Candidate's Name	
Signature	Personal Number

840/1 COMPUTER STUDIES Paper 1 Jul. / Aug. 2023 2¹/₂ hours

Uganda Certificate of Education

COMPUTER STUDIES Paper 1

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

Write your name, signature and personal number in the spaces above

This paper consists of three Sections A, B and C.

Section **A** contains **20 compulsory** objective type questions. The correct alternative **A**, **B**, **C** or **D** must be written in the box provided on the right hand side of each question.

Section **B** contains **six compulsory** structured questions. Answers to Section **B** must be written in the spaces provided in the question paper.

Section C contains three equally weighted practically-theory questions. Answer only **one** question. Answers to Section C must be written on the answer sheet(s) provided.

Any additional question(s) answered will not be marked.

For Examiners' Use only

MCQ	Q21	Q22	Q23	Q24	Q25	Q26	Q27	Q28	Q29	TOTAL

SECTION A: (20 MARKS)

Answer **all** questions in this section.

1.	The	first calculator that could perform all the four arithmetic operations	
	(Ad	dition, Subtraction, Multiplication, and Division) was known as.	
	A.	Slide Rule.	
	B.	Pascal's Calculator.	
	C.	Jacquard Rule.	
	D.	Stepped Reckoner.	
2.	A te	elephone line is an example of a	
	A.	Multiplex channel	
	B.	Simplex channel	
	C.	Full duplex channel	
	D.	Half duplex channel	
3.	The	following is the best video camera that can be used to upload still in	nages or
	mot	ion video with the aid of software during a video conference meeting	5
	A.	Digital camera.	
	B.	Microfilm camera.	
	C.	Camcorder.	
	D.	Web camera.	
4.	The	human readable version of a program.	
	A.	Object code	
	B.	Source code	
	C.	Machine code	
	D.	Assembly language	
5.	Whi	ich of the following views of web authoring software allows a web d	esigner
	to w	ork directly with the HTML tags?	
	A.	Split view	
	B.	Code View	
	C.	Design View	
	D.	Normal view	
6.		ich one of the following formatting features of the font draws a line t	through
		middle of the selected text in word processing	
	A.	Superscript.	
	В.	Subscript.	
	C.	Underline.	
	D.	Strike through.	

7.	The f	following is NOT an advantage of using off-shelf software package They are relatively cheaper than custom software.	es
	В.	They are already available for purchase.	
	C.	They satisfy all user specific requirements.	
	D.	The user doesn't pay research and development costs.	
8.	The	following computers are classified by size except?	
	A.	Main frame.	
	B.	Super computer.	
	C.	Mini computers.	
	D.	Real-time computers.	
9.	Whic	ch one of the following tags is written incorrectly?	
	A.	<title> The title is here <title></td><td></td></tr><tr><td></td><td>B.</td><td>This is my first paragraph</td><td></td></tr><tr><td></td><td>C.</td><td><h1> This is my heading </ h1></td><td></td></tr><tr><td></td><td>D.</td><td><head> This contains the header </ head></td><td></td></tr><tr><td>10.</td><td>The</td><td> displays the address of an active cell.</td><td></td></tr><tr><td></td><td>A.</td><td>Formula bar</td><td></td></tr><tr><td></td><td>B.</td><td>Name box</td><td></td></tr><tr><td></td><td>C.</td><td>Macros</td><td></td></tr><tr><td></td><td>D.</td><td>Function bar</td><td></td></tr><tr><td>11.</td><td>The l</td><td>legal term that refers to creations of the mind that may include softv</td><td>vare,</td></tr><tr><td></td><td>musi</td><td>c, literature, discoveries and inventions.</td><td></td></tr><tr><td></td><td>A.</td><td>Intellectual property</td><td></td></tr><tr><td></td><td>B.</td><td>Patent</td><td></td></tr><tr><td></td><td>C.</td><td>Trademark</td><td></td></tr><tr><td></td><td>D.</td><td>Copyright laws</td><td></td></tr><tr><td>12.</td><td></td><td> is part of system software designed to configure, ana</td><td>lyses,</td></tr><tr><td></td><td>optin</td><td>nize and maintain a computer in operation</td><td></td></tr><tr><td></td><td>A.</td><td>Application software.</td><td></td></tr><tr><td></td><td>B.</td><td>Utility software.</td><td></td></tr><tr><td></td><td>C.</td><td>Programing software.</td><td></td></tr><tr><td></td><td>D.</td><td>General purpose software.</td><td></td></tr></tbody></table></title>	

13.		se are boxes with dotted lines on the slide that allows a presenter to a senter to a slide with a single click.	add
	A.	Speaker notes.	
	B.	Action buttons.	
	C.	Placeholders.	
	D.	Slide layouts.	
14.	com	is a dedicated computer or a software system running puter that acts as an intermediary between an endpoint device, such puter, and another server from which a user or client is requesting a	as a
	A.	Proxy server	
	B.	Dedicated server	
	C.	File server.	
	D.	Web server	
15.		process of creating one or more regions on a secondary storage medeach region can be managed separately is called	lia so
	C.		
	D.	Disk cleaning	
16.	Whi A. B.	ch one of the following is not a feature of a database management sy Spell checker	ystem?
	Б. С.	Queries Records	
	D.	Fields	
18			. 0
17.	A.	ch one of the following storage media has the highest data transfer r Memory card	ate?
	В.	Magnetic tape	
	C.	Compact disc	
	D.	Blu-ray disc	
18.		omputer professional who can design and develop computer components as storage devices, motherboards and other electronic components. Web designer.	
	B.	Database administrator.	
	C.	Computer Engineer	
	D.	Computer programmer	

19.		ch one of the following keyboard key will activate the num	eric keypad
	A.	Shift key.	
	B.	Control key.	
	C.	Num-lock key.	
	D.	Caps lock key.	
20.	The	following measures are intended to increase the speed of the	ne computer
	exce	ept	
	A.	Updating outdated software	
	В.	Installing more RAM	
	C.	Replacing magnetic disks with SSD drives	
	D.	Buying a new LCD monitor	
		SECTION B (60 MARKS) Answer all questions in this section	
		All answers must be written in the spaces provid	ed.
21.	(a)	Explain the meaning of the following categories of comp an example of each	outers and give
		(i) Analogue computer	(02 marks)
	••••		•••••
	••••		
	••••		
		Example.	(01 mark)
		(ii) Digital computer	(02 marks)
		(ii) Digital computer	(02 marks)
	••••		
		Example.	(01 mark)

	(b)	Define the term computer hacking	(02 marks)
	••••		
	••••		
	••••		
	(c)	Suggest two possible measures that can be applied to against hacking	protect computers (02 marks)
		(i)	
		(ii)	
22.	(a)	Explain the function of the following components to processing unit	the central
		(i) Control unit.	(01 mark)
		(ii) Arithmetic logic unit.	(01 mark)
		(iii) Cache memory.	(01 mark)

(b)	Name	three exam	ples of non-	impact printe	ers.	(03)	marks)				
	(i)			•••••							
	(ii)	(ii)									
	(iii)	(iii)									
(c)	State	two types of	booting a co	omputer.		(02 1	marks)				
	(i)						•••••				
	(ii)						••••				
(d)	Identi	fy two possi	ble problem	s why a com	puter may fa		marks)				
	(i)						•••••				
(a)		ollowing objer the questio	ect shows a	-							
	The f	ollowing obj	ect shows a	database que	ery in design		and MEDICAL FEE				
eld: P	The f	ollowing objer the questio	ect shows a	database que w.	ery in design	view. Study					
eld: P	The fanswe	ollowing objer the question	ect shows a ons that follo	database que w.	ery in design	view. Study	MEDICAL FEE				

23.

entry	tify one field where a lookup wizard would be applied.	(01 mark)
Write	e the criteria for returning patients born in February.	(02 marks)
Expl	ain the meaning of the following terms used in spread	lsheets
(i)	Relative reference.	
(ii)	Absolute reference.	
 (iii)	Cell address.	(01 mark)
State (i)	two examples of spreadsheets software.	(02 marks)
(ii)		

	Give (i)	the function of the following network hardware. Modem.	(02 marks
• • • • • • • • • • • • • • • • • • • •			
	(ii)	Repeater.	(02 marks
••••	• • • • • • • •		
••••	(iii)	Switch.	(02 marks
	• • • • • • • • • • • • • • • • • • • •		
(b)		n the following URL of a website. s:www.sharebility.net/exams/computer.html	(03 marks
	Ident	tify the	
	(i)	Protocol	
	(ii)	Domain name	
	(ii) (iii)	Domain name	
(c)	(iii)		

(b)	(i)	t do the following errors mean in word processing? Red – wavy underline.	(01 mark)
••••	• • • • • • • • • • • • • • • • • • • •		
•••••	(ii)	Green – wavy underline.	(01 mark)
••••	• • • • • • •		
			• • • • • • • • • • • • • • • • • • • •
(c)		feature of Microsoft word that allows you to create a larger at the beginning of a paragraph is called.	ge capital (01 mark)
(d)		tify the most appropriate feature of presentation suitable wing explanations. A slide that allows the user to control all aspects of a sappearance includes background color, font style and a presentation.	lide an on screen (01 mark)
	(ii)	These are texts added to the slide as a reference for the	
	(iii)	This is a special view that shows the slide and the speatihe same page.	lker notes on (01 mark)
	(iv)	This is an animation-like effect that takes place when y from one slide to the next one.	
	(v)	These are basically thumbnails of slides printed togeth of paper.	er on a sheet (01 mark)
(a)	Defin	ne the term operating system	(02 marks)

26.

	(b)	State two advantages of a command line interface over a graphical user interface (02 marks)
		(i)
		(ii)
	(c)	Name two examples of operating system software for desktop computers. (02marks)
		(i)
		(ii)
	(d)	State two categories of low-level programming languages. (02 marks)
		(i)
		(ii)
	(e)	Give two advantages of low-level programing languages. (02 marks)
		(i)
		(ii)
		SECTION C. (20 MARKS)
	4	Answer only one question from this section. Answers to the question must be written in the answer booklet provided.
27.	(a)	Explain any five possible causes of slow system performance of a computer. (10 marks)
	(b)	Suggest any five solutions to the problems identified in 27 (a) (10 marks)
28.	(a) (b)	Explain any four advantages of client-server network. (08 marks) Describe any four networking topologies and layouts commonly used in networking. (12 marks)
29.	_	ain any five examples of emerging technologies and their negative ications to the society. (20 marks)