



## PROPOSED MARKING GUIDE

JJEB - UACE SUB ICT 2019

### JINJA JOINT EXAMINATIONS BOARD MOCK EXAMINATIONS 2019 S850/1 SUB ICT MARKING GUIDE

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1. (a). State **two** activities carried out during the data input stage during data processing. (02 marks)
  - Data collection.
  - Data sorting / grading.
  - Data entry.
  - Data verification.
- (b). Write **ICT** in full. (01 mark)
  - Information <sup>s</sup> communication ~~and~~ technology.
- (c). Give **two** system specifications you would consider before buying a computer. (02 marks)
  - Processor speed.
  - Size of hard disk.
  - Amount of RAM.
  - Screen resolution.
  - Screen size.
  - Amount of power consumption.
  - Pre-installed operating systems.
  - Processor type / Brand
2. (a). Distinguish between **servicing** and **repairing** as used in relation to computer use. (02 marks)

Computer **servicing** refers to doing overall maintenance activities on a computer (both hardware and software),

while;

Computer **repair** refers to the overall activities that are carried out to put back life in a computer not working. <sup>process of identifying troubleshooting and resolving</sup> ~~problem~~ issue in a faulty computer.

- (b). Identify **two** safety precautions for computer users. (02 marks)
  - All cables should be insulated to avoid short circuit.
  - Cables should be laid away from path ways

- Antiglare screens should be provided to screens to avoid too much direct light.
- The room should be properly ventilated and windows opened whenever the computers are in use to create good air circulation
- The walls of the comp room/lab should not be painted with over bright reflective oil paints.
- Overcrowding should not be allowed as it may cause suffocation.

(c). State **one** reason for creating a hard disk partition on a computer. (01 mark)

- Better organize your data. As we all know, partitioning a hard disk will provide you with several separate logical drives.
- Run different operating systems on one PC.
- Reduce the threats of data loss.
- More convenient for backup and restore.
- More selective when encrypting drive.
- Improve performance.

3. (a). State **two** activities that can be carried out on a file. (02 marks)

- Opening.
- Closing.
- Printing.
- Copying.
- Deleting.
- Sending a file.
- Compressing a file.
- Moving a file.
- Renaming a file.
- Finding file properties.
- Scanning a file.
- Creating a new file.

(b). Prepare a check list of **two** requirements of a good file password. (02 marks)

- ~~of characters~~ *(symbols, numbers)*.
- ~~Characters or More~~ *8 Characters or more.*
- ~~Mixed and Matched Caps, Symbols, and Numbers~~
- ~~No Obvious Substitutions~~ *(Not easily guessed)*
- ~~Not in the Dictionary~~
- ~~Doesn't Contain Names~~ *Do not use own name.*
- ~~Doesn't Contain Phone or Address Numbers~~
- ~~Not Saved by the Browser~~ *Never saved by the browser*
- ~~Not Shared with Anyone~~
- ~~Written down in a Safe Location~~



- *Unique*

(c). Give **one** way a file that has been accidentally deleted can be brought back. (01 mark)

- *Press Ctr + Z.*
- *Open recycle bin, locate and select the file, then click restore.*

4. (a). Select **one** term to fill in the spaces provided for (i) to (iii) sub sections below.

- (i). *Input.* (01 mark)
- (ii). *Processing.* (01 mark)
- (iii). *Output.* (01 mark)

(b). State **two** parts that make up the Central Processing Unit. (02 marks)

- *Control Unit.*
- *Arithmetic Logic Unit.*
- *Registers.*

• *System Clock*

5. (a). Define the term **computer software**. (02 marks)

- *Computer Software is a collection of instructions that enable the user to interact with a computer, its hardware, or perform tasks.*

(b). Outline **two** qualities of a good application software program. (02 marks)

- *Robustness / strong.*
- *Functionality*
- *Reliability*
- *Usability / user friendly*
- *Efficiency - compatibility.*
- *Maintainability - Availability / readily available.*
- *Portability*
- *Durability*

(c). State **one** advantage of using a graphical user interface. (01 mark)

- *User friendly / easy to use / easy to learn.*
- *GUIs is that they make computer operations easier to learn and use.*
- *GUIs generally provide users with immediate, visual feedback about the effect of each action.*
- *GUI allows multiple programs and /or instances to be displayed simultaneously.*
- *Users do not need to know any programming languages.*

• *Reliable / Reliability.*

6. (a). You are given the following address: <https://www.google.ug>

(i). *Protocol used*

- *https.*

(ii) **Host name.**

(01 mark)

- *Google.*

(b). State **one** purpose of the following parts of the e-mail message:

(i). **BCC**

(01 mark)

- *To hide identity of all e-mail recipients.*

(ii). **CC**

(01 mark)

- *To open identity to all e-mail recipients.*

(iii). **Attachment.**

(01 mark)

- *To add a separate document, file, message to be sent to the recipients along with the e-mail message.*

7. (a). State **one** way the Internet can support business activities.

