## WARISSHA JOINT MOCK EXAMINATIONS MARKING GUIDE Uganda Advanced Certificate of Education ICT Sub S850/1 July/August 2024



It is a series of activities a computer goes through to transform data into information. 1. (a)

- (b) - Input stage
  - Processing stage
  - Storage stage
  - Output stage

4 marks

- ICT can be used to improve teaching and learning in the following ways. (a)
  - Student research
  - Study online
  - Lesson presentation
  - Sharing learning resources
  - Production of academic documents like report cards, transcripts and certificates.

Any  $2 \times 1 = 2$  marks

- (b) Advantages of using ICT in business.
  - Storage of large volumes of data for future use.
  - Generation of error free results.
  - Process large amounts of data.
  - Large number of tasks can be processed at a high speed.
  - Data can easily be secured through use of passwords and other security mechanisms.
  - Eases communication.
  - Eases online banking.

Any  $2 \times 1 = 2$  marks

- Challenges of using ICT at home. (c)
  - Exposure to pornographic pictures.
  - No concentration on academic work.
  - Technological illiteracy.
  - Digital distraction
  - Time wastage
  - Health related issues
  - Expensive to maintain.
  - Irregular power supply
  - High internet costs
  - Insufficient power supply
  - Time wastage
  - Health related issues
  - Expensive to maintain.

Any  $2 \times 1 = 2$  marks

A computer Laboratory is a special room set up for teaching and learning of computer (a) practical skills.



CamScanner CamScanner

Use of a blower. (b) It is used to remove dust from the computer system and other hardware components

1 mark

It is used to put off fire in case of any fire outbreak.

1 mark

- Measures employed to ensure safety of computer users. (c)
  - Use of anti glare screen to reduce eye strain.
  - Installation of fire extinguishers.

(ii) Use of a fire extinguisher

- Use of ergonomic chairs to provide the comfort and avoid back pain.
- Installation of lightening conductors.
- Insulate power cables and lay them away from pathways.

2 marks

- Files can be managed through 4. (a)
  - Use of clear naming conventions (i)
  - (ii) Use of folders for easy location of files quickly.
  - (iii) Use of network devices
  - (iv) Cloud storage platforms store and manage in a single location / Backup

any  $3 \times 1 = 3$  marks

- Benefits of computer file management. (b)
  - Easier to locate and access specific documents.
  - Easy file retrieval.
  - Data protection by enabling users to create backups.
  - File management supports collaboration by providing shared access to files and folders.
  - Space optimization
  - Accessibility: easy to access from any device with internet access.
  - Security of files.

Any  $2 \times 1 = 2 \text{ marks}$ 

- 5. Steps taken when saving a presentation file when the presentation file is open.
  - Click on the office button or file tab.
  - Select "Save as" (b)
  - From the dialogue box, enter/ type the file name as "WAKISSHA"
  - Then select the location as desktop, then select the folder or click on new folder to create it.
  - Then select open and finally click on "save" (e)

@ step 1 mark = 5 marks

(i) Storage Medium is a physical material on which a computer keeps data. 6. (a)

(ii) Reading is the process in which a storage device transfers data from a storage medium into memory.

Reading is the process of accessing and retrieving data from a storage medium.

(b)

RAM ROM

Non - volatile Volatile Read and write Read only Permanent Temporary

Cannot be increased Can be increased

Note: use of a conjunction to differentiate is a must. © WAKISSHA Joint Mock Examinations 2024

Any  $2 \times 1 = 2 \text{ marks}$ Page 2 of 6



Examples of magnetic storage media - Hard disk - Magnetic tapes Floppy disks - Zip disks  $Any 1 \times 1 mark = 1 mark$ (i) False (ii) False (iii) True (iv) False (v) False Components / Path of the mother board (a) - Ports - Memory slots - Processor slot Expansion slots - Capacitors - Transformer - Data lines CMOS Battery slot **Bios** Bridges Any  $2 \times 1 = 2 \text{ marks}$ Role of a mother board - Hardware integration (b) - Data communication - Power distribution - Initialises hardware components during the boot-up process (BIOS - Basic Input/Output System) - Provides expansion slots. Any  $3 \times 1 = 3 \text{ marks}$ System software is a set of programs that control and coordinate all resources (a) of a computer. Branches of system software 1(b) - Operating system - Utility software - Programming languages Any  $2 \times 1 = 2 \text{ marks}$ Standardised software refers to software designed to perform a variety of tasks to (c) the user. While In housed software is the software designed on user request to perform a specific function. Signs of a failed operating system. 2 marks (a) - Computer failing to boot completely - Computer restarting often © WAKISSHA Joint Mock Examinations 2024 Page 3 of 6

7.

