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COMPUTER STUDIES
Paper 1
July. August 2023
2¹/₂ hours



ICT TEACHERS' ASSOCIATION OF UGANDA

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 \mathbb{C} contains three equally weighted practically-theory questions. Answer only **one** question. Answers to Section \mathbb{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.		ich one of the following is not a specification considered when buying value laptop computer?	g a					
	A.	Amount of RAM available						
	В.	Cost of the computer						
	C.	Hard disk capacity						
	D.	Battery life						
2.	The	e feature of word processing that allows a user to type continually with	nout					
_,		pressing the Enter Key at the end of each line is called?						
	A.	Drop cap						
	В.	Find and replace						
	C.	Word Wrap						
	D.	Mail merge						
3.	A b	attery powered device that provides enough power to the computer to						
	prev	vent unsaved work from being lost when there is a power failure is cal	lled?					
	A.	Surge protector						
	B.	Power stabilizer						
	C.	Solar panel						
	D.	Uninterruptible Power Supply						
4.	The	The loss/weakening of signal strength in networking cables or connections can						
	be r	referred to as						
	A.	Attenuation						
	B.	Demodulation						
	C.	Modulation						
	D.	Packet switching						
5.	Whi	ich one of the following is not an advantage of using presentation sof	tware					
	A.	Multimedia can be incorporated into the presentation slides						
	В.	The slides can be used to perform calculations						
	C.	The timing of slides can be set to run automatically						
	D.	Provides a variety of presentation formats and layouts.						
6.		arles Babbage the father of computers is popularly best known for inve	enting					
		?						
	A.	Analytical and Difference Engine						
	В.	Slide rule						
	C.	Jacquard's Loom						
	D.	Abacus						

A diagnostic process that a computer runs to determine if the hardward working properly when the computer is switched on is			
	A.		
	А. В.	Trouble shooting Power on self-test	
	C. D.	Loading of the operating system	
	D.	Debugging	_
8.	Whi	ch one of the following is true about impact printers?	
		(i) They are very noisy	
		(ii) Produce high quality graphics and very expensive	
		(iii) They use laser, spray of special ink or tonner powder	
		(iv) Physical contact between the paper and ink ribbon	
		(v) They tend to be slow	
		(vi) They do not print on transparencies	
	A.	(i), (ii) and (iii) only	
	B.	(ii), (iii) and (vi) only	
	C.	(i), (iv, (v) and (vi) only	
	D.	All of them are true about impact printers.	Ш
9.	The	following are data types of a database table except	
	A	A. Number	
	В	3. Date/Time	\neg
	C	C. Lookup Wizard	
	Γ	D. OLE Object	_
10.	The	keyboard button that enables a computer user to take a screenshot of the	
	curre	ent screen.	
	A.	Backspace button	
	В.	Escape button	
	C.	Windows button	
	D.	PrintScreen button	
11.	The	type of transmission mode that allows data to flow in both directions but	
	only	one way at a time is called?	
	A.	Half duplex mode	
	B.	Multiplex mode	٦
	C.	Full duplex mode	
	D.	Simplex mode	

12.	The	following are categories of utility software except?	
	A.	Anti-virus utility	
	B.	Web browsers	
	C.	Disk scanners	
	D.	Disk defragmenters	
13.	The	act of attempting to require sensitive information like user names,	
	pass	words and credit card details by disguising as a trusted source is call	led
	A.	Hacking	
	B.	Cracking	
	C.	Spamming	
	D.	Phishing	
14.	The	type of volatile memory that provides high speed data access to a pr	ocessor
		stores frequently used computer programs, applications and data.	
	A.	Cache Memory	
	В.	•	
	C.	·	
	D.	Flash Memory	
15.	A pı	rofessional who is responsible for the upkeep, configuration and relia	able
	-	rations of computers like servers in an organization.	
	A.	Database Administrator	
	В.	Systems Administrator	
	C.	Network administrator	
	D.	Web Designer	
16.	A st	ationery pointing device with a ball mechanism on its top that the us	er rolls
		rect and control the movement of the pointer on the screen.	
	A.	Trackball	
	В.	Joystick	
	C.	Digital pen	
	D.	Mouse	
17.	The	standard protocol for transferring file between computers and webse	ervers
		a network such as the internet	
	A.	Simple Mail Transfer Protocol	
	B.	Domain Name Transfer Protocol	
	C.	File Transfer Protocol	
	D.	Internet Protocol	

18.		ollection of several applications that are bundled together and sold or ributed as a single package.	
	A.	Systems software.	
	В.	Special software.	\neg
	C.	General purpose software.	
	D.	Software suite.	
19.	The	file extension for all web pages on the website should be	
	A.	.xls	
	B.	.doc	
	C.	.pub	
	D.	.html	
20.	_	rid of columns (indicated by letters) and rows (indicated by numbers) in ad sheet software is called	. a
	A.	Functions	
	B.	Labels	
	C.	Worksheet	
	D.	Workbook	
		SECTION B (60 MARKS) Answer all questions in this section	
		Answers must be written in the spaces provided	
21.	(a)	Explain the following categories of computers by function.	
		(i) Stand-alone computers. (02 ma	erks)
			•••
			•••
			••••
		(ii) Networked computers. (02 m	ıark
			•••
			•••

