Candidate's Name IR'S WIDE	,
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840/1 COMPUTER STUDIES Paper 1 July. August 2023 2<sup>1</sup>/<sub>2</sub> 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 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

L	W	hich one of the following is <b>not</b> a specification considered when buying
		w laptop computer?
	A.	
	B.	Cost of the computer
	C.	Hard disk capacity
	D	Battery life
2.	Th	e feature of word processing that allows a user to type continually without
	pre	ssing the Enter Key at the end of each line is called?
	A.	Drop cap
	B.	Find and replace
	C.	Word Wrap
	D.	Mail merge
3.	Αt	pattery powered device that provides enough power to the computer to
	pre	vent unsaved work from being lost when there is a power failure is called?
	A.	Surge protector
	В.	Power stabilizer
	C.	Solar panel
	D.	Uninterruptible Power Supply
4.	The	loss/weakening of signal strength in networking cables or connections can
		referred to as
	A.	Attenuation
	В.	Demodulation
	C.	Modulation
	D.	Packet switching
5.	Whi	ch one of the following is not an advantage of using presentation software
	Α.	Multimedia can be incorporated into the presentation slides
	$\mathbf{B}$ .	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.
	Char	les Babbage the father of computers is popularly best known for inventing
		?
	Α.	Analytical and Difference Engine
	B.	Slide rule
	C.	Jacquard's Loom
		ATHERD

7.	A dia	gnostic process that	
	work	gnostic process that a computer runs to determine if the hardwar	e is
	Α.	which the computer is switched on is	
	B.	Trouble shooting	
		Power on self-test	
	C.	Loading of the operating system	A
	D.	Debugging	A
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 powders	
		(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 *	
	В.	(ii), (iii) and (vi) only x	
	C.	(i), (iv, (v) and (vi) only >	C
	D.	All of them are true about impact printers.	
9.	Th	ne following are data types of a database table except	
		A. Number	
		B. Date/Time	
		C. Lookup Wizard	C
		D. OLE Object	
1	0. T	he keyboard button that enables a computer user to take a screensh	ot of the
		irrent screen.	
	A	•	
	В		+
	C		D
	D	. Printscreen button	
1		he type of transmission mode that allows data to flow in both direc-	tions but
		nly one way at a time is called?	
		* Half duplex mode	N. K.
	В	the state of the s	
		Full duplex mode	C
	L	). Simplex mode	

)	12.	The feet
		The following are categories of utility software except?  A. Ami-virus utility  B. Web I.
		Ami-virus utility  B
		CD OFOR Street
		Disk scanne
		D. Disk defe
1	3.	D. Disk defragmenters
		The act of attempting to require sensitive information like user names.  A. Hacking
	)	passwords and creditive information in
	-	A. Hacking Gredit card details by discoursing the user names.
	J	Passwords and credit card details by disguising as a trusted source is called  Cracking  Cracking
	(	Sname
	I	Spamming Phishing
14		he type of volatile memory that provides high speed data access to a processor  Cache Memory  Cache Memory
	30	nd stores framework that provides high
	A	nd stores frequently used computer programs, applications and data.  Cache Memory  Read Only Memory
	B	Read Co., Remory
	C	Read Only Memory
	D	Random Access Memory
		Memory
15.		professional who
	op	professional who is responsible for the upkeep, configuration and reliable crations of computers like servers in an organization.
	A.	Database Additional State of the Servers in an organization and reliable
	B	- CARLILLIA FOLIA
	C.	Systems Administrator
	D.	Network administrator
		Web Designer
16.	A s	tationery pointing devices with
	to c	direct and control the movement of the pointer on the screen.  Trackball
	A.	Trackball
	B	Joystick
	C	Digital pen
	D.	Mouse
17.	The	standard protocol for transferring file between computers and webservers
	over	a network such as the internet
	Α.	Simple Mail Transfer Protocol
	B	Domain Name Transfer Protocol
	C.	File Transfer Protocol
	D.	Internet Protocol

