Name	Index No
School	Signature

840/1 COMPUTER STUDIES PAPER 1 July/August 2017 2¹/₂hours



WAKISSHA JOINT MOCK EXAMINATIONS

Uganda Certificate of Education COMPUTER STUDIES

Paper 1

2hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

- 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 for each question must be written in the box provided on the right hand side of each question.
- **Section B** consist of **six** <u>compulsory</u> structured questions. Answers to this section must be written in the spaces provided.
- **Section C** contains **three** essay questions. Attempt only **one**. Answers to this section must be written in the answer booklets/sheets provided.

For examiners' use only.

MCQ	Q.21	Q.22	Q.23	Q.24	Q.25	Q.26	Q.27	Q.28	Q.29	Total

SECTION A (20 MARKS)

Choose the most correct answer and write the corresponding letter in the box on the right hand side.

1.	A do	ocument with copyrighted materials is marked with:	
	A.	©	
	B.	eals	
	C.	€	
	D.	@	
2.	Whi	ich of these factors does not affect the internet speeds?	
	A.	Worldwide uses.	
	B.	Band width.	
	C.	Traffic.	
	D.	Type of transmission.	
3.	The	system clock,	
	A.	is a storage device.	
	B.	shows the time and date.	
	C.	determine data process speeds.	
	D.	turns off the computer after along live.	
4.		language is referred to as the first generation programming	
		guage:	
	A.	Assembly	
	B.	COBOL	
	C.	Machine code	
	D.	SQL	
5.	Whi	ich of the following is a file extension for an image file:	
	A.	.gif	
	B.	.dre	
	C.	.ppt	
	D.	.xls	
6.	A se	et of rules that govern exchange of data between hardware or software compo	nents in
	a ne	twork is called	
	A.	laws of communication.	
	B.	debugging.	
	C.	simplex transmission.	
	D.	protocols.	
7.	The	editing tool that enables the user to find words or phrases with similar meaning	ing
		nonyms) is	_
	A.	auto complete.	
	B.	thesaurus.	
	C.	auto correct.	
	D.	find and replace.	

8.	The following features existed in the mechanical era machines except:						
	A. moving parts.						
	B. mechanical gears.						
	C. punched cards.						
	D. vacuum tubes.						
9.	The term file compression means						
	A. reduction in the size of files.						
	B. increasing the size of the files.						
	C. maintaining the size of the files.						
	D. combining files.						
10.	The scientific milestone of using integrated circuits (IC) was a characteristic of	the					
	A. first generation.						
	B. second generation.						
	C. third generation.						
	D. fourth generation.						
11.	Which of the following is the standard storage capacity of a compact disk:						
	A. 100 KB.						
	B. 4.2 GB.						
	C. 700 MB.						
	D. 1.44MB.						
12.	The historical development of computers can be divided into two main ages namely:						
	A. Non-electronic and electronic computers.						
	B. Big size and small size computers.						
	C. First and second generation.						
	D. Analog and digital computers.						
13.	The weaving loom and analytical engine are considered the grand parents of m	odern					
	computing because they						
	A. had large physical size.						
	B. required human intervention.						
	C. could be programmed using punched cards.						
	D. have both invented by mathematicians.						
14.	A computer laboratory is a						
	A. special room where computers are stored.						
	B. special room where computers are set up for safe use.						
	C. room where computers are sold.						
	D. room where one can tap internet.						
15.	The best practice to avoid eye strain when using cathode ray tube monitor is to						
	A. mount an antiglare filter.						
	B. use a bigger monitor.						
	C. sit a distance away from the monitor.						
	D. reduce the light on the screen.	Turn Ove					

