INTRODUCTION TO COMPUTERS

1.	(a).	Define the term computer .
	•••••	
	a.	
	(b).	Outline four characteristics of a good computer.
	•••••	
	•••••	
	••••	
	(c).	State five advantages of using a computer today for data processing.
	•••••	
	•••••	
	•••••	
	•••••	
	(d).	State three reasons to suggest why laptop computers are common today.
	•••••	
2.	(a).	Distinguish between computer generations and computer evolution .
	•••••	
Rev	vision F	

(b).	(i). State four mechanic	al eral.	ng devices developed during the
••••••			
	(ii). State thre mechanic		levices developed during the
(c).	Identify the m	ajor scientific discoveries i	n each of the following generations:
	Generation	Discovery / milestone	
	First		
	Second		
	Third		
	Fourth		
	Fifth		
(a).	State three bas	ses for classifying compute	ers.
•••••	••••••••••		
			Computer Studies

•••••	••••••	
(v). Artificial in	telligence.	
(iv). Garbage - i	in , Garbage - out.	
(iii). Automation	!•	
(ii). Diligent.		
(**) D.11		
(1). Versume.		
(i). Versatile.	o wing terms as asee in relation	n to compater use.
(c) Evaluin the follo	owing terms as used in relatio	in to computer use:

	(d).	Give four disadvantages of using computers for data processing.
	•••••	
4.	(a).	State any three ways computes have caused un-employment in Uganda.
	•••••	
	•••••	
	(b).	List four characteristics of first generation computer.
	•••••	
	•••••	
	•••••	
	(c).	State any four examples of computers classified under / as personal computers
	•••••	
	•••••	
	(d).	Give three advantages that were associated with the development of the
		integrated circuit.
	•••••	
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).	(a).	State four characteristics of the following forms of computers:				
		(i). Supercomputers.				
		(ii). Mini - computers.				
	•••••					
		(iii).Mainframe - computers.				
		(iv). Micro - computers.				
	•••••					
	•••••					

	(b).	(b). List three features of third generation computers.						
6.	Outli	Outline five practical uses of computers in each of the following sector areas:						
	(i).	Security.						
	•••••							
	•••••							
	•••••							
	(ii).	Governanc	e.					
	•••••	••••••					•••••	
	•••••							
	(iii).	Education.						
	•••••							
Re	vision K	it - S4	••••••	6	••••••	Computer S	Studies	

(iv). Transport.
(v). Entertainment.
(vi). Military.
(vii). Business.

<i>/</i> .	(a).	(1).	Define the term computer system .	
		(ii).	Outline any five elements that make up a computer syst	tem.
			e four factors to consider before buying a computer for u	se.
			inguish between the following pairs of terms:	
	•••••	(i).	Special - purpose and general - purpose computers.	
		(ii).	Analogue and digital computers.	
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		(111). Data and information .
	•••••	
	•••••	
	•••••	
		(iv). Stand - alone and networked computers.
	•••••	
	•••••	
	•••••	
	(d).	Give five characteristics of fourth generation computers.
	•••••	
	•••••	
	•••••	
	•••••	
0		
8.	(a).	State any three divisions of a computer's keyboard.
	•••••	
	•••••	
	(h)	Describe each of the following keyboard keys:
	(0).	(i). Enter key.
	•••••	
	•••••	

	•••••	(<i>11)</i> .	Escape key.
		(iii).	Capslock key.
		(iv).	Tab key.
		(v).	Shift key.
		(vi).	Num lock.
			Functional - keys.
9.	(a).	Nam	e three buttons that work as ON/OFF switches on a computer's keyboard.

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(c). Using a computer's keyboard, show how the following are carried out: (i). Confirm a command. (ii). Select the entire document. (iii). Print a page. (iv). Restart a computer. (v). Cancel an operation or command.	vicion k	7 i t - S A	11	Computer Studies
(ii). Confirm a command. (iii). Select the entire document. (iii). Print a page. (iv). Restart a computer. (v). Cancel an operation or command.	0.(a).		e one computing device that was developed by the follo	wing personalities
(ii). Confirm a command. (ii). Select the entire document. (iii). Print a page. (iv). Restart a computer.		(v).		
(i). Confirm a command. (ii). Select the entire document.		(iv).		
(i). Confirm a command. (ii). Select the entire document.				
(i). Confirm a command.		(iii).	Print a page.	
		(ii).	Select the entire document.	
(c). Using a computer's keyboard, show how the following are carried out:-		(i).	Confirm a command.	
	(<i>c</i>).	Usin	g a computer's keyboard, show how the following are c	arried out:-

 Revision 1	Xit - S4	12	Computer Studies
 11.(a).	Identify four har desktop compute	dware components that are su r.	applied as part of a functional
•••••			
(d).	Outline five char generation.	acteristics of computers devel	loped in the fifth computer
•••••			
(c).	In your own analy computers were i		pport the idea that first generation
•••••			
(b).		cteristics of the ENIAC comp	outer.
	(iii). John Napie	er	
	(11). Herman Ho	ollerith	

 Revision I			13	•••••		outer Studies
•••••			•••••••	•••••	•••••	••••••
•••••	•••••	••••••	•••••••	••••••	••••••	••••••
••••••						
••••		••••	•••••	••••		
. ()	computer.		y			J -
12.(a).	Write a list of	of seven measur	es you would	d take to main	tain and care	e for your
			•••••			
•••••						
•••••					•••••	•••••
(C).	today.	cusons for taking	computers s	iudies as a suc	jeet in secon	dary selloois
(c).	` ,	easons for taking				
		<i>:</i>				
	(iii). <i>PC</i> :					
	(ii). COBO	DL:		•••••		
	(i). <i>CPU</i> :					•••••
(b).	Write the fo	llowing abbrevi	ation in full:			
•••••	•••••		•••••	•••••		••••••
•••••						
•••••	••••••	••••••••••	••••••••	•••••	••••••	••••••

(b).	Use only one of the following words to fill in the spaces below in a way of describing major functions of a computer system.
	storage, input, processing, output.
(i).	With, a computer keeps data for future use.
(ii). a	allows data to be generated using devices like a keyboard.
(iii).	enables the computer to display data / information.
(iv).	helps the computer to convert data into information.
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COMPUTER LABORATORY AND MAINTENANCE

l.	(a).	Define a computer laboratory.	
	(b).	State six factors to consider before setting up a computer lab	oratory.
	•••••		
	•••••		
	(c).	Outline four physical measures that can be put in place to in computers.	crease safety of
	•••••		
	(d).	Distinguish between cold - booting and warm - booting .	
2.		Outline four reasons for restarting a computer.	
Rev	vision K		Computer Studies

•••••		
•••••	(i). Woolen carpet.	
(d).	State the purpose of the following in a computer laboratory	:
•••••		
	(iv). Kernel.	
•••••		
•••••		
•••••	(iii). BIOS.	
•••••		
	(ii). RAM.	
•••••		
	(i). POST.	
(c).	Describe the role of the following in the booting process of	a computer:
•••••		

	(II).	Dust blower.
	(iii).	Screw driver.
	(iv).	Air conditioner.
	(v).	CCTV Camera.
	(vi).	UPS.
3.	(a). State	e five precautions you would bear in mind as you maintain your computer.

Rev	vision K	Cit - S4	18		Computer Studies
			-		
4.	(a).	State five causes of	of booting failure in	a computer.	••••••
	•••••				
	•••••				
	•••••				
	•••••				
	(d).	Prepare a checklis of your school.	t of five rules and re	gulations for use in a com	puter laboratory
	•••••				
	•••••				
	(C).	a computer labora	tory.	iipioy to increase safety o	
	(c)			nploy to increase safety o	
	•••••				
	•••••				
	•••••				
	•••••				
	(0).		•	restart a computer?	

Rev	vision F	Sit - S4	19	<u> </u>		Computer Studies
	•••••					
	•••••					
	•••••					
5.	(a).	Suggest any fou	r causes of system	n freeze in a co	omputer labora	atory.
	•••••					
	•••••			••••••		
	•••••					
	•••••					
	(d).	State five reason	s for servicing yo	our computer at	home.	
			•••••••••••••••••••••••••••••••••••••••			
	•••••					
	(c).	Distinguish betw	veen computer re	epair and com j	puter servicir	ng.
	•••••					
	•••••					
	(b).	Describe four sto	eps you would em	ploy to correct	a computer w	ith a boot failure.

•••••			
•••••			
•••••			
••••••		••••••	
(d).	Prepare a list of six s	standard rules you would	propose for use in a laborator
•••••			
•••••			
•••••			
(c).	Write down a list of computer.	five activities you would	take to maintain full life of a
•••••			
••••••			
•••••			
	laboratory.		

COMPUTER HARDWARE DEVICES

Rev	vision F							
	(d).	Expl (i).	ain the follo	-				rdware devices.
	•••••	• • • • • • • • • • • • • • • • • • • •						
		(ii).	List five ex	xamples of p	eripheral de	evices.		
	•••••							
	(c).	(i).	_	eripheral d				
				•••••	•••••		••••••	
		• • • • • • • • • • • • • • • • • • • •			•••••			
	(b).	State	four classes	s of compute	r hardware	devices.		
	•••••	• • • • • • • • • • • • • • • • • • • •	•••••					
	•••••	•••••	•••••					
1.	(a).	Defi	ne the term c	omputer ha	rdware.			

Re	vision I	 Kit - S4_	······	22		ter Studies
		•••••			 	
	•••••	(ii).	Mouse.		 	
		• • • • • • • • • • • • • • • • • • • •				
		(i).	Keyboard.			
	(b).		three advantag outer laboratory	ges of using the f		
		• • • • • • • • • • • • • • • • • • • •				
		•••••			 	
2.	(a).	Expla	ain four forms	of input hardwar	n be used for te	
	•••••	•••••			 	
			Processing.		 	
	•••••	(iii).	Storage.			
	•••••	•••••			 	•••••
		(11).	Output.			

	(c).	Give	e four factors to consider before buying an input h	ardware device.
	•••••	• • • • • • • • • • • • • • • • • • • •		
	•••••	•••••		
	•••••	• • • • • • • • • • • • • • • • • • • •		
	•••••	• • • • • • • • • • • • • • • • • • • •		
	(d).	List	five mouse techniques normally associated with m	nouse use.
	•••••	• • • • • • • • • • • • • • • • • • • •		
	•••••	• • • • • • • • • • • • • • • • • • • •		
	•••••			
	•••••			
	•••••			
2	(a)	C4.54	three forms committee event may take	
3.	(a).		e three forms computer ouput may take.	
	•••••	••••••		••••••
	•••••	••••••		••••••
	<i>(1)</i>			
	(b).		gest an output hardware device that shall be used f	or the following tasks:
		(1).	Display a soft-copy.	
	•••••	•••••		
	•••••			
		(<i>ü</i>).	Provide a copy of work on a piece of paper.	
	•••••	••••••		
Rev	vision	 Kit - S4	23	Computer Studies

•••					24	•••••			ter Studies
(a		_	ain the followin <i>Resolution</i> .	g terms in					
•••	•••••					•••••			•••••
•••	•••••	•••••			•••••	•••••			
•••	•••••				•••••	•••••			••••
••••									
••••								••••••	
(d))	State	six factors to c	onsider bef	ore buyi	ng a mor	nitor for g	raphics wo	ork.
•••	•••••	•••••			•••••	•••••		•••••	••••••
•••	•••••				•••••	•••••		•••••	•••••
•••	•••••	• • • • • • •							
••••									
(c)). (Give	four reasons to	suggest w	hy LCD	monitors	s are comr	non today	
•••	•••••								
	(ix	·).	To help a user	r play speed	ches and	music fi	les.		
•••	•••••	•••••							•••••
	(iii	<i>()</i> .	Indicate infor	manon by l	use of a s	гет ој 10м	energy b	шю.	

•••••	(11).	Refresh rate.
	(i).	Suggest the difference between dots per inch and screen resolution .
•••••	••••••	
•••••	(ii).	Identify three causes of paper jam in a printer.
	(iii).	Suggest six measures you would introduce to maintain your printer.
•••••		
••••		
(c).	Outli	ne five factors to consider before buying a printer for domestic use.
•••••		

5.	(a).	(i).	Write the abbreviation CPU in full.
		(ii).	State three parts that make up the CPU.
	(b).		the importance of the following during data processing: Data bus.
		(ii).	Address bus.
		(iii).	Accumulators.
	(c).	Expl	ain the four machine cycles carried out by the CPU during data processing.
	•••••	•••••	

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		••••••			
		(i).	Solid - state.		
	(c).	Writ	te down three st	torage devices that use th	ne following technologies:
		•••••			
	•••••	••••••			
	(b).	State	e four character	ristics of Random Access	s Memory.
	•••••	•••••			
		•••••			
		(ii).			memory generally referred to.
6.	(a).			etween primary and sec	
	•••••	•••••			
	(u).	Ivaii	ie the two comp	onents in the CPU that j	provide temporary data storage.

	(11).	Magnetic.
		Optical storage.
7.		ggest five reasons to explain why majority of the computer programs are nerally supplied on a computer disc.
	•••••	
	•••••	
		iga Sandra has data that is 4.5 GB in size. Write down three storage media would use to store her data.
	•••••	
	•••••	
	(c). Ou	tline five factors to consider before buying a storage media for use.
	•••••	
	•••••	
	•••••	
	••••••	

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8.	(a).		five measures you would put in place to have long term use of a storage um of your choice.
	•••••	•••••	
	•••••	•••••	
	•••••		
	••••		
	(b).	Give	the meaning of the following terms as used in data storage:
		(i).	Access - time.
	•••••	•••••	
	•••••	(ii).	Storage capacity.
	•••••		
		(iii).	Reading.
	•••••		
	•••••	•••••	
		(iv).	Writing.
	•••••	•••••	
	•••••	(v).	Storage device.
	•••••	•••••	
	•••••	•••••	

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•••••			
•••••			
(ii).			n a user may prefer a flash disk
•••••			
•••••			
(b). (i).	Describe four ca	uses of hard disk cru	sh in a computer laboratory.
•••••			
(iii).	Flash disk.	••••••	••••••
•••••			
(ii).	Compact disc.		
(i).	Hard disk.		
(a). Des	cribe the following	storage facilities	
	(ii). (iii). (iii). (b). (i).	(ii). Compact disc. (iii). Flash disk. (b). (i). Describe four ca	(a). Describe the following storage facilities (i). Hard disk. (ii). Compact disc. (iii). Flash disk. (b). (i). Describe four causes of hard disk cru (ii). State three circumstances underwhich over a compact disc.

	(iii).		State four advantages of partioning a hard disk.		
		••••••			
10	 . (a).		Write BIT in full: Give two advantages of using BIT notation in a computer.		
		••••••	Write down the digits that make up hexa - decimal.		
		(iv).	Convert 1101110 into deca notation.		
		(v).	Write 121 into binary notation.		

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			•
	8 bits	byte(s)	
	bytes	1 Kilo Byte (KB)	
	Kilo Bytes (KBs)	1 Giga Byte (GB)	
11.(a).	Give four specialiased character	teristics of optical stor	rage media.
•••••			
•••••			••••••
(b).	Write the following in full and	I state the number of c	ligits each represents.
	(i). ASCII		
•••••			
	(ii). EBDIC		
	(iii). BDIC		
•••••			

(b). Fill in the table below with the most appropriate measure of data.

WORD PROCESSING

1.	(a).	Define a word processor.
	(b).	Give four advantages of using an electronic word processing program over a
		manual mode.
	(c).	(i). State six editing tools in a word processor.
		(ii). Give four forms/examples of documents prepared using a word processor.
	•••••	

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	(v).	Drop Cap.		
	(iv).	Ruler.		
	(iii).	Footer.		
•••••	(ii).	Page layout.		
(b).		ribe the following <i>Wordwrap</i> .	tools found in a word pro	
•••••	••••••		und in a word processor.	

3.	(a).		What is a font ?
	•••••		State three properties of a font.
	(b).		inguish between editing and formatting as used in word processing.
	(c).	State	e six formatting tols used in a word processor.
4.	(a).		at is the function of the <i>mail-merge</i> facility in a word processor.

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		(iv). pAGE lAYOUT.
		(iii). COMPUTER STUDIES.
		(ii). <i>Computer studies</i> .
6.	(a).	Describe how a user can typeset the following tasks in a word processor: (i). H_2O .
	(d).	What is the importance of grouping objects drawn?
	(c).	State the difference between slip - cell and merge - cell .
	(b).	Describe the procedure for printing page six (6) from a sixty (60) page document.
	•••••	
5.	(a).	State four activities that can be done on a table in a word processor.

	(b).	What is the difference between copy an paste as applied onto given text.	
	•••••		••••••
	(c).	Describe how you would place a watermark in only one page in a docum	
	(<i>d</i>).	Explain the following case styles in word processing:	
		(i). Sentence case.	
(ii).	<i>U</i>	pper case.	
(iii).	Tit	le case.	
		(iv). Toggle case.	
7			
1.	(a).	Distinguish between a footer and a footnote .	
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	(b).	State	e four functions of a word processing program.
	•••••	•••••	
	•••••	•••••	
	•••••	•••••	
	(c).	List	six ways you can make a document look attractive and professional.
	•••••	•••••	
	•••••	•••••	
	•••••	•••••	
	•••••		
	•••••	•	
	(d).	State	e the tools you would use to carry out the following tasks:
((i).	A tea	ucher of physics who would wish to draw a time - speed graph.
	•••••	(ii).	A teacher of mathematics who would wish to insert an equation.
	•••••	(iii).	A teacher of english language who would wish to add numbers against each line in a passage.
	•••••	•••••	
8.	(a).	(i).	Define the term page orientation .
	•••••	•••••	
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		(ii).	Select a paragra	aph.	
9.	(a).		ribe how the follo	owing are done using a	word processor:
		(iii). 	Select All.		
		(ii).	Auto complete.		
		(i).	Word count.		
	(<i>c</i>).	Expl		following tools in a wo	ord processor:
	(b).	State	the difference be	tween a superscript an	nd a subscript .
		(ii).		fferent forms of page of	rientation.

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		(iii). Margins.	
		(ü). Word spacing.	
		(1). Line spacing.	
10	 .(a).	Define the following terms as used in word processing: (i). Line spacing.	
		(ii). Give the document another name.	
(i).	<i>G</i> :	ive a document a name.	
	(c).	Kato was typesetting a document, describe the steps he would to:	
	•••••		
	(b).	State two facilities in a word processor one would use to corre make it free from mistakes.	
		(111). Select the entire document.	

	(b).	State any t	hree	forms	of to	ext wrap wh	ile dealing w	ith images.
	•••••	•••••	•••••	•••••	•••••			
			•••••		•••••			
			•••••	••••••		••••••		
	(c).	Describe h	ow y	ou wo	uld i	nsert page n	umbers in a o	locument.
	•••••		•••••	••••••	•••••	•••••		
	•••••	•••••	•••••		•••••	•••••		
			•••••		•••••			
	•••••	•	•	•	•••••			
	•••••	••••••	•••••	••••••	•••••	•••••	••••••	
11.	(a).	Study the t	table 1	bwlow	and	l answer que	estions follow	ring:
		S.1 CI	LEAN	NING	PR(OGRAM		
		Stream	L	No:		In-charge		
		Central	U	20	E	Simon		
		Precious North	,	60 40	$\mathbf{C} \mid \mathbf{F}$	David Joseph		
		East	С	82	S	Peter		
		Last	I	02		1 CtC1		
	<i>(</i> *)	**				.4		
	(i).	How many	colu	mns d	o yo	u see on the	table above?	
	•••••	•••••	•••••	•••••	•••••	•••••		
	(ii).	State any s	ix for	rmattii	ng fe	atures used	in the table a	bove.
	••••••	••••••	•••••	••••••	•••••	••••••	••••••••	••••••
	•••••		•••••	••••••	•••••			
			•••••		•••••			
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	11). How would you duplicate the table above to have four on one	
(iv	v). How would you place the table above in the middle of the pag	e?
	v). State one referencing feature you would apply on this table.	
(vi	7i). The teacher on duty would wish to obtain the number of student from the streams indicated. Write down a formular you would total.	
 12.(a)	a). Your teacher has asked you to create a roll - call sheet for one fifty (150) students. The names are recorded on the basis of fir serve i.e. in no order. The roll - call sheet should cater for sex, spaces on the right hand side against each name.	rst - come, first -
(i).). Outline seven facilities you would work with to have a neatly p sheet.	repared roll - call
•••••		
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	(i). Identify six tools you would use to have the sketch drawn in so	
. (a).	You have been contacted by an events company to draw a sketch dire the venue of a birth day party for its client.	
	(iv). Use of hyphanation.	
	(iii). Line spacing.	
•••••	(ii). Line numbering.	•••••
•••••	(1). Columns.	
(b).	What is the effect of applying the following paragraph tools: (i). <i>Columns</i> .	
•••••		
	this work.	

	(ii).	As you are drawing your sketch, what is the purpose design pattern?	of a ruler in your
 (b)). Writ	e down a tool you would need to carry out the following have text in the bottom margin appearing repeatedly	ng tasks:
	(ii).	have the first letter in a paragraph to strecth more li	nes.
	(iii).	have text move away from the left and right margins	settings.
•••	(iv).	increase vertical distance between typed lines.	
	ı). (i).	Define the term page - break .	
	(ii).	Write down three forms of page - break used in wor	d processing.
 (b). State	e four circumstances under which page - break is useful	in a word processor.
 Revisio	on Kit - S4		

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	•••••	(iv).	Edit individua	l document.				
		(iii).	Merge to print	er.				
		(ii).	Data - source.					
15.	. (a).		lation to mail - r <i>Main - docum</i>		y in a word	processor, ex	xplain the fol	lowing:
	(d).		three ways you		_	-		
	•••••	•••••						•••••
	(c).	Give	live examples of	of file extens	ions related	i to word pro	cessing.	

••••••	(v).	Send to e-mail.		
(b).	Desc	ribe the following		
		Clip - art galler		
		Word - art.		
(i	ii).	Fill - colour.		
(c).	State		of a good table in a word	processor.
(d).	(i).	Define the term		
ision Ki	it - S4		47	Computer Studies

(ii)	. State three forms horizontal alignment in relation to text handling.

COMPUTER SOFTWARE

1.			Define the term computer software .
		(ii).	State the two major categories of computer software.
	(b).	Disti	inguish between system and applications software.
	(c).	State	e the three major divisions of computer system software.
2.	(a).	(i).	What are operating systems ?
		(ii).	Give five functions of operating system software.
		•••••	
	•••••	•••••	

Computer Studies

	(b).		ine six factors you would consider before buying ram for your computer.	g an operating system
	(c).	Expl	ain any four types of operating systems by class	ification.
	•••••			
3.	(a).	(i).	What are user interfaces ?	
			Give three forms of user interfaces available f	
	•••••			
	(b).	(i).	Give five facilities that are available in a graph helps a user to perform tasks.	nical user interface that
Re	vision l	Kit - S4_		Computer Studies

		(ii).	State four advantanges and two disadvantages of a ginterface.	raphical user
	•••••	••••••		
	•••••			
	(c).	(i).	What is a line - user interface ?	
		(ii).	State three advantanges and two disadvantages of a	line - user interface.
4.	(a).	Desc	ribe the following facilities as used in relation to user	
		(i).	Dialogue box.	
	•••••	••••••		
		(ii).	Menu.	
		(iii).	Drop lists.	
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	(iv). Radio buttons.					
		(v).	Check box.			
		(vi).	Icon.			
5.	(a).	(i).	What are utility programs ?			
		(ii).	Describe any ten utility programs commonly used.			
		•••••				

•••••	 Kit - S4_	••••••		53		Computer St	
(c).						er laboratory.	
•••••							
•••••							
•••••	•••••						
	(ii).	List five exa	amples of ant	i - virus pro	ograms comr	monly used.	
•••••	•••••						· • • • • •
•••••	•••••						· • • • •
••••	•••••						
• • • • • • •							
•••••	••••••						
(c)	(i).	Give six use	es of an anti-	virus progra	am.		
•••••	•••••						• • • • •
•••••	•••••						
•••••	•••••						· • • • •
	••••						

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	((ii).	State three examples of program translators.	
7.	(a).	(i).	What is a language translator ?	
		(ii). 	List four examples of high level programming	languages.
	(c).	(i).	State three advantages and two disadvantages programming language.	of using a high level
	(b).	State	any two categories of programming languages.	
6.	(a).	Wha	t are computer programming languages ?	

(b). Define the following terms as used in programming:		
	(i).	Bug.
••••		Source - code.
	(iii).	Compiler.
•••••	•••••	
	(iv).	Machine code.
((v).	Interpreter.
(c).	Expl	ain eight characteristics of a good programming language.
•••••		
•••••	• • • • • • • • • • • • • • • • • • • •	
•••••	• • • • • • • • • • • • • • • • • • • •	
•••••	•••••	

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	(c).	Exp	ain the following terms a Shareware.	as used in relat	ion to computer programs:
		(ii). 	program.	and two disad	vantages of using a freeware
	(b).	(i).	What is a freeware pr		
		•••••			
		(ii).	State five factors you w	vill consider be	fore buying an application program
8.	(a).	(i).	Define an application j	program?	
	•••••	•••••			

	(11).	Open - source program.	
(a).		What is a software suite ?	
	(ii).	Give four advantages and two disadvantages of u	using a software suite.
Disa	advant		
		List three examples of software suite programs.	
(b).	(i).	Give the difference between custom - made and o	
	 Kit - S4_	57	

(ii).	State three advant over off - the - she	•	vantages of using cust	com made
•••••				
(c). Expla	-		ns available for use.	
10.(a). Description at home		obtaining computer	software programs fo	r use while
••••••				••••••
	hree causes of soft			
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(c). State four system requirements needed when installing a computer program.

SPREADSHEETS PROGRAM

Res	ision K		60	Computer Studies
	•••••			
	•••••	•••••		
	•••••			
		to perform his / her t	asks.	
	(d).			would use a spreadsheet program
	••••••			
	•••••			
	(c).	State six examples o	f spreadsheet programs c	commonly used.
	•••••			
	•••••			
	•••••			
	•••••			
	(b).	Give five advantages	s of using an electronic s	preadsheet program.
l •	(a).	Define a spreadshee	et.	

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		ii). Workbook.
	(d).	Explain the following terms as used in relation to spreadsheet programs. (i). Cell.
		(ii). Column.
	(c).	Explain houw you can add the following in a spreadsheet program: (i). Row.
	(b).	Distinguish between a column and row as used in spreadsheets.
۷.		State five forms of data types that can be stored in a spreadsheet program.

		(iii). 	Worksheet.	
3.	(a).	Disti	nguish between a workbook and a worksheet .	
			ain the use of the following facilities in a spreadsh	
			Freeze pane.	ect program.
		(ii).	Print grid - line.	
			Print - selection.	
	(c).	(i).	What is a cell reference ?	
		(ii).	Oultine the various forms of cell references used i	n a spreadsheet program.
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Rev	vision Kit - S4	<u> </u>	63	Computer Studies
	(iii).	Quantity in st	ore.	
	(ii).	Fees paid.		
	(i).	Student's nam	e.	
	(b). Idea	ntify the nature o	of data types the following	g may below:
	(iii).	Text.		
	(ii).	Currency.		
	(i).	Number.		
4.	(a). Exp	olain the followir	ng data types as used in sp	readsheet programs.
	•••••			
	•••••			

	(c).	(i).		nction as used in spreadshee	t programs.
		(ii).	State three p	arts that make up a spreadsh	eet formular.
	•••••	•••••			
	(d).	Give	_	s of statistical functions in a	spreadsheet progam.
5.	(a).	_	ain the followi Mixed.	ng forms of cell referencing:	
		(ii).	Relative.		
		(iii).	Absolute.		
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	(i).	e the forms of cell: = $SUM(B2:B10)$			mowing form	iuiue.
•••••	(ii).	=COUNTIF(\$C	\$2:\$C\$10,B	1)		•••••
•••••	(iii).	=RANK(\$D\$2:\$	5D\$10, \$D\$2	2:\$D\$10)		
(c).	Dist	inguish between a	name box a	and a formula	ı bar.	
	• • • • • • • •	••••••	•••••••••		••••••	••••••
		wing spreadsheet we questions that fol	_	ed by a retaile	er of ABC Lir	mited. Study i
		e questions that fol	llow:	С	D	mited. Study i
	ver th	A Item_Name	B Quantity	C Unit_Price		mited. Study i
	ver th $\frac{1}{2}$	A Item_Name Bagiya	B Quantity 28	C Unit_Price 250	D	mited. Study i
	1 2 3	A Item_Name Bagiya Yorghut	B Quantity 28 100	C Unit_Price 250 700	D	mited. Study i
	1 2 3 4	A Item_Name Bagiya Yorghut Soda	B Quantity 28 100 52	C Unit_Price 250 700 800	D	mited. Study i
	1 2 3 4 5	A Item_Name Bagiya Yorghut Soda Rolex	B Quantity 28 100 52 200	C Unit_Price 250 700 800 1,500	D	mited. Study i
	1 2 3 4	A Item_Name Bagiya Yorghut Soda Rolex Toilet Paper	B Quantity 28 100 52 200 600	C Unit_Price 250 700 800 1,500 250	D	mited. Study i
	1 2 3 4 5 6	A Item_Name Bagiya Yorghut Soda Rolex	B Quantity 28 100 52 200	C Unit_Price 250 700 800 1,500 250 18,000	D	mited. Study i
	1 2 3 4 5 6 7	A Item_Name Bagiya Yorghut Soda Rolex Toilet Paper Ream (Rotatrim)	B Quantity 28 100 52 200 600 15	C Unit_Price 250 700 800 1,500 250	D	mited. Study i

Re	vision 1	Kit - S4_		66 <u> </u>	Computer Studies
	•••••	(vii).	COUNT.		
	•••••	(vi).	MODE.		
	•••••	(iv).	<i>IF</i> .		
		(iii).	RANK.		
		(ii).	AVERAGE.		
		(i).	SUM.		
<i>7</i> .	(a).	Expla	in the following funct	ions as used in a	spreadsheet program:
		(iii).	Total cost for pens bo	ought by the reta	iler.
		(ii).	Lowest unit_price.		
	••••	(i).	Highest quantity boug		
	(<i>d</i>).	Write	a formular to determin		;;
	•••••	•••••			
	(c).	Expla	in what facility was us	sed in order not	to show rows 9 and 10 respectively.

	(b).	Describe how you would sort data using a spreadsheet program.
	•••••	
	•••••	
	•••••	
	•••••	
	(c).	Explain how you would add a new worksheet in a workbook.
	•••••	
	•••••	
8.	(a).	Explain the use of a function in a spreadsheet program.
	•••••	
	(b).	If a formula =IF(B2>=60,"Promoted","Repeat") is generated by a spreadsheet user, explain what is most likely to be output for the two conditions when applied to a set of marks.
	•••••	
	•••••	
	•••••	
	(c).	Outline three qualities of a good graph in relation to a spreadsheet program.
	•••••	
	•••••	
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	(d).	Expl	ain the following terms:	
		(i).	Auto re-calculate.	
		(ii).	Auto fill.	
	(e).	Wha	t is the function of a <i>cross-hair handle</i> in a spreadsheet pr	
9.	(a).	State	four examples of graphs that can be used in a spreadshed	et program.
	(b).	Write	e down a function you would use to perform the following ram:	g in a spreadsheet
		<i>(i)</i> .	Position of each student basing on the total marks.	
	•••••	(ii).	Adding up scores for four subjects.	
	•••••	(iii).	Determine the largest value in a selected range of cells.	
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		(IV).	Determine the number of entries in a given column.
	(c).	(i).	What is a cell range ?
		(ii).	How many cells are in the cell range (B4:F16)?
10	 . (a).	What	is an error message ?
	(<i>b</i>).	Expla	ain the following error messages displayed in a spreadsheet program:
		(i).	######
		(ii).	#DIV/0!
	••••	(iii).	#Name?
		(iv).	#Value!
	•••••	(v).	#REF!

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(vi).	#Num!
(vii).	#NULL
(c). Describ	be the following application sections on a spreadsheet application interface:
(i).	Name box.
(ii).	Formular bar.
(iii).	Data series.
(iv).	Legend.
•••••	

COMPUTER NETWORKS

1.	(a).	Defin	e the term data communica	tion.	
	•••••	•••••			
	(b).	State	any four components / eleme	ents of data communicat	ion.
	•••••	•••••			
	•••••	•••••			
	(c).	With	examples, explain the follow	ing data communication	components:
		(i).	Sender.		
	•••••	•••••			
	•••••	(ii).	Receiver.		
	•••••	•••••			
	•••••	·····			
		(<i>111)</i> .	Communication device.		
	•••••	•••••			
		(iv).	Protocol.		
	•••••	•••••			
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(V1). Communication channel.
Outline five advantages and four disadvantages of data communication.
lvantages:
sadvantages:
. Explain any five data communication tools used in an organisation.

	(c).	State use.	four factors			_		
	•••••							
3.	(a).	Defin	ne the term c o	_				
	•••••							
	(b).	(i).	State four 1	bases for cl	lassifying o	computer	networks.	
						••••••	•••••	 •••••
		(ii).	Explain six					
	•••••							
		•••••						
	•••••							
		•••••						
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	•••••	•••••							
	•••••	•••••	••••••	•••••	••••••		••••••	•••••	
	•••••	•••••		••••••	••••••			•••••	
		(ii).	Give four ac	dvantages of	using a c	linent - t	o - server n	network.	
	•••••								
	(b).	(i).	Give the diff	ference betw	een a ser	ver and a	a stand - a l	lone compu	iter.
	•••••								
4.	(a).	Give	two reasons f						
	•••••	•••••			•••••				
	(d).		ne three disac	_		_			
		•••••							
	•••••								
	(c).		four advanta		_				
		~	0 1				1		

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						••••••
	•••••					•••••
						•••••
	(c).	Describe four fo	orms of resources t	hat can be share	d across a compute	r network.
	•••••					•••••
	•••••					
	(b).	Outline three d	isadvantages of usi	ng a computer r	network to a school	l .
	•••••					•••••
5.	(a).	List five examp	les of computer cri	mes committed	across a computer	network.
	•••••					•••••
	•••••					
	(c).	Under what circ	cumstances may on	e prefer a peer -	to - peer network	<i>!</i>

			Т
	Bus topology	Ring topology	Star topology
(c).	Give three characteristics	s of a bus topology.	
•••••			
•••••			
•••••	••••••		
(d).	State three advantage of	using cables for data tra	nsmission across a netwo
•••••	••••••		
•••••	••••••		
'. (a).	State. any three examples	s of cable types available	e for data communicaitor
•••••			
•••••			
(b).	Explain four factors to co		a network topology for
	configuration in a compu	ter raboratory.	
•••••			
			•
•••••			

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6. (a). Using an illustration, draw a simple structure of the following:

	(c).	(i).	C	ded transmission med	lia?
		(ii).		les of un-guided transn	nission media.
	(d).		four advantages o	of using mobile compu	ter networks.
8.	(a).	Defii	ne a computer netv		
	(b).	Write (i).	C		ntion to computer network:
		(ii). (iii).			
		(iv). (v).			
	(c).	exist	ng network.		onnect a computer to an already
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		•••••				
		(ii).	Switch.			
	<i>(b)</i> .		the use of the <i>Hub</i> .	following commun	icaiton hardware de	vices:
		••••••				
		•••••				
		(ii).		_	ng hardware devices	
		•••••				
<i>)</i> .				_		
9		(i)	What are net	working hardward	· devices?	
	•••••	•••••				
	(u).	Sugg	gest tour funct	ions of a computer	network administrat	or to an organisation.

(iii). Repeater.
(iv). Bridge.
(v). Modem.
(v). Router.
(c). Give three qualities of a good network administrator.
(d). Suggest four functions of a computer network administrator to an organisation

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10.(a).	(i).	Define a computer server.
	(ii).	State four characteristics of a good computer server computer.
	(iii).	Outline the different forms of <i>computer servers</i> an organisation may implement.
(b).	Give	e three advantages of using a <i>star</i> over a <i>ring</i> topology in an organisation.
	•••••	
 (c).	Outl	ine four disadvantages of using wireless networks.
•••••	•••••	

Computer Studies

SYSTEM START-UP AND CONFIGURATION

!.	(a).	Defir	Define the following terms as used in computer studies:						
		(i).	System start - up.						
			System configuration.						
			State two methods of starting a computer.						
	•••••	•••••							
		(ii).	Outline the steps a computer takes to start - up.						
	•••••	••••••							
	••••								
	•••••								
	•••••	•••••							
	•••••	•••••							
	•••••	••••••							
	•••••	•••••							
	•••••								

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	(c).	_	ain five software s s computer well.	system requirer	nents Jonathai	n should have	in order to set
	•••••	•••••					
		•••••					
		•••••					
	(b).		e a list of five com			rements a use	er should
	•••••	•••••					
2.	(a).	Disti	nguish between n				
		(ii).	Explain the <i>two</i>		_		
	(c).	(1).	what are compu	ner system re q	uirements?		

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	•••••	•••••			
	·	···/•	onder what of	is a user p	and the computer set.
		(ii).	Under what ci	rcumstance may a user r	orefer a full on his computer set?
	•••••	••••••			
	••••	• • • • • • •			
	••••	••••			
	(b).	(i).	Distinguish be use.	tween installing and un	- installing as used in software
	•••••	•••••			
	•••••	• • • • • • • • •			
	•••••	•••••			
	•••••	•••••			
	•••••	• • • • • • • •			
	((ii).	computer itself.		
	•••••	•••••			
	•••••	•••••			
	•••••	•••••			
	•••••	•••••			
	•••••	•••••			
		(i).	internet.		
٠.	(u).		irments using the		early out to lucinity system
3.	(a).	Desc	cribe a step - by -	- step process you would	d carry out to identify system

	(c).	Expl prog	ain five factors you would consider before installin ram.	g a computer application
	•••••	•••••		
	•••••	•••••		
	•••••	•••••		
	•••••	••••••		
	•••••	•••••		
4.	(a).		rify seven components you would <i>add / replace</i> in crease its performance.	a computer system unit
	•••••	•••••		
	•••••	•••••		
	•••••	•••••		
	•••••	••••••		
	•••••	•••••		
	•••••	••••••		
		············		
	(b).	(1).	Define a computer port .	
	•••••	••••••		
	•••••	(ii).	List five examples of computer ports that may be	a available to connect
		(11).	peripheral devices.	e available to connect
	•••••	•••••		
	•••••	•••••		
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	(c).	After connecting a of them may not w		outer, state five reasons why some
	•••••			
5	Vou	haya baan proyidad	with the following hardwar	e components in a new condition:
J.		-	ouse, system unit, UPS, po	-
	(a).	Describe how you computer set.	would connect the above co	mponents to have a fully working
	•••••			
	•••••			
	•••••			
	•••••			
	•••••			
	•••••			
	•••••			
	•••••			
	(b).	State four other ite more functional at		to making this comptur system
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).	Exp	Explain the use of the following hardware components:				
		Power supply unit.				
	•••••					
	(b).	Mother board.				
	(c).	System fan.				
	•••••					
	(d).	Expansion cards.				
	(e).	Storage bays.				
	(f).	Central processing unit.				
	(g).	Memory (RAM)				

Computer Studies

7.	(a).	Expla	plain the following forms of software installations:		
		(i).	Clean install.		
	•••••	•••••			
		(ii).	Re - install.		
	•••••	•••••			
		(iii). 	Upgrade install.		
	•••••	•••••			
		(iv).	Multi-boot install.		
	•••••				
		(v).	Virtualisation install.		
	(b).		down a check - list of seven activities you would carry out at a time of ling an operating system.		
	•••••	•••••			
		•••••			
		••••••			
		• • • • • • • • • • • • • • • • • • • •			

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8.	. (a). Outline steps you would need to install an operating system in your con			
	•••••			
	•••••			
	•••••			
	•••••			
	•••••			
	(b).	Explain you you can install an application program from the following locations:		
		(i). A compact disc - ROM or DVD - ROM		
	•••••			
	•••••			
	•••••			
		(ii). A USB flash disk.		
	•••••			
	•••••			
	•••••			
	•••••			
		(iii). A web page.		
	•••••			
	•••••			
	•••••			

Computer Studies

		(iii). Device not ready.	
		(iii). Disk not found.	
		(ii). Disck is full.	
	(c).). Describe the following error messages that a (i). Access denied.	
	(b).). Suggest three reasons for upgrading comp	
9.	(a).). Explain how you can un - install an applica	tion program from your computer.

10.(a).	Describe the follo	escribe the following icons found on the computer's screen:		
	(i). My Compute	er.		
	(ii). My Network	Places.		
•••••	(iii). My Docume	nts.		
•••••				
	(iv). Recycle bin.			
	(v). Control Pan	vel.		
•••••		•••••••••••••••••••••••••••••••••••••••		
(b).	Describe any ten computer more us	tools residing in a control pannel that can be used to make a er friendly.		
•••••				
•••••				
•••••				
•••••				
•••••				

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Revisi	on K		91 Co	omputer Studies
(t 	o). 		e four advantages of using a folder in file management.	
			 	
••	•••••	•••••		
•••	•••••	•••••		
•••	•••••	•••••		
	(ii).	Write a list of procedure you would take to create a folder	for use.
•••	•••••	•••••		
•••	• • • • • •			
11.(8	1).	(1).	Give the difference between a file and a folder .	
11 (Give the difference between a file and a folder	
•••	•••••	•••••		
•••	•••••	•••••		
•••	•••••	•••••		
		(ii).	Give four qualities of a good password.	
•••	•••••	•••••		
•••	•••••	•••••		
•••	•••••			
	c). 		Explain how you can add a user account in your computer	
10	')	(1)	Explain how you can add a liser account in your complife	•

(c).	Expla	ain the following types of computer files:
		System file.
•••••		
		Program file.
•••••	·····	
		Executable file.
•••••	• • • • • • • • • • • • • • • • • • • •	
(d).	(i).	
	•	
•••••	• • • • • • • • • • • • • • • • • • • •	
	(ii).	Outline three qualities of a good file name.
•••••	• • • • • • • • • • • • • • • • • • • •	
	(iii).	Give three examples of executable file extensions.
••••	• • • • • • • • • • • • • • • • • • • •	
•••••	•••••	
•••••	•••••	

Computer Studies

2.(a).	Write down four activities that can be carried out on a file.
	State four causes of file corruption in a computing environment.
(c).	Outline three measures you would adopt to control file corruption in a computer laboratory.
(d).	Explain five causes of data losss in a computer laboratory.
•••••	
•••••	
•••••	

Computer Studies

THE INTERNET AND WORLD WIDE WEB (WWW)

1.	(a).	Define the term Inte	ernet.			
	(b).	State five advantages	sand five disadvantages of u	using the internt in an organisation.		
	Adva	antages:				
	•••••					
	•••••					
	Disa	dvantages:				
	•••••					
	•••••					
	•••••					
	•••••					
	(c).	Describe the terms a	as used in relation to intern	et use:-		
		(i). Intranet.				
	•••••					
	•••••					
D or		7it _ SA	94	Computer Studies		

). Extranet.
	•••••	
	•••••	
	•••••	
	(d).	List five requirements you would need before establishing an internet connection.
	•••••	
	•••••	
	•••••	
	•••••	
	•••••	
2.	(a).	Outline seven services provided by the internt to an organisation.
	•••••	
	•••••	
	•••••	
	•••••	
	•••••	
	•••••	
	•••••	
	(b).	dentify the following domain extensions:
		i)com:
		ii)net:
		iii)mil:

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Re	vision I	 Xit - S4_	96	Computer Studies
		(<i>ii</i>).	Website.	
3.	(a).	_	ain the following terms as used in relation to i Web page.	nternet use: -
	•••••	•••••		
	•••••	•••••		
	•••••		Give six examples of web browsers common	
	•••••	•••••		
			What is a web browser ?	
	•••••	•••••		
	(c).		the difference between the Internet and WW	
		(v).	.org:	
		(iv).	.gov:	

		(111).	Surfing.
		(iv).	Uniform Resource Locator.
		(v).	Search engine.
		(vi).	Cookies.
		(v).	Bookmark.
4.	(a).	(i).	What is the work of a <i>search engine</i> to internet users?
			Give four examples of search engines commonly used.

Computer Studies

(b).	(i).	Explain any seven forms of crime committed by using	the internet.
•••••	•••••		•••••
•••••			•••••
••••			
•••••	• • • • • • • • • •		•••••
•••••	••••••		•••••
•••••	••••••		•••••
	(ii).	Suggest any four ways you would control internet relacomputer laboratory.	ated crime in a
•••••	•		••••••
•••••	••••••		
•••••	• • • • • • • • • • • • • • • • • • • •		
•••••	••••••		
(c).	Disti	nguish between hacking and cracking .	
•••••	••••••		
•••••	•••••		
•••••	• • • • • • • • • • • • • • • • • • • •		
(a).	(i).	Define an e-mail .	
	(ii)	State four examples of a mailing software providers	
	(11).	State four examples of e-mailing software providers.	
ision l	 Kit - S4_	98	Computer Studies

(b).		ne five advantages and four disadvantag nunicaiton in an organisation.	es of using an e-mail for
•••••	•••••••		
•••••			
(c).	Expl	nin the following parts of an e-mail mess	age: -
	(i).		
••••	(ii).	From.	
•••••	(iii).	Subject.	••••••••••••
•••••	(iv).	Body.	
•••••	(v).	Attachment.	
•••••	(vi).	Compose / New.	
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Re	vision I	Xit - S4_	100	Computer Studies				
	•••••	•••••						
7.	(a).		the difference between the following pairs of words Sign - up and sign - in.	s:				
	•••••	•••••						
	•••••	•••••	······································	-				
	•••••	(ii).	State any two requirements needed to access an ex	xisting e-mail accounts				
	•••••	•••••						
	•••••	•••••						
		•••••						
	(c).	(i).	Describe to a senior one student how you can crea	nte an e-mail account.				
	•••••	•••••						
		•••••						
	•••••	•••••						
	(b).	Expl	ain five common crime committed using an e-mail s	software.				
	•••••	•••••						
		relat	ion to e-mail operation.					
6.	(a).		the difference between carbon copy and blind carbon copy as used in					

ift folder.	Computer Studies
ım folder.	g locations found inside an e-mail program
	l software that have made e-mail
our reasons why an e-mai	l may fail to reach its destination safely.
er - name and password.	
	- in and log - out.

	(b).	and i	y, majority of the companies prefer using e-mail programs to send adverts information about their products. State six advantages that such companies
	••••	will	benefit from.
	•••••		
	•••••	•••••	
	•••••	••••••	
9.	(a).	(i).	Define the term e-commerce.
	•••••	•••••	
	•••••	(ii).	State five advantages and three disadvantages of using e-commerce service in business.
	•••••	•••••	
	•••••	• • • • • • • •	
	•••••	•••••	
	(b).	State	e six causes of slow download speed of the internet.
	•••••	•••••	
		• • • • • • • • • • • • • • • • • • • •	

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(iii). sent folder.

(c). Describe five ways the internet contributes to teaching and learning in your school.

DATABASE MANAGEMENT SYSTEMS

? Δ1	vicion		104	Computer Studies			
	•••••						
			List six examples of database application programs.				
		•••••					
	•••••						
	(c).	(i).	State four general functions of an electronic database	e program.			
	•••••						
	•••••	••••••					
	•••••	•••••					
	•••••	•••••					
	(b).	Give	five advantages of using an electronic program over a				
		(ii).					
	•••••	••••••					
		(i).	Database.				
1.	(a).	Define the following terms as used in database management:					

Rev	vision K	Kit - S4	105		Computer Studies
	•••••		•••••	•••••	
	•••••				
	(d).	Outline five applicat	ion areas of data	base programs in	an organisation.
	•••••				
	•••••				
	•••••				
	•••••				
	(c).	·			a simple database table.
	•••••		-	•	
	(b).				database programming.
	•••••				
۷.	(a).	State the difference l			

3. The table below shows part of a database structure. Use it to answer questions that follow:

Employee No:	Name	Telephone No:	Salary	No. of Months	Date of Birth
U567/089	Babirye	0772-350408	789,000	04	17/09/1989
U567/090	Jeff	0737-888901	890,000	03	14/10/1995
U567/091	Jane	0737-444444	490,000	02	09/03/1998
U567/092	Bettie	0776003200	509,000	06	11/06/1995

(a).	Writ	e down the appropriate data types assigned to the following fields:
	(i).	Telephone number.
••••	(ii).	Employee number.
••••	(iii).	Salary.
•••••	(iv).	Number of months.
••••	(v).	Date of birth.
(b).	(i).	Suggest the suitable <i>primary key</i> field for the table above.
•	(ii).	State three qualities of a good primary key field.
•••••		
•••••	••••••	
sion l	Kit - S4_	106 Computer Studies

		(iii). How many <i>fields</i> are in the table above?
	•••••	
	(c).	Write a search condition that will return the following:
		(i). employees with a salary more than 500,000.
		(ii). employees whose name start with letter J.
		(iii). employees whose telephone number contains number "8".
		(iv). employees born from 1989 to date.
4.	(a).	Distinguish between a field name and a field .
	(b).	Descrie the folloing database objects: - (i). Table.
		(ii). Query.
		(iii). Form.
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	•••••		, ,	Report.					
	(c).			a data typ o	e?				
		(ii).		ı r example					
5.	(a).		er what cir And.	cumstance					criterion:
		(ii).						······································	
	(b).	Give	four adva	antages of u	using a qu	uery in a	databas	e.	

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	(<i>c</i>).	what (i).	Will the query return when the following conditions are used: $Year([Date\ of\ Birth])=1984$
	•••••		Len([Candidate_Name])=16
		(iii).	Like "*ry".
		(iv).	In (Kampala, Jinja, Masaka, Mbale)
6.	(a).		the difference between validation rule and validation text.
	(b).	With	examples, explain the use of the following during database design: Field size.
		(ii).	Default value.
		(iii).	Format.

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	(b).			nents of a good database	table.	
			Primary key.			
		(ii).	Candidate keys.			
7.	(a).		ain the following Surrogate keys.	as used in relation to dat	abase design:	
		(vi).	Allow duplicate			
		(v).	Alignment.			
	•••••	(iv).	Input mask.			

	(b).	Fill i	n the spaces b	elow using	appropriate	e word in rela	ation to database de	sign.
		(i)		•••••	holds data f	or a database	2.	
(i	i).	en	ables a user to database.	ask questi	ons about d	ata in a		
		(iii). is	used to prima	riry displa	y data in a d	atabase.		
		(iv). is	apaper like o	oject that is	used to ent	er data into a	ı	
8.	(a).	Expl	ain the follow	ing terms:				
		(i).	Column.					
	•••••	••••••						••••••
	••••	(ii).	Field.					
	(b).	Wha	t is the impor	ance of the	e following i	n a form:		
		(i).	Control sou					
	•••••	•			•••••			, • • • • • • •
		, ,	Toolbox.					
	(c).	mana	nge the busing interprises. W	ess. You ha	ve been ask	ed to design	naul database to hel an electronic versi ald imagine to be in	on for
Rev	ision	Kit - S4_			111		Computer Stu	ıdies

Rev	vision I	 Kit - S4_		112	 Computer Studies
		(ii).		es of wild card syn	
	(b).	(i).	What are wild can	rd symbols?	
		(iii).	Design view and o	datasheet view.	
		(ii).	Text and memo.		
		(i).	Currency and num	nber.	
9.	(a).	Disti	nguish between the		
	•••••	•••••			

ELEMENTARY PROGRAMMING

1.	(a).	Expla	ain the following term as used in elementary programming:
		(i).	program.
		(ii).	programming.
		(iii).	syntax.
		(iv).	object code.
		(v).	source code.
	(b).	State	three examples of translators that are used in a program creation.
	•••••		
	•••••		
	•••••	•••••	

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••				
••	(ii).	disadvantages of using		ming languages.
•••				
•••				
2. (a	a). State (i).	two advantages,		
	d). Give	three advantages of carr		in program creation.
•••				
•••	(iii).	Bug and debugging.		
•••				
	(ii).	Interpreter and compile		
•••				
	(i).	Translator and an assen	ıbler.	
(0	c). Disti	nguish between the follow	ving pairs of terms	s as used in prgramming.

