

JINJA JOINT EXAMINATIONS BOARD
MOCK EXAMINATIONS 2022

S850/1 SUB – ICT
MARKING GUIDE

Processed raw facts & figures
Processed data

1. a) Define the term Information as used in computing (1Mark)

Information refers to the processed data that makes meaning and is useful

- b) State any four characteristics of meaningful information (4Marks)

- Timely – Information should be available when required.
- Accuracy – No possibilities of even slightest errors
- Completeness – Information should be whole and not partial.
- Comprehensive – should offer all the desired explanations
- Uniqueness – Information should be original

- useful

(any 4X1Mark each)

2. How would you ensure safety of hardware in the computer laboratory?

(5Marks)

- Burglar proofing
- Fit strong locks, doors, windows and roofing
- Employ security guards
- Set up alarms to alert
- Use system locks
- Electronic locking mechanism with keys, swipe cards, finger print recognition *face recog.*
- CCTV Cameras to keep watch over computer systems and centers
- Installing Heating, Ventilation and Air Conditioning (HVAC)
- Do safe well insulated cabling.
- Keep the circuits for computer systems separate from all other equipment such as printers, copiers and coffee makers
- Plug each computer into a surge protector or UPS (Uninterruptible Power Supply Unit) or power stabilisers).
- Lay cables along the walls in trunks */ digging tunnels*
- install lightening conductors */ arrestors*
- Minimize Electrical noise / interferences in the computer environment. (how?)
- Installing Gaseous fire extinguishers */ powder*

(any 5X1Mark each)

3. Consider the file path "E:\2022 and Previous\ICT\ICT_Papers.rar". If you create a subfolder called exams in ICT and then drag the file ICT_Papers.rar into exams.

a) What would the new file path look like? (2Marks)

E:\2022 and Previous\ICT\exams\ICT_Papers.rar

b) Which part of the file path represents;

(2Marks)

i. Parent folder

2022 and Previous

ii. Harddisk partition

E or Local Disk E.

c) Which program can be used to open the file above?

(1Mark)

- WinZip
- WinRAR
- PeaZip
- 7-Zip
- B1 Free Archiver
- The Unarchiver
- IZArc
- Bandizip
- Etc (phone apps)

(any 1X1Mark)

4. a) Define the term computer hardware

(1Mark)

Computer Hardware refers to the tangible components of a computer.

b) List four computer hardware components

(4Marks)

- keyboard - Printers
- mouse
- monitor
- system unit
- speakers
- microphone
- webcam
- scanners etc.

(any 4X1Mark)

5. a) Define an Operating System

(1Mark)

An operating system is a generalized program that manages and coordinates all the activities taking place within a computer system

b) Mention any four functions of an Operating System

(4Marks)

- Starting a computer, (Booting the computer)
- Providing a user interface
- Managing programs
- Configuring devices
- Monitoring performance
- Providing file management
- Administering security
- Managing resources
- Coordinating tasks, and Spooling
- Managing memory
- Establishing network connections

(any 4X1Mark)

6. Differentiate between a webpage and a website

(2Marks)

A Webpage is an electronic document with text and graphic images, written in Hyper Text Markup Language (HTML) WHILE

A Website is a collection of linked Web pages that has a common theme or focus

b) Briefly explain the following as used in websites

(3Marks)

i. html

Hypertext Markup Language, a standardized system for tagging text files to achieve font, colour, graphic, and hyperlink effects on World Wide Web pages.

ii. http

HTTP is an application layer protocol designed to transfer information between networked devices and to load web pages using hypertext links

iii. Hyperlinks

Highlighted keywords and images that lead to related information

7. List any five advantages of cloud computing

- Lower computer costs
- Improved performance
- Reduced software costs
- Better Security
- Instant software updates
- Improved document format compatibility
- Unlimited storage capacity
- Increased data reliability/ safety
- Universal document access
- Easier group collaboration
- Device independence

8. a) Define the term green computing

Green computing is the environmentally responsible and eco-friendly use of computers and their resources **OR**

It is also defined as the study of designing, engineering, manufacturing, using and disposing of computing devices in a way that reduces their environmental impact.

b) Mention any four impacts of Artificial Intelligence on everyday life.

