CANDIDATE'S NAME:SIGNATURE:

840/1 COMPUTER STUDIES Paper 1 2½ hours



MATIGO MOCK EXAMINATIONS UGANDA CERTIFICATE OF EDUCATIONS 2022 COMPUTER SCIENCE 2022 PAPER 1

Time: 2½ hours

INSTRUCTIONS TO CANDIDATES

Write your name, signature in the space above.

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

Section **A** contains **20** compulsory objective-type of 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** essay questions. Answer only **one**. Answers to section **C** must be written in the answer booklet provided.

For examiner's use only

MCQ	Q21	Q22	Q23	Q24	Q25	Q26	Q27	Q28	Q29	TOTAL

1.	RAM is				
	A.	Permanent memory			
	B.	Programmable memory			
	C.	Read only memory			
	D.	Working memory			
2.	Sou	nd stored and produced by a computer is			
	A.	Animation			
	B.	Video			
	C.	Synchronization			
	D.	Audio			
3.	The	invention of thedefines the second generation.			
	A.	Magnetic core			
	B.	Transistor			
	C.	Relay			
	D.	Vacuum tubes			
4.	The	is an electrical path for data to flow from one point to another in a circu	it.		
	A.	System clock			
	B.	Buffer			
	C.	Bus			
	D.	ALU			
5.	Spre	adsheets are mainly used to perform			
	A.	Calculations			
	B.	What-else analysis			
	C.	Functions			
	D.	What-if analysis			

6.	The slide sorter command is associated withprogram.					
	A.	Word processing				
	B.	Spreadsheets				
	C.	Presentation				
	D.	Database				
7.	A un	ique field used to identify a record in a database is called a				
	A.	Field key				
	B.	Foreign key				
	C.	Primary key				
	D.	Record key				
8.	The	is an example of system software that uses command line interface.				
	A.	DOS				
	B.	Macintosh				
	C.	Windows				
	D.	Novell				
9.	Back	cup of the data files will help to prevent				
	A.	Loss of confidentiality				
	B.	Duplication of data				
	C.	Virus infection				
	D.	Loss of data				
10.		languages are low level language.				
	A.	Machine and assembly				
	B.	Assembly and third generation				
	C.	Third generation and fourth generation				
	D.	Fourth generation and fifth generation				

11.	Whic	Which one of the following is not a component of a computer system?						
	A.	Hardware						
	B.	Software						
	C.	End user						
	D.	Memory						
12.		interconnection of two or more computers to enable communication i	is called					
	A.	Protocols						
	B.	Processing						
	C.	Browsing						
	D.	Networking						
13.	Whi	ch printer uses a combination of laser-beam & electro photographic to	echniques?					
	A.	Laser printers						
	B.	Dot-Matrix						
	C.	Line printer						
	D.	Daisy wheel						
14.		The unit of a computer system that executes program, communicates with and often controls the operation of other subsystems of the computer is known as						
	A. CPU							
	B. Control Unit							
	C. I/0	O unit						
	D. Pe	eripheral unit						
15.	Bac	Backing storage is so named because it						
	A.is	A.is always kept at the back of the CP.U.						
	B. is slow and backward							
	C. backs up the computer's main memory Turn over							
	D. lags behind the main memory							

16.	What is meant by a dedicated computer?					
	A.	Which is used by one person only				
	B.	Which is assigned one and only one task				
	C.	Which uses on kind of software				
	D.	Which is meant for application software only				
17.	The t	two kinds of main Memory are				
	A.	Primary and secondary				
	B.	Random and sequential				
	C.	ROM and RAM				
	D.	All of the above				
18.	Which of the following holds data and processing instructions temporarily until the needs it?					
	A.	ROM				
	B.	control unit				
	C.	main memory				
	D.	coprocessor chips				
19.	A hi	gh speed device used in CPU for temporary storage during processing	g is called			
	A.	A register				
	B.	A bus				
	C.	A data bus				
	D.	All of the above				
20.	The f	First electronic digital computer contained?				
	A.	Electronic valves				
	B.	Vacuum tubes				
	C.	Transistors	Turn over			
	D.	Semiconductor memory				

SECTION B: (60 MARKS)

Answer all questions in this section.

