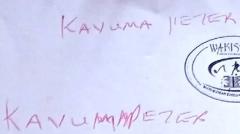
## WAKISSHA JOINT MOCK EXAMINATIONS MARKING GUIDE Uganda Advanced Certificate of Education Computer Sub S850/1

July/August 2023



Define the term Computer (a) (01 mark) A computer is an electronic device that accepts user data and processes it under given instructions to give meaningful output. (Information)

(b) Outline any four characteristics of a modern computer.

(04 marks)

High storage capacity

Multi-tasking Let Sate

Speed

- Artificial intelligence
- Automation
- Portability
- Diligence

Accoracy

Any 4 X 1 mark = 4marks

The use of computers has had an effect on the health of students in the schools. 2.

Describe two health issues caused by the prolonged use of computers. (2 marks)

- Eye strain
- Back pain
- Headache
- Repetitive strain injury
- Neck pain
- Wrist pain
- Fatigue

Any  $2 \times 1$  mark = 2 marks

For every issue named above give the method that can be used to prevent it. (b)

(02 marks)

use of antiglare screens (i) Eye strain

- Regular breaks (ii)
- Enough lighting in the room (iii)

Back pain, Neck pain, wrist pain, Headache and fatigue:

- Regular breaks i)
- ii)
- Use of ergonomically designed chairs [ key burds iii)

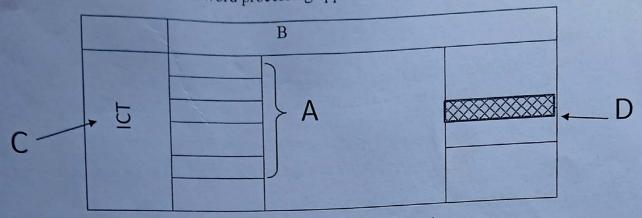
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**CS** CamScanner

	iv) Enough lighting in the room to reduce on headache v) vi) vii) viii) Note: The method preventing should be matched to the named health issue in 2(a) above.	
(c)	Explain the meaning of the term ergonomics. (1 mark) This is the branch of science or art of designing a work place that provides comfort, safety and efficiency at the work place.	
3. (a)	Explain the meaning of the term file extension. (01 mark)  This refers to a suffix to the name of a file applied to indicate the file format.	
(b)	Write true or false on the following (04 marks)	
	i) Data and information is stored in form of files in the computer. True ii) .txt is a file extension of a file saved in a notepad. True iii) Kakoko.docx is a file extension for word pad. False. iv) The file type for wakissha.bmp is MS paint file. True	
a) ]	Define the term folder  A folder is a storage location for files and sub-folders.  (1 mark)	
b) (	Outline the procedures he would go through to transfer his work on to a flash disk.	
	i) Right click on the folder (4 marks)	
	ii) From the short cut menu point on send.	
	iii) From the sub menu point the flash disk drive iv) Click	
i) ii) - Drsple (iii) iv)	is the importance of each of the following items in a computer laboratory  Air blower – For removing dust (blow out) dust from hardware components  Air conditioner – To regulate temperature  In the  Computer Laboratory  Reducing accumulation of dust  Anti-virus CD – For installation of anti-virus software  Uninterruptible power supply – Protects devices from power fluctuation  The provides requires in an event of	3
Bick Pv)	Anti-glare screen – Regulates excess light from monitors especially CRT monitors  - It prevents eye strain.  5 X 1 mark @ = 5 marks	
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(a) Define word processing pact | tak | way (1 mark)
Word processing is the art of creating, saving, editing, formatting and printing text documents

(b) A student used a word processing application software to draw the table



below: Identify the following formatting features used in the table.

- A. Splitting cells
- B. Merging cells / Take / Colomn
- C. Text direction
- D. Shading

6.

4 X 1 mark @ = 4 marks

7. (a) Define the term Computer hardware Computer hardware refers to tangible and physical components of a computer.

(b) Briefly explain her each of the following system devices contributes to te general operations of the computer system.

i) Hard disk drive - Data storage / the Storage /
- Houses the operating system / booking device

- ii) Power supply unit Converts AC to DC

   Distributes power to all components

   Changes power ratings
  - Changes power raungs

RAM chips – Necessary during the booting process

Temporary storage of data

Provides a platform for loading application software

iv) Processor - For data processing | data manifold of a computer

Note: any one point x 1 mark = 4 marks



- State three advantages of hard disk in data storage. 8. a)
  - Stores more information
  - Reads information faster
  - Exposed to less risks its fixed and internal
  - Cheaper in terms bytes any  $3 \times 1 \text{ mark} = 3 \text{ marks}$
  - Explain the following terms in relation to data storage b)
    - Access time Time it takes storage device to locate data on a storage media.
    - (1 mark) Storage capacity: ii) (1 mark) The amount of data a storage medium can hold at a given time. (1 mark)
- 9. What is CPU in full (a) (1 mark) Central Processing Unit
  - (b) Explain the following machine cycle Processes
    - Fetching Collecting instruction from memory i)
    - ii) Decoding - Interpreting of instruction
    - iii) Execution – Carrying out the instruction
    - iv) Storing – writing results back to memory

 $4 \times 1 \text{ mark} = 4 \text{ marks}$ 

NB: Reject if the learner mention data.

10. (a) (2 marks) Name any two types of system software used in a computer.

Operating system

- Utility software / System utilities
- **Programming Languages**

Any  $2 \times 1$  mark = 2 marks

(b) Differentiate between shareware and freeware software Shareware is a copyrighted software provided to the user for a trial period at no cost

While

Freeware is copyrighted software provided to the user at no cost without limitations on use.