8.

9.

10.

- Displaying of error messages
- Slow in performance
- Corrupted files.
- Inability to update.
- Failure to recognize hardware devices
- Poor network connectivity.

Any 3 x 1 mark = 3 marks

- Factors to consider while choosing a good software. (b)
  - User friendliness
  - Error free
  - Easier to install
  - System specifications
  - Available documentation
  - Purpose of the software
  - Compatibility with other software.

Any  $2 \times 1 = 2$  marks

## 11. Task

- (i) Produce text documents
- Presentation software e.g. Power point (ii)
- (iii) Accessing the internet
- Photo editing (iv)
- Spreadsheets e.g. Ms. Excel (v)

 $1 \times 1$  each = (05 marks)

12.

- Internet access
- Web hosting
- Data backup
- Software provision
- Domain name registration
- Providing customer E-mail address.
- Technical support
- Network monitoring

Any  $5 \times 1 = 05 \text{ marks}$ 

13.

- Open your email account
- Click on the compose button to typset the message.
- Click on the attachment button.
- In the attach dialogue box, select the file to attach.
- Click the attach or done button to attach file.

Any  $5 \times 1 = 05 \text{ marks}$ 

Video conferencing is service of the internet that enables the transfer of 14. (a) information in form of text, audio, video between people in different locations.  $1 \times 1 = 01 \text{ mark}$ 

(b)

- Microphone for Audio input
- Video camera for images
- Speakers for audio output
- Internet connectors.
- Computer set/smart phone
- Software e.g. Skype

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Link between device or more devices to enable sharing of resources and allow communications.

1 x = 0.0 mark

(b)

- Peer to peer
- Server
- Client server

(c)

 $2 \times 1 = 02 \text{ marks}$ 

- Helps in research
- Sharing of heavy materials
- Easy communications
- Storage of information
- Easy sharing of limited resources
- Enables online learning

 $2 \times 1 = 02 \text{ marks}$ 

 (a) Guided Transmission Media involves the transmission of signals through a physical medium or restricted paths i.e. Cables

02 marks

While

Unguided involves transmitting of signals through space without cables.

(b) Twisted pair cables

 $1 \times 1 = 01 \text{ mark}$ 

(c) Modulation involves converting data signals from analog to digital form.

While

Demodulation involves converting the digital signals to analog.

With a conjunction score (02 marks)
Without conjunction don't score

17. (a)

(i) Digital divide is the gap that exists between those who have access to ICT and those without access to ICT.

1 mark

(ii) Digital migration involves moving from use of analog systems to digital systems.

1 mark

(b)

- Copyright
- Patent rights
- Trade mark
- Trade secrets

Any  $2 \times 1$  mark = 02 marks

(c) Computer ethics are the moral guidelines that govern individuals on the use of computers and information systems.

1 mark

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18. (a) (i) Violation of intellectual property rights Undermines I.T code of conduct. - Eludes one's integrity Lack of technical support 1 mark (ii) Loss of income for the software industry and the developer. Loss of sales revenue to the software industry. 1 mark (iii) Copyright infringement Criminal liability Reputational damage 1 mark (b) Ensure use of licensed software Complying with the copyright laws and licensing agreement Putting in place legal frameworks. Anti-piracy education and awareness Digital rights management. Online piracy monitoring Access to affordable alternatives. Setting installation passwords or codes to prevent installation of illegal software. Any  $2 \times 1 = 2 \text{ marks}$ 19. 4 records 1 mark (a) 1 mark (b) Book number 1 mark (i) Text (c) (ii) Currency 1 mark (d) Microsoft access database - Oracle - Db V Mysql Any  $1 \times 1 = 1 \text{ mark}$ Electronic publishing is digital publications of electronic documents / articles 20. (a) books or development of digital libraries. Any  $2 \times 1 = 2 \text{ marks}$ - E books (b) - E magazines - E Bibles - Cyber software technologies. Any  $3 \times 1 \text{ mark} = 3 \text{ marks}$ 

END