		handled together and sold or
18.	A co	llection of several applications that are bundled together and sold or
	distri	buted as a single package.
	A	Systems software
	B	Special software.
	C.	General purpose software.
	D.	Software suite.
19.	The	file extension for all web pages on the website should be
	A.	.xls
	В.	doc
	C.	.pub
	D.	.html
		and rows (indicated by numbers) in a
20.	A gr	id of columns (indicated by letters ) and rows (indicated by numbers) in a
	spre	ad sheet software is called
	A.	Functions
	В.	Labels
	C.	Worksheet
	D.	Workbook
		SECTION B (60 MARKS)
		Answer all questions in this section
		Answers must be written in the spaces provided
		Albucis
		in af computers by function.
21.	(a)	Explain the following categories of computers by function.
		(i) Stand-alone computers. (02 marks)
		Is a computer that is used on to un without
		13 G Computs
		requiring internet consistivity
		Networked computers (02 mark
		(II) Networked computers.
		Refers to two a more computers that are
		networked together to shore resources
		suches data Programs

		(02 marks)
		IS . System the for real time com- to as
		The comment of the control of the co
		defraced time constraints
	(b)	Identify two ways by
		Identify two ways how viruses are spread on computers. (02 marks)
		(1)
		101 013/
		(ii) - Visiting malicious websites
		- tagetting to perform anti-Mais scens
	(-)	Just the Court of the Secont
	(c)	identified in (b) above
		(1) Installing anti-vines Softward
		J. W. Z. Sollyon
		(ii) - Perhaming anti-vines scans
		July Jean !
22.	(2)	
	(a)	
		13 GTIOP OF Company
	h	m Silven chies and stones date elebraterly instead of
	masy	ne h call j
	(b)	Name two examples of solid state media. (02 marks)
		(i) Smare (sec
		(ii) USB flash drive
		Memory C. I
		Memory Care

	storage media over magnetic storage media. (02 marks)
	(i) Francis (Carlot Works and Carlot)
	(i) taste read white speeds so De Charles large files,
	(ii) Pour Consumption
	- Quick boot times and better performance
	(d) Distinguish between disk partioning and disk formatting. (02 marks)
	- LALL MERCHANDER CLESS TO STUDIOS GLINGUE of advice
	into two or more where's and defining how much space
0	can be allorated to a patienter vit of space within the drug
while	dak formalling reses to preparation of active for
	witholuse bence stating its ble System
	(e) Give two benefits of partitioning a disk in a computer. (02 marks)  (i) Reduces threat of data lines.
	- More convenient to databackup and restire.
	(11) Runs different De on One Pc
	risk Daluable files tomamine Compan
2	3. (a) What is a function in Microsoft Excel? (01 mark)
	A hunchon is an introll formate a fre defined
	Frankla that is inbuilt in the Computer and
	persons Calculations by using specific values
	gravment

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

Q		X	£ =su(A21	B2)
	A	B	C	D
1	200	156	#NAME?	#NAME?
	15345	0	MDIV/01	#DIV/0!
盟	234	#NAME?	MNAME?	#NAME?
9	1454	5220	MNULLI	#NULL!
0	185545	1255	MN/A	#N/A
	sdss	125	#VALUE!	MVALUE
	203	52	WNUMI	#NUM!

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

(i)

(i) #NAME? Error
This error occurs when the text in a famuly is
not recognized by excel . caused by misspelling.
(ii) # DIV/0! Error
This occurs when a number is divided either by
Zero(o) a an empty cell
(iii) #VALUE! Error
This con occurs when the formula includes cells
that contain different data your
(iv) How would you rectify the error in cell D3? (01 mark)
By Changing the divider to avalue that is
not equal to 0

(c)	Distinguish between Text and Memo as used in databases. (02 marks)
*****	it it is a field by relatively short entires because of
	Cannot hold marthan 255 charters
White	Ameno is a field which can holds long cherocks
*****	of about 65,535 characters

(d) The table below shows a database table extracted from Platinum Investment Limited. Read it and answer the question that follows.

Emp.Number	Surname	Sex	District	Date Of Birth	Paid
KS/001	Duwonge	Male	Wakiso	01-Mar-1962	125,000
KS/002	Dayaga	Female	Kampala	05-Mar-1963	170,000
KS/003	Muwanga	Female	Jinja	01-May-1977	132,000
KS/004	Kibuuka	Male	Wakiso	05-Jul-1976	125,000
KS/005	Nakintu	Female	Kampala	01-Nov-1976	120,000

(i) 	How many records are shown in the table above?	(01 mark)
(ii)	Which field would you choose to act as your primary	key?
	Emp Numbs	(01
	Because each held has for	
	sees a Unique vow for each pe	EUM.

