • • • • • • • • •			