Candidate's name				• • • • •	• • • • •	• • • • • •	•••••		• • • • •
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(Do not write your School/Centre Name or Number anywhere on this booklet)

840/1 COMPUTER STUDIES Paper 1 Oct./ Nov. 2020 2 ½ hours



UGANDA NATIONAL EXAMINATIONS BOARD

Uganda Certificate of Education

COMPUTER STUDIES

Paper 1

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

Write your name, signature, random and personal numbers in the spaces above.

This paper consists of three section; 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 practical-theory questions. Answer only one question. Answers to section C must be written in the answer booklet(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
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Turn Over

SECTION A (20 MARKS)

Answer all questions in this section.

1.	Which one of the following types of software assists a user to manage and maintain the computer?								
	A. B. C. D.	utility programs. application software. compilers. interpreters.							
2.	Prese	entation software can be applied when							
		 (i) creating an organization chart. (ii) creating queries and reports. (iii) displaying email messages. (iv) enhancing communication with visual aids. 							
	A. B. C. D.	(iii) and (iv). (ii) and (iii). (i) and (iv). (ii) and (iv).							
3.	A computer specialist involved in the determination of an organisation's information needs is referred to as a								
	A. B. C. D.	Systems Programmer. Systems Administrator. Systems Analyst. Systems Engineer.							
4.	The f	ollowing are advantages of using computers in an education institution							
	A. B. C. D.	admission of students is made easy. more job opportunities are created. compiling of students' marks is improved. E-learning can be applied.							
5.	The a	bility of a computer to handle repetitive work with the same speed and acy is referred to as							
	A. B. C. D.	diligence. adaptability. reliability. automation.							

6.	Log off as applied in computers refers to							
	A. B. C. D.	closing a program by a user. switching on the computer when it hangs. shutting down a user account then restarting it. ending a session by a user.						
7.	The fo	ollowing are image file formats except						
	A. B. C. D.	Graphic Interchange Format (GIF). Graphical User Interface (GUI). Portable Network Graphics (PNG). Joint Photographic Experts Group (JPEG).						
8.	The ta	ags that would create a link to page 2 in HTML are						
	A. B. C. D.	<pre>< href = "page 2. html" > click here to go to page 2 < / a >. < a href = "page 2. html" > click here to go to page 2 < / a >. < href = "page 2. html" > click here to go to page 2 < a >. < a href = "page 2. html" > click here to go to page 2 a / >.</pre>						
9.	In dat	abase software, organizing data in more than one table is known as						
	A. B. C. D.	flat file database. referential database. hierarchical database. relational database.						
10.	The f	ollowing are icons of windows operating systems except						
	A. B. C. D.	Mozilla Firefox. Internet Explorer. My Computer. Recycle Bin.						
11.	How	can text be selected in word processing, without using a mouse?						
	A. B. C. D.	Use the arrow keys while holding the space bar. Use the arrow keys while holding down the control key. Use the arrow keys while holding down the shift key. Use the arrow keys while holding down the ALT key.						

12	2. A	a program code that is in a machine readable form is referred to as	
	Α	an assembler.	
	В	a source code.	
	C.	a translator. (gradulo 5% and i) become a second and the second	
	D.	an object code.	
13	. Or	ne method of gathering data during system development is	
	A.	. coding.	
	B.	testing.	
	C.		
	- D.	encryption.	
14.	Αc	computer can be guarded against unauthorised access using	
	A.	an antivirus.	
	B.	a web browser.	
	C.	a search engine.	
	D.	a password.	
15.	In a	a computer system unit, the CPU is	
	A.	a storage place for data and programs.	
	B.	an information base in the processor.	
	C.	a device that serves as the main data processor.	
	D.	a disc device with data that can be processed.	
16.	The as so	phrase that is used to describe devices that work with a computer sy oon as they are connected is	⁄stem
	A.	Plug and Play.	
	B.	Point to Point.	
	C.	Peer to Peer.	
	D.	Start and Run.	
17.	The f	factors below affect communication speed over the Internet except	
	A.	processor of the computer.	
	B.	physical size of the computer.	
	C.	bandwidth.	
	D.	traffic on the Internet.	
		on the internet.	

10.	How	many characters of information can be stored by a byte?	
	A.	1	
	В.	10	
	C.	8	
	D.	2	
19.	The to	term MODEM stands for	
	A.	Modern Decompressor.	
	В.	Modern Demodulator.	
	C.	Modulator Decompressor.	
	D.	Modulator Demodulator.	
20.	In spi	readsheets, an active cell is the	
	A.	current cell.	
	B.	cell which is empty.	
	C. 7	cell with data.	
	(, , , D. ()	cell address.	
		SECTION B: (60 MARKS)	
		Anguar all quartions in this section	
		All answers must be written in the spaces provided.	
21	(a)	List three features of the first generation of computers.	(03 marks)
		(i)	
		(ii)	
		(iii) **********************************	(9)
	(b)	Explain the following computer classifications:	
		(i) Digital computers.	(02 marks)
			••••••••
		(ii) Analog computers.	(02 - 1)
		(ii) Malog computers.	(02 marks)
		••••••	

	(c)	State any three areas where Artificial Intelligence is appli	ed. (03 marks)
		(i)	
		(ii)	
		(iii)	
22.	(a)	Identify an output device for each of the following tasks:	
		(i) Produce music or voice output.	(01 mark)
		(ii) Display text, graphics, video or animation.	(01 mark)
		(iii) Produce a photograph on paper.	(01 mark)
		(iv) Print a large size architectural drawing.	(01 mark)
	(b)	Suggest any two factors you should consider when buying	
		(i)	(02 marks)
		(ii)	
	(c)	Distinguish a computer alert from an error message.	(04 marks)
			••••••

23. (a) The worksheet below shows scores for different houses in a school. Use the worksheet to answer the questions that follow.

POSITION
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4
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41)

Suggest an application program that can be used to manipulate (i) (01 mark)the given data. How many columns are in the given worksheet? (ii) Write the formula for determining the modal score for (iii) COMPOUND. (01 mark)Write the formula for finding the position of each house using (iv) the TOTAL SCORE. (01 mark) Outline two advantages of applying a primary key to a database table. (b) (02 marks) (i) (ii) Distinguish between Text and Memo data types in relation to databases. (02 marks)

	(d)	Give	two features of a good databa	se table design.	(02 marks)
		(i)			
		(ii)		wq mark w	
24.	(a)	Expla	ain the terms below as used in	computer studies.	
		(i)	Internet.		(02 marks)
		(-)			<u> </u>
		•••••			
		(ii)	Internet Service Provider.		(01 mark)
				1.514	12
		4			• • • • • • • • • • • • • • • • • • • •
		2000	- 4 -		
		(iii)	E-mail software.		(02 marks)
		• • • • • • • • • • • • • • • • • • • •			•••••
			tagina e na i agira as un		(1)
					-
	(b)	Diffe	erentiate between a website and		
	(0)	Diffe	remate between a website and	a nomepage.	(02 marks)
		•••••			•••••
					•••••
	der ead				
					••••••••
	(c)	Usin	g the URL: http://www.army	wohoolo - 1 /	,,
		ident	tify the:	schools.edu/news/ s	ports. htm,
		(i)	•		
	100	(ii)	Protocol	,	••••••
		, ,	Domain name		•••••
		(iii)	Path	•••••	
					(02
25.	(a)	State	any two uses of a ruler in a wo	ord progesies	(03 marks)
		(i)		·····	(02 marks)
			***************************************		•••••
		(ii)			•••••
		/			•••••
		•••••			
					•••••

	the meaning of each of the following terms as ssing:	used in word
(i)	Text Alignment.	(02 marks)
• • • • • • • • • • • • • • • • • • • •		
CO) andir		di din da
(ii)	Print Preview.	(02 marks)
*****	••••••	
) Expl		tware:
(i)	Speaker Notes.	(02 marks)
n must be		
n ult sa co		
(ii)	Slide Master.	(02 marks)
in or in the	led with seven computers to be networked. The factories you would need to set up the me	M. You are pury it the true beautiful true beautifu
11 been like	miles and one od we realistic some and local as a	urbor 1.2 M
 () Exp	ermed as a subboard on the Problem (big object, app	Zimetantia kanalia
	- 100 confidence of	(02 marks)
.0	in absorithm that will group: the bendiesether	engiased (n)
	one the sindenic number and less	(i)
) State exar	e the two main categories of computer softwar	e and give one
(i)	Category:	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
	Example:	
(ii)	Category: Example:	(02 marks)
	(ii) (ii) (ii) (iii)	processing: (i) Text Alignment. (ii) Print Preview. (i) Explain the following features in a presentation sof (i) Speaker Notes. (ii) Slide Master. (ii) Explain the term Computer Software. (b) State the two main categories of computer software example of each. (i) Category: Example: (ii) Category:

	(c)		ie the term Syntax as applied in programming.	(02 marks)
(2)				
	(d)		the difference between an interpreter and a compile	
)Privr.12s	
			splam the fellowing tentures in a presentation softw	
	U2 ma		SECTION C: (20 MARKS)	
Answ writte	er only en in th	one que ansv	question from this section. Answers to the question n wer booklet provided.	ust be
27.	Desci	ribe an	y five computer faults and suggest ways to overcom	
28.	You a layou	are pro	wided with seven computers to be networked. Desc any five devices you would need to set up the netwo	(20 marks) ribe the rk.
29.	Seka schoo	second	dary school has some students who are fees defaulte ges Shs500,000 as fees but the headteacher dismisse ose fees deposits are less than Shs300,000 and the resit for exams.	(20 marks) rs. The
	(a)	Desig	gn an algorithm that will prompt the headteacher to:	
		(i)	Enter the students' names and fees	
		(ii)	Determine the names of the students to be dismisse to sit for exams.	ed and those
		(iii)	Display Dismiss or Sit exams on the screen.	
	(d) (d2)mm	Using progr	g a programming language of your choice, write a si am code to implement the algorithm.	(10 marks) mple (10 marks)