Rev	vision I	Cit - S4		115	••••••	•••••	Computer Studies	•••
	•••••							
								•••
								•••
	•••••			••••••				•••
3.	men of p	computer club of yabers. You have been cogram developments members have to	en selected be nt cycle. Usin	eing a S4 s	student to t	ake them t	hrough the stag	ges
	•••••			•••••	•••••			•••
								•••
								•••
	(d).	State four examp	les of high le				•••••	•••
	•••••							
					••••••			•••
	(c).	Give three reasor today.	ns to suggest	why high	level comp	uter progr	ams are commo	 n
	•••••		•••••	••••••	•••••	•••••	•••••	•••
	(0).	Distinguish between	en macnine	and assen	ibiy tangua	age.		

(c). Program mainte		
(b). Coding the prog	ram.	
(17) 22		
(a). Testing and debu	-	
4. Outline four activities following program de		grammer has to undertake in the

٥.	, ,	Define a program algorithm .
	•••••	
	(b).	State two tools a programmer can use to prepare an algorith for implementation
	(c).	Outline four advantages program algorithms to a program beginner.
	•••••	
6.	(a).	What is a pseudo code ?
	•••••	
	•••••	
	(b).	Outline six advantages of using a pseudo code over a flow chart in algorithm representation.
	•••••	
	•••••	
	•••••	

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(c).	Prepare a checklist of seven guidelines you would include or consider for a good pseudo code.
•••••	
•••••	
•••••	
•••••	
•••••	
•••••	
(d).	Give four disadvantages of using pseudo coding in programming.
••••••	
•••••	
•••••	
•••••	
	e a pseudo code that can be used to prompt the user to enter the diameter of a e which will be used to calculate the perimeter and area of the circle.
•••••	
•••••	
•••••	
•••••	
•••••	
•••••	
•••••	

Computer Studies

7.

8.	Write a pseudo code that can be used to prompt the user to enter the length and width of a square which will be used to calculate the perimeter and area of the square.
9.	Write a pseudo code that can be used to prompt the user to enter two numbers that will be added.

Computer Studies

	ite a pseudo cod	e that will displ	ay a statement "ILOVE COMPUTER STUDIES"
•••••			
•••••			
•••••			
•••••			
•••••			
. (a).	Define a flow	v chart.	
• • • • • •			• • • • • • • • • • • • • • • • • • • •
(b).	Give two use	es of flow chart	ts in programming.
(b).	Give two use	es of flow chart	ts in programming.
(b).	Give two use	es of flow chart	ts in programming.
(b). (c).	Using the following		ill in the spaces provided using either text or shape
	Using the following	lowing table, f	ill in the spaces provided using either text or shape
	Using the following	lowing table, f	ill in the spaces provided using either text or shape gramming:
	Using the folto describe ac	lowing table, f	ill in the spaces provided using either text or shape gramming: Description
	Using the following to describe actions and the start / Stop Input /	lowing table, f	ill in the spaces provided using either text or shape gramming: Description Used to denote an input or output operation. For
	Using the folto describe ac	lowing table, f	ill in the spaces provided using either text or shape gramming: Description Used to denote an input or output operation. For example, READ A, B, PRINT SUM.
	Using the following to describe actions and the start / Stop Input /	lowing table, f	ill in the spaces provided using either text or shape gramming: Description Used to denote an input or output operation. For example, READ A, B, PRINT SUM. Indicates that a processing or data transformation
	Using the folto describe actions Start / Stop Input / Output	lowing table, f	ill in the spaces provided using either text or shape gramming: Description Used to denote an input or output operation. For example, READ A, B, PRINT SUM.
	Using the following to describe actions and the start / Stop Input /	lowing table, f	ill in the spaces provided using either text or shape gramming: Description Used to denote an input or output operation. For example, READ A, B, PRINT SUM. Indicates that a processing or data transformation
	Using the folto describe action Start / Stop Input / Output Decision	lowing table, f	ill in the spaces provided using either text or shape gramming: Description Used to denote an input or output operation. For example, READ A, B, PRINT SUM. Indicates that a processing or data transformation is taking place. For example SUM = A+B.
	Using the folto describe actions Start / Stop Input / Output	lowing table, f	ill in the spaces provided using either text or shape gramming: Description Used to denote an input or output operation. For example, READ A, B, PRINT SUM. Indicates that a processing or data transformation

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	(d). Suggest four guideling	nes for preparin	g a flowchart.	
•••				
•••				
••				
••				
	raw a flowchart for a progra rogram should find the sum			
	raw a flowchart for a progra			
W	idui of a rectangle, calculate	e the area and p	erimeter then disp	may the result.
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a	Design a flowchart for a program that can be used to classify people according to the age limit. If a person is more than 20 years, output "adult" otherwise output "young person"
15. S	State three factors you would consider when:
(a). Writing a pseudo code.
•	
•	
(b). Drawing a flowchart.
•	
•	
•	

Computer Studies

16	. Using illustrations, explain at least six symbols used in flowchart design
17	Draw a flowchart that would be used to classify animals according to sex. If a letter
17	M is input, the program should display 'male' otherwise it should display 'female'

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18. Write a pa	seudo code for a program that would be used to solve the equation $E = MC^2$
•••••	
19.(a). Exp	liain three reasons why a flowchart would be used instead of a pseudo e to solve a problem.
	to solve a problem.
••••	
scho of to syst to p	hool uses a simple computerized system to manage students' results. The bol administers three examinations namely; beginning of term (BOT), middle erm (MOT) and end of term (EOT). The systems administrator has set the em to get the total of the three examinations and find the average which used romote the students to the next class. If the average is below 50 student is nissed. Write a suitable algorithm that will manage the students' results.

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(i).	Sequence.				
(b).	With the aid control struct		ams, describe	each of the followi	ng programme
•••••					
21.(a).	State two qu	alities of a good ps	seudocode.		
the s If th is ch are	start of the sec ne account is se narged the amo	ond week of the neettled after the second ount of the bill. Are erest of 5%. A rep	ext month, the ond week but by ny payments af	customer is given before the last weed ter the beginning of to show each cust	a 5% discount. k, the customer of the last week
20. A co	ompany bills it	s customers on the	last day of eve	ery month. If the bi	ll is paid before

•••••	(11). Selection.		
(c).	Draw a programme f sum. If the sum is great	lowchart that would acc	cept three numbers and find their to the sum, otherwise subtracts 20 splay the results.
22. (a). (i).	•	terms in relation to con	nputer programming:
(ii).	Structuredness.		
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(iii) .	int main()		
(ii). 	#include <stdio.h< td=""><td></td><td></td></stdio.h<>		
•••••			
(c).	Explain the follow /**Comment*/	ving components of a C prog	ram structure:
•••••			
•••••			
•••••			
(b).	Describe six chara	acteristics of a good program	ming language.
 (iv)	Naturalness.		

	(iv).	Braces
	(v).	printf()
	(vi).	scanf()
	(vii).	. return 0
23.		Describe the following as used in C programming: Variable.
	(ii). '	Variable declaration.
	(iii).	Termination.
	•••••	

Computer Studies

(b). Fill in the table below the common printf() formattin specificiers:

Formatting specifier | Description

	% f		
	%d		
	%с		
	% s		
	%u		
(c). (i). What is a keywo	ord?	
••••••			
(i	i). Give four examp	oles of keywords used in the	ne C programming language.
••••••	••••••		
••••••			
•••••			
24. Write	a C program to enter to	wo numbers and find their	sum.
•••••			
•••••			
•••••			
••••••			
••••••			
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٧V	mu a	C pro	graint	o chie	ı two	nunno	cis all	perro	rm all a	u1111115	ac op	crauol	13.
•••	•••••	•••••	•••••	•••••	••••••	•••••	••••••	•••••	•••••	••••••	•••••	•••••	•••••
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W	rite a	C pro	gram t	o ente	r leng	th and	bread	th of a	rectang	gle and	find i	ts perii	met
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•••	• • • • • • • •	•••••	•••••	•••••	•••••	•••••	• • • • • • • • • • • • • • • • • • • •	•••••	••••••	••••••	•••••	•••••	••••
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Computer Studies

27.	Write a C program to enter length and breadth of a rectangle and find its area.
28.	Write a C program to enter radius of a circle and find its diameter, circumference and area.

Computer Studies

29.	Write a C program to enter length in centimeter and convert it into meter and kilometer.
30.	Write a C program to enter temperature in Celsius and convert it into Fahrenheit.

