## COMPUTER STUDIES HOLIDAY PACKAGE: SECTION B QUESTIONS:

1.	a) Explain the term spreadsheet as used in computer studies.	(02 marks)
b) Naı	me three types of data that can be placed in a spreadsheet c	eell. (03 marks)
c) Wh	at is the use of a formula in spreadsheet?	(01 mark)
d) Des	scribe with illustrations, how a shopkeeper can use spreadshe	ets to keep records of her/his
busine	ess. (04 marks)	
2.	a)List four advantages of a hard disk over a compact disc(Cl	D) (04 marks)
b) Des	scribe the following:	(06 marks)
	sh memory	
	otical Character Recognition	
` '	aser printer	
` ′	(a) (i) What is computer communication?	(02 marks)
	(ii) State any two advantages of using e-mails.	(02 marks)
	(b) Explain the functions of the following:	(•= :::::::)
	(i) Web server	(02 marks)
	(ii) FTP	(02 marks)
	(iii) HTTP	(02 marks)
4.	A senior four class in Naluwelere S.S. has formed a club. A file nam	ed CLUBMATES is to be kept by
	the secretary of the club. The design of CLUBMATES has the	following fields:
	NAME, MEMBERSHIP-NUMBER, SEX, AGE and TELEPHONE.	
	a) Suggest a primary key for CLUBMATES. Explain why it (03 marks)	is chosen as the primary key.
	b) If the longest name in a class is Sangalyambogo, sugge (01	st the minimum field length. mark)
	c) Why is it not a good idea to use the field AGE? Suggest an	appropriate field name and type. (03 marks)
	<ul> <li>d) Suggest appropriate data types for the following fields.</li> <li>(i) MEMBERSHIP-NUMBER</li> <li>(ii) SEX</li> <li>(iii)TELEPHONE</li> </ul>	(03 marks)
5.	a) Give any two ways of classifying computers.	(02 marks)
b)	Differentiate between the following terms:	
(i)	Analog and digital computers	(02 marks)
(ii)	Mainframe computers and micro- computers	(03 marks)
c)	List any three types of micro- computers.	(03 marks)
6.	a) State any four functions of operating systems.	(04 marks)

b)	List any two types of operating systems commonly used in computers.									
			(02	2 marks)						
c) (i)	What i	s a programming language?	(02 marks)							
(ii)	Differentiate between machine language and high level languages. (02 marks)									
7.	a) (i)	Define the term Mechanical computer?	(01	marks)						
	(ii)	Explain four features that make the modern computers	unique fro	om other machines in						
		the society. (04 ma	rks)							
	b)	The computer system unit is made of the central processing	unit as on	e of the components.						
		Name the major parts of the central processing unit.(03 marks)								
	c)	Explain the importance of the two parts mentioned in (b) above.	(02 marks)							
8.	a) (i)	Define the term coding.	(02 marks)							
(ii)	List do	own at least two commonly used coding schemes.	(02 marks)	)						
b)	Conve	rt the following:								
(i)	256ten	to binary base.	(03 marks)							
(ii)	10101	010 <sub>2</sub> to its decimal base	(03 marks)	)						
9.	a) (i)	Write DOS in full.	(01	mark)						
(ii)	State t	wo differences between DOS and windows.	(02 marks)	)						
b) (i)	Define	utility software.	(01 mark)							
(ii)	Give a	t least two examples of utility software.	(02 marks)	)						
c)	Explai	n the importance of any two utilities mentioned above.	(04 marks)	)						
10	. a)	Explain the following terms as used in data communication	. (02	2 marks)						
	(i)	packet switching								
	(ii)	bandwidth								
	b) List	down three components of basic model of data communicati	ion.(03 mark	xs)						
	c) i) Give the difference between communication channel and transmission media.(02 marks)									
	(ii)	Give three commonly used transmission media today.	(03 marks)							
11.	a)	Distinguish between a value and a label as used in spreadsheet.	(02 marks)							
	(iii)	List down any two examples of spreadsheet applications.	(02	2 marks)						

b) Study the table below and answer the questions that follow:

	A	В	С	D	Е	F				
1	SCORES OF SELECTED S.4 STUDENTS IN SLECTED SUBJECTS									
2	NAME	MATH	ENGLISH	COMPUTER	TOTAL	AVERAGE				
				STUDIES	SCORE	SCORE				
3	Apollo									
4	Bob									
5	Charles									
6	Harriet									
7	George									
8	David									
9	Teo									
10	Titus									
11	Zuth									

(i)	Give the cell reference for: "COMPUTER STUDIES:	(02 marks)
	"AVERAGE SCORE"	
(ii)	State the formula for getting the:	
	- Total score for all the candidates	(01 mark)
	- Average score for Bob	(01 mark)
	- Overall best candidate	(02 marks)
	- Candidate with the least score	(02 marks)
12. a)	Describe the computer term below:	
(i)	Line spacing	(02 marks)
(ii)	Changing Case	(02 marks)
(b)	Explain the following terms in presentation software:	
(i)	Transition looping	(02 marks)
(ii)	Slide Master	(02 marks)
(iii)	Slide Layout	(02 marks)
13. a)	State two functions of a Central Processing Unit (CPU).	(02 marks)

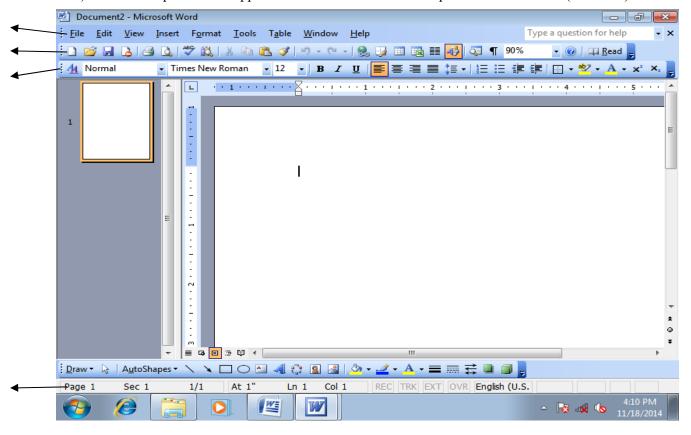
(b)

Define the following memory storage terms.

(i)		Bit													(01 n	nark)	
(ii)	i) Byte							(01 mark)									
(c)	State two categories of computer memory giving an exan							mple in	ı e	ach cas	e.						
(d)		Describe the major difference between the two						o ca	tegori	es of co	m	puter m	emory	y in(c).			
	14.	. a)	Desc	ribe a '	"rel	lative	add	ress'	·.							(02	marks)
(b)		Give 1	four ad	lvantag	ges (	of ele	ectro	nic s	preac	dshe	et ov	er ma	nual spi	rea	adsheets	s.	
																(04	marks)
		(c)	A tea	acher k	keej	ps a	class	s lis	t cor	ntain	ing	the fo	ollowing	gć	lata for	each	student: Name
			stude	ent inde	ex r	numbe	er, T	est	score	s.				-			
(i)		State	the dat	a types	s fo	r eacl	h of 1	these	e field	ds:					(03 n	narks)	
		Name													·		
				lex nun													
				scores													
	15.	(a)	Expla	ain the	fol	lowin	ıg tei	rms a	and a	n ex	ampl	e of e	each:				
		(i)	Off-t	he-she	elf- :	softw	are									(02	marks)
		(ii)	Custo	om sof	ftw	are										(02	marks)
		(iii)	Appl	lication	ı sc	oftwa	re									(02	marks)
		(b)	State	any for	ur a	dvanta	ages	of of	f-the	shelf	soft	ware.				(04	marks)
	16	5.a)	(i)	Disti	ingı	uish Ir	ntern	et an	d Wo	rld V	Vide	Web.			(02 m	arks)	
			(ii)	Men	ntior	n any i	four	servi	ces of	ffere	d by	the int	ernet.			(04	marks)
		(b)	Name	e four b	basi	c iten	ms th	nat a	re rec	quire	ed to	gain	access t	to	the inte	ernet.((	04 marks)
	17	'.a)	Expla	ain brie	efly	the f	follov	wing	term	in	relati	on to	spreadsl	hee	ets.	(04	marks)
			(i)	Cell									(iii)		Label		
			(ii)	Value	;								(iv)		Function	on	
			(b)	(i)							_		s in the			. (03 m	narks)
			(ii)	Give t	two	exam	ıples	of gr	aphs t	that o	can b	e mad	e in spre	ad	sheet.	(02 m	narks)
		18	. a)	Give o			-		follo	wing	stor	age de	vice.				(02 marks)
			(i)	Optica		_											
			(ii)	Magne	etic	stora	ge de	evice	S								
			(b)	With	the	help	of a	an ex	xampl	le ex	kplair	the n	neaning	o	f the fo	llowin	g: (06
			(i)	Storag	ge h	ardwa	are										
			(ii)	Proces	ssin	g hard	dwar	e									
			(iii)	Comm	nun	icatio	n har	dwar	re								
			c)	Give t	thre	e diffe	erenc	es be	etweei	n me	chan	ical m	ouse and	l o	ptical m	ouse ii	n their
			operati	on.													(03 marks)