(02 marks)

- *Advertising*
- *Online buying and selling of goods and services (e-commerce).*
- *Tracking of goods bought.*
- *Supports online payments and transactions among business people.*
- *Find and book courier services for the transportation of goods. (posted)*
- *Businessmen obtain a wealth of information about a variety of goods and services.*
- *Acquire clearance after filing returns with revenue collection agencies.*
- *Communicate to works, supervisors, e.t.c. in business.*
- *Store lots of information on online servers.*

(b). Define the following data communication tools:

(i). **Wiki.**

(02 marks)

- *A wiki is a Web site that allows users to add and update content on the site using their own Web browser.*

(ii). **Blog.**

(02 marks)



- A blog (shortening of "weblog") is an online journal or informational website displaying information in the reverse chronological order, with latest posts appearing first.
- It is a platform where a writer or even a group of writers share their views on an individual subject.

8. (a). Give **two** dangers of computer vandalism.

(02 marks)

- Leads to loss of data. *Software*
- Leads to damage of computer hardware.
- Leads to imprisonment of offenders.
- Business activities come to a standstill.

(b). State **two** health complications a user is bound to suffer as a result of interacting with a computer for long. (02 marks)

- *It's an extra expense*
- *Repetitive Strain Injury.*
- Wrist pain.
- Constant headaches.
- Sight defect.

(c). Identify **one** way a computer may be used as a tool to committing a crime.

(01 mark)

- *Snooping + Piracy*
- Fraud and identity theft.

- Information warfare. *- 1991 Russian*
- Phishing scams. *- Cyber stacc.*
- Spamming. *- Cyber bullying.*

- Propagation of illegal obscene or offensive content, including harassment and threats.

- *Cyber terrorism*

9. (a). Describe how you would sort data in a spreadsheet application.

(02 marks)

- Select a range of cells.
- On the main menu, select data.
- Click sort and change the order or sort preference.

(b). Give **two** facilities that can be used to emphasize data in a word processor.

(02 marks)

- Bolding.
- Alignment.
- Drop capping.
- Striking through.
- Indentation.

- *Use of superscripts and subscripts.*
- *Highlights.*
- *Font change (size, colour, name, style)*
- *Italicizing text.*
- *Bullets and numbering.*
- *Adding borders.*

(c). State **one** function of a field size in a database table.

(01 mark)

- *To allow a given number of characters <sup>in given field</sup> ~~is~~ a database file.*
- *To make the database a little portable (light in weight).*

10. (a). Give **two** practices of green computing.

(02 marks)

- *Power down the CPU and all peripherals during extended periods of inactivity*
- *Use LCD monitors instead of CRT monitors.*
- *Use notebook computers rather than desktops whenever possible.*
- *Minimize the use of paper and properly recycle waste paper.*
- *Dispose of waste according to state and local regulations*
- *Employ alternative energy sources for computing work stations, server networks and data centers.*
- *Power-up and power- down energy intensive peripherals.*
- *computer virtualization, e.g. running two or more logical computer systems on one set of physical hardware.*
- *Resource allocation, directing data to data centers where electricity is less expensive.*

(b). State **two** applications of information technology in teaching and learning.

(02 marks)

- *Computer based learning.*
- *Distance learning through computer-based training and Web-based training.*
- *Simulations of experiments or real-life situations that may be hazardous.*
- *Electronic library system for searching, borrowing, and returning books.*

(c). Write **one** cause of low computer literacy in Uganda.

(01 mark)

- *High levels of un employment.*
- *Low levels of literacy.*
- *Poverty in some regions.*
- *Un even distribution of electricity.*
- *Taxes imposed on computer equipment discourage users.*

11. (a). Distinguish between WWW and the Internet.

(02 marks)



*The World Wide Web (WWW) is a network of online content that is formatted in HTML and accessed via HTTP,*

**While:**

*Internet is a global computer network providing a variety of information and communication facilities, consisting of interconnected networks using standardized communication protocols.*

(b). State **two** advantages of using an e-mail for communication. (02 marks)

- *It's free(cheap to use). Once you're online, there is no further expense.*
- *Easy to reference. Sent and received messages and attachments can be stored safely, logically and reliably. It's a lot easier to organize emails than paper.*
- *Enables fast communicating.*
- *Can be received from anywhere.*
- *Separate documents can be sent as attachments.*
- *Provides notification whether the mail is sent or not.*

(c). List any **one** item you would need to set – up Internet connectivity at home. (01 mark)

- *MODEM,*
- *Computer / device with a browser software.*

12. (a). State **one** function of a data bus during data processing routine. (01 mark)

- *It provides a pathway for data between processing components.*

(b). Explain the following terms as used in relation to output hardware devices.