16.	_		tation software has many views, which one is the convenient way	of viewing
			the presentation?	
	A.		e sorter view.	
	B.		nal view.	
	C.		ine pane.	
	D.	Slide	e pane.	
17.	Whic	ch of th	ne following describes the purpose of the web page?	
	A.	Dow	rnloading files on the internet.	
	B.	Uplo	pading files on the internet.	
	C.	Mak	ing money on the internet.	
	D.	creat	ting awareness about something on the internet.	
18.	The o	data ca	ble of a computer is specified as 32-bit, this means it can transfer	
	A.	32 b	ytes at a time.	
	B.	4 bit	s at a time.	
	C.	8 ch	aracters at a time.	
	D.	4 cha	aracters at a time.	
19.	The a	areas o	f data storage on a diskette are made up of	
	A.	cylin	nders.	
	B.	FAT	S.	
	C.	secto	ors.	
	D.	gove	ernors.	
20.	The 1	main a	dvantage of a local area network is to	
	A.	enab	le the sharing of power source.	
	B.	help	in forming a link between users.	
	C.	enab	les sharing of resources such as printers.	
	D.		ease processor speed of the stand alone computers.	
			SECTION B (60 MARKS)	
	Answei	r all qu	nestions in this section. Answers should be written in the spaces pa	covided.
21.	(a)	Defi	ne the following as used in computer studies.	(02 marks)
21.	(u)	i)	Bit.	(02 marks)
		-)		
				• • • • • • • • • • • • • • • • • • • •
		ii)	Word length.	

	(b)	i)	Give two reasons why computers use binary codes	(02 marks)
		ii)	Differentiate between a Nibble and a byte	(02 marks)
	(c)	Conv	vert: -	
		i)	1110101_2 to decimal.	(02 marks)
		ii)	1001 ₁₀ to binary.	(02 marks)
22.	(a)	(i)	What is data integrity in relation to data processing.	(02 marks)
		(ii)	List down four parameters that measure data integrity.	(04 marks)
	(b)		ata processing there are various modes of processing data, state	
		cons	idered when choosing a specific mode of data processing.	(04 marks)
23.	(a)	Expl	ain the meaning of the following terms in relation to computer	programming.
		i)	Source program.	(03 marks)

	ii) iii)	ii)	An o	bject code.	
		iii)	A tra	nslator.	
	(b)	Give	two w	rays how interpreted program is different from compiled p	rogram. (04 marks)
	(c)	List	t hree s	tages of a program development.	(03 marks)
24.	(a)	(a) (i)	Expl	ain the function of the following in data communication. Bridge.	
			ii).	Gateway.	
	(b)	(i)	Nam	te three types of cables used in data communication.	(03 marks)
		(ii)	for d	e three advantages and two disadvantages of using fibre of ata communication.	
				antages;	(03 marks)

		Disadvantages	(02 marks)
25.	(a)	A hospital would like to use a relational database to keep track of its p	
		Give four different tables that may be included in this database.	(04 marks)
	(b)	List down three advantages that will result from using the database.	(03 marks)
	(a)	Mantion three challenges of using electronic database to keep track of	nationts?
	(c)	Mention three challenges of using electronic database to keep track of records in a hospital.	(03 marks)

26.	(a)	(i)	Define the term artificial intelligence as used in ICT.	(01 mark)
		(ii)	List four main application areas of artificial intelligence.	(04 marks)
	(b)	(i)	Mention three ways in which a computer can help a doctor of	_
			consultation with a patient.	(03 marks)
				•••••
				•••••
		(ii)	Give two advantages of using computers to monitor the heal	
		(ii).	of patients in a hospital instead of using nurses.	(02 marks)
				,
				•••••
			SECTION C (20 MARKS)	•••••
			Answer only one question from this section.	
27.	(a)	Defin	ne the term device driver.	(02 marks)
	(b)	How	does an operating system contribute to the performance of a co	omputer
		syste	m.	(18 marks)
28.	(a)	Defin	ne the following terms as used in spread sheets.	(04 marks)
		(i)	Label.	
		(ii) (iii)	Formula. Values.	
		(iv)	Function.	
	(b)	Expla	ain the advantages of electronic spreadsheet over the manual sp	oreadsheets
	()			(16 marks)
29.	(a)		words are very important to computer users in their operations.	1 1
		L1St (down four ways how passwords can be protected and safe guar	rded. (04 marks)
	(b)	Expla	ain the various methods used to protect computer data and syst	,
		and 1		(16marks)

END