(4Marks)

- Accurate prediction of weather
- Increased leisure time
- Safer transport
- Increased Personal safety
- Improved medical care
- Accept the negatives as well

9. Consider the text below;

Revelation 6:5-6 King James Version

a language used to design websites.

a set of rules used (Protocol)

(5Marks)

Practice of using a network of remote hosted servers to store, manage data and process data rather use of local personal computer

(any 5X1Mark)

(1Mark)

- Not all predicted is actually accurate.

(any 4X1Mark)

5 And when he had opened the third seal, I heard the third beast say, Come and see. And I beheld, and lo a black horse; and he that sat on him had a pair of balances in his hand.

6 And I heard a voice in the midst of the four beasts say. A measure of wheat for a penny, and three measures of barley for a penny; and see thou hurt not the oil and the wine.

a) Which office application program is the most suitable for entering the above text into a computer (1Mark)

MS

MS Word or any Word processing program.

NB: Accept MS Pub

MS Pub

Microsoft Word

MS PowerPoint

b) List any four features of the above application that can be used to emphasise the above text. (4Marks)

- Bold - Border
- Italic - Drop cap
- Underline - Word art
- Fonts(color, size)
- Text highlight color
- Text effects
- Shading etc

10. Mention five ways computers are used in the field of education (any 4X1Mark) (5Marks)

- Computer Assisted Instruction CAI
- Computer Aided Learning (CAL)
- Computer Aided Assessment (CAA)
- School Administration and Management Systems. (SAMS)
- Creating school websites for sharing information with the public
- Students' Report Cards are produced electronically
- Production of error free timetables
- E-learning and increased presence of virtual universities
- Use of screen readers for the visually impaired
- Use of simulation software to perform difficult or dangerous experiments in class

(any 5X1Mark)

11. Your computer does not display any icon on the desktop. You try creating a new folder but it still does not show up.

a) Write down the steps you would follow to overcome the above challenge.

(3Marks)

- Right Click on the desktop
- Point on View
- Select View Desktop Icons

Ctrl + W + arrow

b) Mention any two default desktop icons

- This PC/Computer
- Network

(2Marks)

- Control Panel
- Recycle Bin

~~Start button~~

(any 2X1Mark)
(2Marks)

12. a) Differentiate between a printer and a scanner.

Printer	Scanner
• Output ✓✓	• Input
• Produces hardcopy ✓	• Produces Softcopy
• High maintenance costs	• Low Maintenance costs
• Bulky/Bigger in size	• Smaller in size

(any 1 differenceX2Marks)

b) Briefly explain any three forms of output given by the computer. (3Marks)

- Audio
- Visual /video ✓ ~~video~~ Text
- Print/hardcopy/Braille Dots
- 3D Objects / graphic / pictures / images
- Led lights

(any 3X1Mark)

13. Outline any five characteristics of a good computer software (5Marks)

- provides the required functionality.
- is usable by real (i.e. simple) users.
- is predictable, reliable and dependable.
- functions efficiently.
- has a "life-time" (measured in years).
- provides an appropriate user interface.
- is accompanied by complete documentation.
- can be easily customized/configured.
- can be "easily" maintained and updated.

- Portability
- Robustness

(any 5X1Mark)

14. Mention any five social media platforms represented in the picture below:

(5Marks)



- Instagram
- YouTube
- Facebook
- WhatsApp
- LinkedIn

- Snapchat
- Twitter
- TIKTOK
- Pinterest

(any 5X1Mark)

15. Explain the following elements of data communication

(5Marks)

a. Sender

The computer or device that generates and sends data

b. Receiver

The device or computer that receives the message

c. Messages

is the information or data to be communicated

d. Transmission media

This is the physical ^{channel} pathway by which a message travels from sender to the receiver.