19.	a) Defi	ne the f	following	terms.					(02 marks)		
	(i)	Stand	alone con	ıputer							
	(ii)	Netwo	ork compu	ter							
(b)	Differe	entiate b	etween a	linear topol	ogy and a st	ar topol	ogy.		(02 marks)		
c)	Give three advantages of star topology over ring topology. (03 marks)										
d)	List down three advantages of using networked computers. (03 marks)										
20.a) (i	Give t	he diffe	erence be	tween unau	thorized ac	cess an	d un aut	h orized	use.(01 mark)		
(i	i)	List d	own two	examples	of un autho	rized us	se of co	mputer	system in an		
office.(	02 mark	s)									
(1	)	(i)	Suggest	four guidel	ines of crea	ting pas	swords.	(04 ma	arks)		
		(ii)	Give th	ree example	s of biometr	ric devi	ces.		(03 marks)		
21.a)	Disting	guish be	tween "s	system softw	ware" and	"applica	ation sof	tware" i	in computer		
	system						(04 ma	arks)			
(b)	State fo	our uses	of preser	itation softw	vare in busir	ness.			(04 marks)		
(c)	State th	ne mean	ing of the	following p	programmin	g tools.		(02 ma	arks)		
(i)	Debug	gers									
(ii)	Assem	blers									
22.	Write t	he follo	wing abb	reviations in	ı full.				(04 marks)		
(i)	ASCII					(iii)	CC				
(ii)	EBCIE	OIC				(iv)	BCC				
b)	What d	lo you u	ınderstand	by the follo	owing terms	?					
(i)	What d	lo you u	ınderstand	by the follo	owing terms	?		(02 ma	arks)		
-	Compu	iter file									
-	Path										
c)	Specify	y the file	e types as:	sociated wit	th the follow	ing file	extensio	ons. (04 i	marks)		
(i)	Exe										
(ii)	Txt										
(iv)	Doc										
22.	a)	Explai	in the mea	ning of the	following to	erms.		(04 ma	arks)		
(i)	Footer					(iii)	Radio	button			
(ii)	Cell ad	dress				(iv)	Primar	y key			
b)	Write (	CLI and	GUI in fi	ıll					(01 mark)		
c)	Mentio	n three	function	s of operation	ng system.			(03 ma	arks)		

- d) Differentiate between multiprocessing and multi-user operating system. (02
- 23. a) What do you understand by computer neighborhood? (01 mark)
- b) Explain the meaning of the following internet services. (04 marks)
- (i) E-mail (iii) www
- (ii) Chartroom (iv) telnet
- c) Describe briefly each of the following topologies and give one advantage in each.(04marks)
- i) Ring topology (ii) Bus topology
- d) Differentiate between a search engine and URL
- 24.a) Below is part of an application window answer the questions that follow.(04 marks)



Name the parts A- D.

b) Below is list showing some of the specifications of only 4 computers, study the list and answer questions that follow.