		(iii) Real time systems.	(02 marks)
	(b)	Identify two ways how viruses are spread on computers.	(02 marks)
		(i)	
		(ii)	
	(c)	Suggest two possible solutions to prevent the spread of viru identified in (b) above.	ises as (02 marks)
		(i)	
		(ii)	
22.	(a)	What is solid-state storage media?	(02 marks)
	••••		
	••••		
	(b)	Name two examples of solid state media.	(02 marks)
		(i)	
		(ii)	

	(c)	Give two reasons why a computer user would prefer to use so storage media over magnetic storage media.	olid-state (02 marks)
		(i)	
			• • • • • • • • • • • • • • • • • • • •
		(ii)	
			• • • • • • • • • • • • • • • • • • • •
	(d)	Distinguish between disk partioning and disk formatting .	(02 marks)
	••••		
	••••		
	••••		
	••••		
	••••		
	(e)	Give two benefits of partitioning a disk in a computer.	(02 marks)
		(i)	• • • • • • • • • • • • • • • • • • • •
		(ii)	
23.	(a)	What is a function in Microsoft Excel?	(01 mark)
	••••		
	••••		

(b) Read the following information carefully and answer the questions that follow.

C2	-	× -/	<i>f</i> _x =su(A2:B	2)
	Α	В	С	D
1	ltem 1	Item 2	Formula	Error
2	200	156	#NAME?	#NAME?
3	15345	0	#DIV/0!	#DIV/0!
4	234	#NAME?	#NAME?	#NAME?
5	1454	5220	#NULL!	#NULL!
6	185545	1255	#N/A	#N/A
7	sdss	125	#VALUE!	#VALUE!
8	203	52	#NUM!	#NUM!
9				

Explain the meaning following errors as commonly encountered when using Microsoft excel. (03 marks)

(i)	#NAME? Error	
(ii)	# DIV/0! Error	
 (iii)	# VALUE! Error	
(iv)	How would you rectify the error in cell D3 ?	(01 mark)

(c) Distin	guish between '	Text and Mo	emo as used	in databases.	(02 marks)			
			•••••					
•••••								
•••••	•••••		• • • • • • • • • • • • • • • • • • • •		•••••			
\ /				eted from Platinur				
				uestion that follow				
Emp.Number	Surname	Sex	District	Date Of Birth	Paid			
XS/001	Duwonge	Male	Wakiso	01-Mar-1962	125,000			
XS/002	Dayaga	Female	Kampala	05-Mar-1963	170,000			
XS/003	Muwanga	Female	Jinja	01-May-1977	132,000			
XS/004	Kibuuka	Male	Wakiso	05-Jul-1976	125,000			
XS/005	Nakintu	Female	Kampala	01-Nov-1976	120,000			
(i) 	How many reco	ords are sho	wn in the tal	ole above?	(01 mark)			
(ii) 	Which field wo	ould you cho	ose to act as	s your primary ke	y? (01 mark)			
(iii) 	Give one reaso	n to support	your answe	r in d (ii) above.	(01 mark)			

(a)	Distinguish between a hub and a switch .	(02 marks)
••••		
••••		
••••		
(b)	State three advantages of using wireless networks.	(03 marks)
	(i)	
	(ii)	
	(iii)	
(c)	Name one example of physical transmission media.	(01 mark)
(4)	Evaloir the magning of the following views as word with	
(d)	Explain the meaning of the following views as used with software.	web authoring
	(i) Normal view.	(01 mark)
••••		
	(ii) Code View.	(01 mark)

(e)	Ident	tify one example of a web authoring software.	(01mark)	
(a)	State	e two documents that be created by a word processor.		
	(i)			
	(ii)			
(b)	Give	e the function of the following features of a word proce	essor.	
	(i)	Spelling checker.	(01 mark)	
	(ii)	Grammar checker.	(01 mark)	
	(iii)	Thesaurus.	(01 mark)	
••••	• • • • • • • • •			
	• • • • • • • • • • • • • • • • • • • •			
(c)	What	is meant by hand outs as used in Microsoft PowerPoi	nt? (02 marks)	
••••	•••••			
	• • • • • • • • • • • • • • • • • • • •			
(d)	Give the function of the following features of presentation software.			
` /				

	(ii) S	peaker notes.	(01 mark)
	(iii) P	laceholders.	(01 mark)
(a)	What is	meant by operating system software?	(02 marks)
 (b)	Outline	any four functions of operating system softy	
	(*)		(04 marks)
	(ii)		
	(iii)		
	(iv)		
	•••••		

	(d)	State two advantages of Off-shelf software.	(02 marks)				
		(i)					
			• • • • • • • • • • • • • • • • • • • •				
		(ii)					
	SECTION C (20 MARKS)						
	Answer only one question in this section						
		Answers to the question must be written in the answer booklet	provided				
27.	(a)	Explain any four types of computer networks.	(10 marks)				
	(b)	Describe any five benefits of networking computers.	(10 marks)				
28.	Describe any five computer error messages and possible solutions. (20)						
29.	(a)	Explain any five emerging technologies as of today.	(10 marks)				
	(b) Discuss five negative implications of the emerging technologies						
		identified in 29 (a) above.	(10 marks)				