(i). **Dots Per Inch.** (02 marks)

- *Dots per inch is a measure of spatial printing, video or image scanner dot density, in particular the number of individual dots that can be placed in a line within the span of 1 inch.*

(ii). **Resolution.** (02 marks)

- *The total number of dots that make up an image on a computer screen.*

13. (a). Write down one specialized person that performs the following tasks:

(i) *Computer technicians.* (01 mark)

(ii) *Network administrator.* (01 mark)

- (iii) *Computer programmer.* (01 mark)
- (b). State **two** possible causes of computer viruses in a laboratory. (02 marks)

- *Downloading Programs downloadable files are the commonest source of malware such as freeware, worms, and other executable files.*
- *Use of Pirated or Cracked Software.*
- *Email Attachments.*
- *Internet.*
- *Bootling Data from Unknown CDs.*
- *Bluetooth sharing of files.*
- *Use of unpatched Software.*

14. (a). Describe a **slide sorter** facility a used in a presentation program. (02 marks)

- *It facilitates*
- *A facility the enables the user to view all the slides in a presentation in a miniature / thumb nail view.*

- (b). List **three** examples of publications that can be created using a DTP program. (03 marks)

- *Certificate - Banner Identity cards*
- *Magazines.*
- *Calendars.*
- *Posters.*
- *Banners.*
- *Certificates.*
- *Brochures.*
- *Branding materials like fliers, business cards, e.t.c.*

15. (a). Choose a term below to fill in the spaces following:

**Half duplex, full duplex, simplex channel, bandwidth, through-put.**

- (i). **Through put.** (01 mark)
- (ii). **Simplex channel.** (01 mark)
- (iii). **Bandwidth.** (01 mark)
- (b). State **two** characteristics of a Local Area Network (LAN). (02 marks)

- *Spans a small geographical space like a building.*
- *Normally UTP cables are used.*
- *Cheap to set up. / requires little initial capital to set up*



• *Easy to set up.*

- Small bandwidth normally realized.
- Easy to manage.
- Allows connection to other LANs to form a bigger network.

16. (a). What is a **peripheral device**?

(02 marks)

- A **peripheral device** is a component that connects to a computer system externally to add functionality.

(b). State **two** reasons to suggest why flash disks are commonly used today.

• *Cheaper in terms of cost than hard drive.*

(02 marks)

- They are portable.
- They are cheaper by unit megabyte.
- They carry a lot of data. *compared to floppy discs*
- They have a high access speed.

(c). Give **one** practical use of a Light Emitting Diode on a computer's system case.

(01 mark)

- To indicate status of a component e.g. available, ready, faulty, processing activity, e.t.c.

17. (a). Give **two** reasons for re-installing computer software.

(02 marks)

• *Corrupted after being corrupted*

- To recover from a hard drive failure.
- To change computer's settings to the best personal needs.
- To make a computer stable after frequent restarts due to viruses.

• *If outdated software. Software having bugs.*

(b). Write down **one** use of the following:

(i). **Drivers.**

(01 mark)

• *To enable hardware configuration i.e. computer system.*

- To enable hardware and software establish communication with a computer system.

(ii). **Software update.**

(01 mark)

- To improve efficiency of a program by adding new functionalities.

(iii). **Software upgrade.**

(01 mark)

- To own a new version of a software program that would suit current needs.

18. (a). Write a check list of **two** utility programs that are used in file management.

(02 marks)

- Archivers utility.

- *Antivirus utility.*
- *Cryptographic utilities.*
- *Data compression utility.*
- *Data conversion utility.*
- *Data recovery utility.*
- *Data synchronization utility.*
- *Disk cleaners utility.*
- *File comparison utility.*
- *File managers utility.*

(b). Identify an application program that can be used to carry out these tasks:

- (i). ~~Database program e.g. Ms. Access, etc.~~ (01 mark)
- (ii). ~~Presentation program. E.g. Ms. PowerPoint.~~ (01 mark)
- (iii). ~~Desktop publishing program e.g. Adobe Indesign.~~ *Ms publisher* (01 mark)

19. (a). State the two network model types. (02 marks)

- *Peer – to – peer network model.*
- *Client – to – server network model.*

(b). Give three advantages of using data communication in an organisation. (03 marks)

- *The messages can be stored on the device for a long period of time.*
- *Computer communication covers large distances through networks.*
- *It is relatively cheaper compared to paper based communication.*
- *It removes semantic barriers (data can be easily channeled to different languages)*
- *It provides facilities such as video conferencing and VOIP which saves a lot of time and money.*
- *Computer communication is faster because people are able to send and receive data / information. instantly / immediately.*

20. (a). Distinguish between a file from a folder. (02 marks)

*Data/info saved w a specific name*  
A file is an object on a computer that stores data, information, settings, or commands used with computer program,

While;

A folder is the virtual location for applications, documents, data or other sub-folders.

*the adrectory for applications, documents, data or other subfolders*  
(b). Study the following file path:

(i) File extension. (01 mark)

- *.docx.*



(ii) Root directory.

(01 mark)

- E.

E:

(c). Give **one** example of symbols that are not allowed in a file name.

(01 mark)

- /

- \

- ?

- ~~~~~

- \*

- :

- |

- "

- <

- >

- ~~~~~

END