All the working **must** be done in the spaces provided.

21.	(a)	Give any two ways of classifying computers.	(02 marks)
		(i)	•••••
		(ii)	
	(b)	Differentiate between the following terms	
	(~)	(i) Analog and digital computers	(02 marks)
		•••••	• • • • • • • • • • • • • • • • • • • •
			•••••
			•••••
		(ii) Main frame computers and micro-computers	(03 marks)
			• • • • • • • • • • • • • • • • • • • •
			••••••
	(c)	List any three types of micro-computers	
		(i)	• • • • • • • • • • • • • • • • • • • •
		(ii)	•••••
		(iii)	•••••
(22).		A senior four class in Nakitenga High School has formed a club. A	file named
		CLUBMATES is to be kept by the sectary of the club. The design	of the
		CLUBMATE has the following fields: NAME, MEMBERSHIP-	NUMBER,
		SEX. AGE and TELEPHONE.	

	(a)	Suggest the primary key for CLUBMATE . Explain why it is chosen as the					
		primary key.	(04 marks)				
	(b)	Suggest the appropriate data type for the following fields an	nd give the reason				
		(i) MEMBERSHIP-NUMBER	(02 marks)				
		Reason.					
		(ii) NAME	(02 marks)				
		Reason					
		(iii) TELEPHONE NUMBER	(02 marks)				
		Reason					
23.		Michael suspects his laptop to be carrying a computer virus	us because it has				
		reduced its functionality speed. He however chooses to con-	tinue using it without				
		servicing because it still functions anyway.					
	(a)	Define the term computer virus.	(02 marks)				
	(b)	Give three possible risks that Michael is exposed to.	(03 marks)				
		(i)					
		(ii)					

	(c)	List c	lown three types of computer virus `	(02 marks)
		(i)		
		(ii)		
		(iii)		
	(d)	As a	computer science student, explain any three safe comp	puter practices to
		guard	against computer viruses.	(02 marks)
		(i)		
		(ii)		
24.	(a)	In rel	ation to computer networking, explain the meaning of	the following terms
		(i)	LAN	(02 marks)
		(ii)	WAN	(02 marks)
				•••••
		Outlin	ne the three merits of networking computers	(03 marks)
		(i)		
		(ii)		
		(iii)		
		Outli	ne the three demerits of networking computers	(03 marks)
		(i)		
		(ii)		
		(iii)		

	25.	a)	A system unit is one of the main components found in a components	computer system.
		List a	ny four components that make up a system unit.	(04 marks)
		(i)		
		(ii)		
		(iii)		
		(iv)		
	(b)	Briefl	y explain the function of any three components you have g	given in (a)
	ab	ove.		
				(06 marks)
		(i)		
		(ii)		
		(iii)		
26.	(a)	State	any four functions of operating systems.	(04 marks)
		(i)		
		(ii)		
		(ii)		
		(ii)	••••••	
	(b)	List a	ny two types of operating system commonly used in compo	uters. (02 marks)

	(i)	•••••	
	(ii)		
(c)	(i)	What is a programming language?	(02 marks)
			Turn over
	•••••		
	•••••		
	(ii)	Differentiate between machine language and hig	gh level languages.
			(02 marks)
	•••••		
	•••••		

SECTION C: (20 MARKS)

Answer any one question from this section

Answers must be done in the answer booklet provided.

- 27. Describe the nature and the features of the four computer generations. (20 marks)
 28. (a) Describe any four ways in which computer crimes are committed. (08 marks)
 (b) Explain the ways of safeguarding against computer crimes. (12 marks)
- **29.** Explain the merits and demerits of using internet. (20 marks)

END