e. Protocols

A set of rules that allow devices to exchange information

small
medium
enterprises

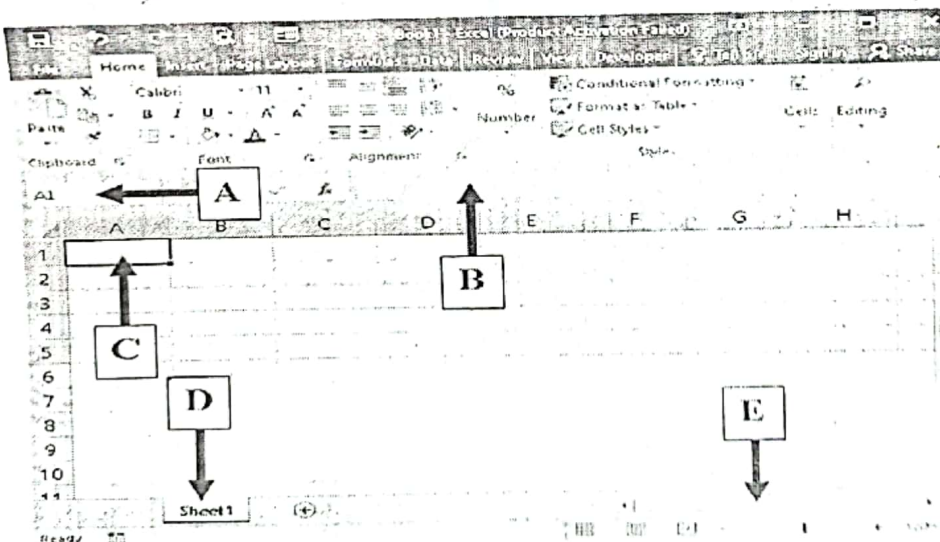
16. State any five factors limiting the full exploitation of ICTs by the SMEs in Uganda (5Marks)

Uganda

- lack of e-business / e-commerce infrastructure;
- lack of skills to develop and maintain interactive websites; and
- the use of obsolete technologies.
- high cost of internet connectivity;
- security issues concerning payments; ^{electronic fraud}
- Shortage of skills. ^{business}
- limited and poor-quality bandwidth;
- lack of security guarantees;
- inadequate legislative framework;
- frequent internet downtime; ^{internet breakdown}
- slow internet access;
- high taxation; and
- inadequate technical support.

(any 5X1Mark)

17.



Name the parts labelled

A...Name Box

B...Formula Bar

C...Cell

D...Sheet Tab

^{Address box}

^{active cell}

(5Marks)

E...Horizontal Scroll Bar

18. Outline any five factors to consider before buying a computer. (5Marks)

- The Processor Speed
- Size of RAM
- The manufacturer/Brand
- Harddisk capacity and speed
- Extra ports/peripherals available
- Power Consumption
- Physical Size/Bulkiness
- Price
- Software installed/compatible with
- Warranty

- Purpose (any 5X1Mark)

19. Briefly explain the following terms as used in software (5Marks)

a. Freeware

Freeware is copyrighted software provided at no cost by an individual or a company that retains all rights to the software

b. Shareware

Shareware is copyrighted software that is distributed at no cost for a trial period.

c. Open source

Open-source software is software provided for use, modification, and redistribution at no cost.

d. Custom software

Custom software is taylor-made software, which is developed at a user's request to perform specific functions.

e. Off-the-shelf

This refers to packaged software that is designed to meet the needs of a wide variety of end users

20. List any 3(three) and 2(two) advantages and disadvantages of using internet respectively

Advantages

(3Marks)

- Interactive communication
- Resource sharing
- Facilitates Research
- Entertainment tools for leisure
- Online services
- Information on the World Wide Web
- Telecommuting
- Large storage
- Accessible 24/7

e-commerce/e-business

(any 3X1Mark)

Disadvantages

(2Marks)

- Computer viruses
- access to unsuitable material
- Theft of Personal information
- Spamming
- Cyber bullying
- Some people get addicted to the internet
- The initial cost of connecting to the internet is high

Cyber crimes
- Pirating
Hacking

(any 2X1Mark)

Maintenance