Computer Studies

. Write a C p	_	-			
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	•••••			 	
	orogram to co	-	-		

Computer Studies

. Write a C program to enter any number and calculate its square root.	. Write a C p	rogram to fi	and power	or any ma		, •		
. Write a C program to enter any number and calculate its square root.		•••••		•••••		•••••		
Write a C program to enter any number and calculate its square root.	•••••	••••••	•••••	•••••	•••••	•••••		•••••
Write a C program to enter any number and calculate its square root.				•••••	•••••	•••••		
. Write a C program to enter any number and calculate its square root.				••••••	•••••	•••••		•••••
Write a C program to enter any number and calculate its square root.								
Write a C program to enter any number and calculate its square root.		•••••		•••••		•••••		
Write a C program to enter any number and calculate its square root.								
. Write a C program to enter any number and calculate its square root.								
Write a C program to enter any number and calculate its square root.			•••••					
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	. Write a C p	rogram to e	nter any n	umber and	d calculate	e its squar	e root.	
	. Write a C p	rogram to e	nter any n	umber and	d calculate	e its squar	e root.	
	. Write a C p	rogram to e	nter any n	umber and	d calculate	e its squar	e root.	
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	. Write a C p	rogram to e	nter any n	umber and	d calculate	e its squar	e root.	
	. Write a C p	rogram to e	nter any n	umber and	d calculate	e its squar	e root.	

Computer Studies

Write a C program to enter base and height of a triangle and find its area.) prog												
Write a C program to enter base and height of a triangle and find its area.															
Write a C program to enter base and height of a triangle and find its area.	••••	••••••	•••••	••••••	••••••	••••••	•••••	••••••	••••••	••••••	•••••	•••••	•••••	••••••	•••••
Write a C program to enter base and height of a triangle and find its area.	••••	•••••	•••••	•••••	••••••	• • • • • • • •	•••••	•••••	•••••	•••••	•••••	•••••	• • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • •
Write a C program to enter base and height of a triangle and find its area.	••••	•••••	•••••	•••••	• • • • • • • • • • • • • • • • • • • •	••••••	•••••	••••••	•••••	•••••	•••••	•••••	• • • • • • • • •	•••••	•••••
. Write a C program to enter base and height of a triangle and find its area.	••••	•••••	•••••	•••••				•••••		•••••		•••••	•••••	•••••	•••••
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.Write a C program to enter base and height of a triangle and find its area.	••••	•••••	•••••	•••••				•••••	•••••	•••••	•••••	•••••	• • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • •
.Write a C program to enter base and height of a triangle and find its area.	••••												•••••		•••••
.Write a C program to enter base and height of a triangle and find its area.															
Write a C program to enter base and height of a triangle and find its area.															
		wita a (
	. W1		C prog	ram to	o ente	r base	e and	height	of a t	riang	le and	find i	ts are	a.	
	. W1	•••••	C prog	ram to	o ente	r base	e and	height	of a t	riang	le and	find i	ts are	a. 	
	. W1	•••••	C prog	ram to	o ente	r base	e and	height	of a t	riang	le and	find i	ts are	a. 	
	. W1	•••••	C prog	ram to	o ente	r base	e and	height	of a t	riang	le and	find i	ts are	a. 	
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	. W1	•••••	C prog	ram to	o ente	r base	e and	height	of a t	riang	le and	find i	ts are	a. 	
	. W1	•••••	C prog	ram to	o ente	r base	e and	height	of a t	riang	le and	find i	ts are	a. 	
	. W1	•••••	C prog	ram to	o ente	r base	e and	height	of a t	riang	le and	find i	ts are	a. 	
	. W1	•••••	C prog	ram to	o ente	r base	e and	height	of a t	riang	le and	find i	ts are	a. 	
	Wı	•••••	C prog	ram to	o ente	r base	e and	height	of a t	riang	le and	find i	ts are	a. 	

Computer Studies

. Write a C	program to cal	iculate alea	or an equita	orar triangre.		
		•••••	•••••		•••••	
		•••••	••••••		•••••	••••••
		•••••	••••••		••••••	••••••
		•••••	••••••			••••••
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				•••••	•••••	
			•••••			
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		•••••				
. Write a C percentage	program to ente.	ter marks of	f five subject	s and calculat	e total, averaș	ge and
percentage						
percentage	·					
percentage	·					
percentage	·					
percentage	·					
percentage	·					
percentage	·					
percentage	·					
percentage	·					

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40. Write a C program to enter P, T, R and calculate Compound Interest.	59	Write a C program to enter P, I, R and calculate Simple Interest.
40. Write a C program to enter P, T, R and calculate Compound Interest.		
40. Write a C program to enter P, T, R and calculate Compound Interest.		
40. Write a C program to enter P, T, R and calculate Compound Interest.		
40. Write a C program to enter P, T, R and calculate Compound Interest.		
40. Write a C program to enter P, T, R and calculate Compound Interest.		
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•	40	
	40	Write a C program to enter P, T, R and calculate Compound Interest.
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	40	Write a C program to enter P, T, R and calculate Compound Interest.
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	40	Write a C program to enter P, T, R and calculate Compound Interest.
	40	Write a C program to enter P, T, R and calculate Compound Interest.

Computer Studies

MODERN TRENDS IN COMPUTING

1.	(a).	State any four health challenges a user is bound to face as a result of using a computer regularly.
	•••••	
	(b).	State three measures that should be put in place in a computer laboratory to safeguard users' health.
	•••••	
	•••••	
	(c).	Give two ways through which a computer user can minimise Repetitive Strain Injuries (RSI) associated with the use of a computer
	(d).	
	•••••	
	•••••	(ii). Outline five ethical concerns normally expressed in a computer laboratory.
	•••••	
	•••••	
	•••••	

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	(e).	(i).	Define the term b	iometrics.	
	•••••	••••••			
	•••••	•••••			
		(ii).	Give four example	les of biometric de	evices used in a computer laboratory.
	•••••	•••••			
	•••••	•••••			
		•••••			
	•••••	••••••			
		(iii).	Identify three adv	vantage of using bi	iometric devices.
	•••••	•••••			
	•••••	••••••			
2.	(a).	Dist			les in relation to computer use.
		•••••			
	•••••	••••••			
	•••••	•••••			
	(b).		intend to establish a klist of code of code		ory in your community. Prepare a to observe.
	•••••	•••••			
		•••••			
	•••••	••••••			
	•••••	•••••			
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	(c).	(1).	Define the term computer integrity. .	
	••••	(ii).	State the three components of computer integrity in	daily use.
	•••••	•••••		
	(d).	(i).	What is system security ?	
	•••••	(ii).	Identify four areas that are a security threat to a com	puter user.
		······································	W/l	
•	(a).	(1).	What is a computer virus ?	
		(ii).	State three signs of a computer that has been infect by	-
	•••••			
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protecting computers.	
State four activities anti-virus programs carry ou	it in the process of
What is the work of an anti-virus program to a continuous contin	computer?
lain four ways a computer set can be protected aga	-
cribe any five properties of computer viruses.	

	•••••	 Kit - S4_	142	Computer Studies
	•••••	•••••		
	•••••	•••••		
	•••••	•••••		
	•••••	•••••		
	•••••	•••••		
			effects of computer crime.	
		(ii).	Outline six ways a user can safeguard his or her com	nputer against
	•••••			
	(b). (i)	. Distinguish between hacking and cracking as used	in computing.
	•••••	••••••		
	•••••	••••••		
		(ii).	State three examples of computer crimes committed	in laboratory.
	•••••	•••••		
	•••••	•••••		
4.	(a).	(i).	Define the term computer crime ?	
		•••••		
		(111).	Give three examples of anti-virus programs.	

	(c).	(i).	Define the term system f	ailure.	
	•••••	••••••			
	(ii).	State	four ways system failure c		in a computer laboratory.
		••••••			
	(d).		er related problems that sho	ould be addressed	oply problems. Describe three
5.	(a).	(i).	Define the term compute	r vandalism.	
		(ii).			be minimised in a laboratory.
	(b).		Give the meaning of term		
Re	vision I	 Kit - S4		143	Computer Studies

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(ii).	Give two reasons a company may suggest a theft.	
(c). (i).	What is the meaning of the term information	
(ii).	State four dangers of software piracy to an	organisation.

6.	State	State three responsibilities of each of the following personnel in a school.		
	(a).	Database administrator.		
	•••••			
	•••••			
	(b).	Technician.		
	•••••			
	•••••			
	(c).	System analyst.		
	(d).	Computer laboratory attendant.		
	•••••			
	•••••			
	(e).	Application instructor.		
	•••••			
	•••••			
	•••••			

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	•••••			
	(iv).	Expert systems.		
	•••••			
	(iii).	Virtual reality.		
	•••••			
	(ii).	Digital forensics		
	(i).	Artificial Intellig	gence.	
7.	(a).		wing terms as used in computi	
	•••••			
	(g).	Graphics designe	r.	
	•••••			
	•••••			
	(I).	Software engineer	: .	

(v).	Virt	ualisation.
	••••••	
(b).	(i).	Define the term cloud computing .
	(ii).	State three advantages and two disadvantages of cloud computing to a user.
Adv	antage	es:
•••••	•••••	
•••••		
	advanta	ages:
•••••	••••••	
•••••	•••••	

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