	<u>Model</u>	<u>Hard disk</u>		<u>KAM</u>
A.	Pentium IV ,2.5 GHz	300 GB	2 GB	
B.	80586	900,567,753 bytes		64

C. Pe	ntium Γ	V, 300 MHz	100 MB	512MB					
D. Pe	ntium I	I	8,564,523,008 bytes	256					
(i)	Which computer has the highest processing speed? Give two reasons for your								
	answe	r.							
(ii)	Which	computer would you recomm	end for large storage	of permanent data?					
	Give r	eason for your answer?							
(iii)	Which	computer can easily be upgra	ded for better perforr	nance? Advice on how					
	it can	be done		(02 marks)					
25.	(a)	Write the following terms in ful	1.	(05 marks)					
	(i)	TCP/IP	iv)	НТТР					
	(ii)	IRC	(v)	STMTP					
	(iii)	URL							
c)	Explain	n any three factors required when	choosing an ISP.						
26. a)	Define	the term "computer virus"		(03 marks)					
(b)	State a	ny three characteristics of compu	ter viruses.	(03 marks)					
c) (i)	Mentio	on any two precautions of safe	guarding against com	puter viruses.					
				(02 marks)					
(iii)	State a	any two dangers of computers	viruses to computer s	software (02 marks)					
e) Sta	ate any	two lessons computer viruses	teach computer use	ers. (02					
ma	arks)								
27. a)	Define	the term "computer hardware"		(02 marks)					
b)	Mentio	on any three basic parts of a perso	onal computer.	(03 marks)					
c)	State a	ny two examples of personal con	nputers.	(02 marks)					
d)	State a	any three advantages of compu	ter hardware to comp	uter users.					
				(03 marks).					
28.(a)	Give a	any three safety rules that shou	ald be followed in a control	computer laboratory.					
b) Def	ine the fo	ollowing terms as used in comput	ter.						
(i)	Directo	ory		(01 mark)					
(ii)	Moden	1		(01 mark)					
(c)	(i) Name any five peripheral devices of a computer (05 marks)								
(ii)	Give th	ne function of each device name i	n (c) (i) above.	(05 marks)					
29.	a)	What is an e-mail?		(02 marks)					
b)	List tw	o popular e-mail software comm	only used.	(02 marks)					

State four advantages and two disadvantages of using e-mail. (06 marks) c) Define the term "computer security risk"? 30. a) (02 marks) b) Give four common computer security risks. (04 marks) For each of the computer security risk given above suggest one way to prevent it. c) 31. (a) What is a microprocessor? (02 marks) (b) Describe the difference between a digital computer and an analog computer. Give an example of each. (04 marks) (c) What a electronic technology characterized each of the four generations of computers? (04 marks). First generation (i) (ii) Second generation (iii) Third generation

(iv)

Fourth generation.

## **SECTION. C: QUESTIONS**

1.	a)	Define the term computer virus. (02 i	marks)
	b)	Mention four ways through which you can tell that a compute	r has a virus.
		(04)	
	c)	Explain four ways through which virus are spread.	(08 marks)
	d)	How would you protect your computer against viruses? (08 t	marks)
2.	a)	Distinguish between input and output hardware. (04 i	marks)
	b)	Explain the use of any five input hardware and any four output	it hardware used in
		a computer system.	(16 marks)
3.	"Prot	ocols are very important factors without which communication n	nay not be possible.
	Discu	ass the different protocols involved in communication.	
4.	"A c	omputer is a device which has hardware and software used t	o input, process,
	store	and output data according to the instructions of the user".	
	As a	student's of computer studies, explain any two hardware comp	ponents involved at
	e ach	of the four stages above.	
		(20 marks)	
5.	a)	Outline the advantages of networking over stand alone co	omputers. (08
	mark	s)	
	b)	Using illustrative diagrams, describe the various forms of LA	N topologies
	(12)		
6.	a)	Describe any four ways in which computer crimes are commi-	tted . (12
	mark	s)	
	b)	Explain the ways of safeguarding against computer crimes.	(08
	mark	s)	
7.	Desci	ribe the nature and features of the f our computer generations.	(20
	mark	s)	
8.	Some	e people believe that using computers will cause unemployn	nent whilst others
	believ	we that the economic survival of a society depends on makin	ig even greater
	use o	f the computers. Describe how computers can;	
	a) C	Cause unemployment	(10
	n	narks)	
	b) E	Be the basis for economic survival.	(10
		narks)	`
9.	a)	Outline any four forms of secondary storage.	(04 marks)
<i>)</i> .	a)	Cumile any roun forms of secondary storage.	(OT IIIaiks)

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b) Describe any four characteristics of each of the forms of secondary storage mentioned above. (16 marks)

10. Explain the merits and demerits of using for learning and communication.(20 marks)