Note: a learner should use a conjunction. ii) The word copyrighted should appear

My one carried (2 marks)

- Name one application software suit that is commonly used in offices.

   Microsoft acc (c)
  - Microsoft office suite

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1. Tick true or false		
1. Tick true or false next to each of the statement	TED LIE	FASLE
	TRUE	
a) Database software is used to design		True
presentations of slides  b) Microsoft of slides		V
b) Microsoft office publisher in an example of DTP	m /	
DTP publisher in an example of	True	
c) E-mail software is used in creating an formatting text in d		False
	/	
editing software.	True	
e) A head teacher preparing a school report to		D.1.
be presented at a parents meeting must use		False
12. a) i) Differentiate between command line	are or false	•
12. a) i) Differentiate between command line	e interface (CLI) and	Graphical user
Interface (GUI)	c micraec (322)	
Command the state of CVIII) investigation	dues use of images a	nd icons to
Command line interface (GUI) invo	or the state of integer	smands
represent data and instruction.	e CLI OF	(2 marks)
(iil-MDos -linux		
- MFLC 05 - 052		
b) Explain the advantages of Graphical User	Interface over comm	and line intertace.
		(3 marks)
- User friendly		
- Can support multi-tasking		
- Can process complex graphics		
- No need to cram commands	Any 3	X 1 mark = 3 marks
	Any 5 2	XI mark 5 marks
13. a) Study the function structure below and ans	swer the questions the	at follow:
= 1F (D2 < 60, "NO)	(CASH", 6000)	
i) What is the importance of beginning	ig with an equal sign	while using the
function?		
To return manipulated data		
TO THE STATE OF TH	I [@ WAKIESHAI).	o traus
ii) The formula = IMSUM ([@ AUG]	ion used in this form	da de la
complex numbers.	3 the No Te	cus (but Content
ii) The formula = IMSUM ([@ AUG] complex numbers. Write the function: IMSUM	or great then	so, (I mark)
Solution.		
b) State the category into which the function	on in 13a) (ii) above fa	all
b) State the category in Solution: Logical function		
a used in Microsoft e	xcel	
State two data types used in Microsoft e		(2 marks)
- Text		38
- Number		12
- Currency - Date and time		
- Date and the - Graphs		
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- Boolean
- Error Formula
- Hyperlink
- Object

Any  $2 \times 1$  mark = 2 marks

14. Differentiate between a webpage and website. a) A webpage is an electronic document on a website.

(2 marks)

While

A website is a collection of hyperlinked webpages

Given the following e-mail address: My dex - Wiethand b)

i) anfo – it is the user name

@ Seperator

Consty kevel donain.

ii) gmail.com – Domain name

- Give one example of a web browser that can be used to read emails and send to the c)\_ above address.
  - Mozilla Firefox
  - Opera mini
  - Internet explorer

03

- Microsoft edge
- Google chrome

Any  $1 \times 1$  mark = 1 mark

- 15. A company has decided to introduce an intranet and remove internet for its staff.
  - Give two reasons why the company will not allow its staff internet access. a)

(2 marks)

- Hacking
- Virus spread
- Ponograph
- Wastage of man working hours

Time wastage

Reduces on production

Any 2 x 1 mark= 2 marks

- b) List down three advantages the company will enjoy for using intranet (3 marks)
  - Secrecy confidentiality.
  - Limited access
  - Easy communication
  - Easy sharing of data
  - Reduces on administrative costs
  - Reduces time wastage

Any 3 x 1 mark = 3marks

Given the following URL; 16. a) http://www.BBC.com/magazine/society.pdf Write the following in full

URL: Uniform Resource Locator i)

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http: Hypertext transfer protocol WWW: World wide web Pdf: Portable document format b) Identify the top level domain in this URL (1 mark) Note: Reject without a (.) dot 17. Define the term computer communication? (a) (1 mark) This is the electronic transfer of data from one point to another. (b) Mention any two components of a good data communication system.

Sender Receiver Message Communication channel Protocol c) Distinguish between simplex and duplex transmission made? (2 marks) Simplex is the transfer of data in only one direction while duplex is the transfer of data in both directions. 18. Identify the communication signals (a) i) Analog ii) **Digital** 

(1 mark)

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Note: Pick the two graphs from the internet.

Explain the importance of the following in data transmission Start bit - Marks the beginning of the encoding process i) Parity bit - Checks for errors during transmission ii) Stop bit - marks the end of the encoding process iii)  $3 \times 1 \text{ mark} @ = 3 \text{ marks}$ Explain the following terms as applied In data security. Confidentiality: this means sensitive information belonging to an organization should not be accessed by or disclosed to authorize people. ii) Access control This specifies and controls who can access what. Distinguish between unauthorized access and unauthorized use. (2 marks) Unauthorized access refers to the use of a computer or network without permission While Unauthorized use refers to the use of computers or its data for illegal activities. (2 marks) Give one way of preventing computer crimes Use of CCTV cameras for surveillance. Encryption of data Activating firewalls on the network gateways. Backing up of data Use of strong passwords and user names. Burglar proofing to prevent unauthorized access Installation of updated anti-virus software. What are emerging technologies? These are technological innovations that are currently developing or are becoming common with a potential to transform a society. State the role of the following in the computer environment

i) Computer technician – Repairs and maintains computers

ii) Detabase A la computers ii) Database Administrator- Managing data base - creates (Sacray) of detabase

Use special software for store data.

iii) Web developer Design and creates websites. - mountains wesself

19.

(a)

(b)

(c)

(a)

(b)

20.

 $3 \times 1 \text{ mark} = 3 \text{ marks}$