24.	(a) Distinguish between 1
	(a) Distinguish between a hub and a switch. (02 marks)
	Combines a control connection point by all
	A Suntil
	The state of the s
	Path or Circle Co
	deshiber to sending a wait of date to its next
	(b) State three advantages of using wireless networks.  (i)They Cover long distenses ! (03 marks)
	(i) They Cover long distances flage geographical on Provide high spead Communication Haranery
	Provide high speed
	(ii)
	No need to install Cables
	(iii) Lats of date Can be sent Simultarously
	The same of the sa
	(c) Name one example of -business
	one example of physical transmission media
	(d) Explain the meaning of the following in the peaks Budge, spready
	(d) Explain the meaning of the following views as used with web authoring software.
	(i) Normal view
	This is the default were and of a commark)
	This is the default view which wablank screen a which
	for type paste a ment content
	(ii) Code View. (01 mark)
	This allows the Computer user to yiew and work
	directly with HIMb code regred by you by neb
	directly with HIML code created by you by web
	(iii) Split View (01 mark)
	This is where both the Namal xiewand Code view
	are displayed Simulteneously in separate windows

	(e)	Identi	ify one ex	ample of	web author	ring software		(01mark)	
	(0)	NIC	to Por	1 Wo	deress.	Microsoft	Web G.P	(02 marks)	
25.	(a)	State	two docu	ments that	be created	by a word pro	cessor	(02	
		(7)	10	Hers.	Memo	3	ochers		
		(ii)	R	pats,	Certif	icars	a lende	· · · · · · · · · · · · · · · · · · ·	
	(b)					eatures of a w			
	(0)	0						(01 mark)	
		(i) T		g checker.	a user	to che	ck the	spelling of	
		1	de d	ocume	at at	coe time	. 10 TH		
	Ω	. 90.10						(01 mark)	
		(ii)	Grami	nar check	er.				
		T	h.s	eport	s gran	mabica.	RIIV.	s.coolsuggests	
		100	33.	to con	est th				
								(01 mark)	
		(iii)	Thesa	rus.		1 teno hi	e ward	Is with the	
			his	3 m33	.5.12	VVVVIII			
		5	Bame.	mes	ring				
	(c)	Wh	at is mean	t by hand	outs as used	l in Microsoft	PowerPou	nt? (02 marks)	
	(0)	11	is o	printe	of make	ist for	cones	auchience That	
		Car	nalsta.	of h	wo - S	+ slide	inede	S. Printed on e sin	de
	(4)		20			features of pro			
	(d)				· · · · · · · · · · · · · · · · · · ·			(01 mark)	
		(i)	Action	buttons.			deal	pointed to	
		4	Jer hx.	man	Ortp. 10.	When.	nessea.	y Pointed to	
			Such	s.s. ju	mping	o another	y slide	in blanking a	
			3000	C	11				

elle.
(ii) Speaker notes.
Ac notes added to a Prese Power Power Per
CS S IC COOPE C
as a release in the presente.
(iii) Placeholders
(01 mark)
What is meant by operation
26. (a) What is meant by operating system software? (02 marks)
The state of the s
This is meant by operating system software? (02 marks)  days of sometimes of sometimes
- Comput
any four functions of operating system as
(i) File management (04 marks)
Management (04 marks)
the state of the same
Books Processing tests
Books management
(iii) Secrety management
Jene movedens 1
(iv) Provide Use lote Co
(iv) Provide Les hterace
· · · · · · · · · · · · · · · · · · ·
(c) Define the transfer
(c) Define the term Off-shelf software applications.
(Va marks)
meet the needs of awide wanty of endura
Den has 1a University
12

	(d)	State two advantages of Off-shelf software.	(02 marks)			
		(i) It is cheap interns a purch	986			
		They are use friendly				
		(ii) There is no need to extra be	Crains of Burners			
		092				
		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)			
ZI.	(b)	Describe any five benefits of networking computers.	(10 marks)			
28.		cribe any five computer error messages and possible solutions.	(20 marks)			
29.	(a)	Explain any five emerging technologies as of today.	(10 marks)			
	(b)	Discuss five negative implications of the emerging technolog	gies			
	, ,	identified in 29 (a) above.	(10 marks)			