

**JINJA JOINT EXAMINATIONS BOARD**  
**MOCK EXAMINATIONS 2022**  
**S850/1 SUB – ICT**  
**MARKING GUIDE**

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*

*(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*
- *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*
- *install lightening conductors*
- *Minimize Electrical noise / interferences in the computer environment. (how?)*
- *Installing Gaseous fire extinguishers*

*(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 | • 7-Zip            | • IZArc            |
| • WinRAR | • B1 Free Archiver | • Bandizip         |
| • PeaZip | • The Unarchiver   | • 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 | • system unit | • webcam       |
| • mouse    | • speakers    | • scanners etc |
| • monitor  | • microphone  |                |

**(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 connectionsa)

**(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**

**(5Marks)**

- *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*

**(any 5X1Mark)**

**8. a) Define the term green computing**

**(1Mark)**

**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*

**(any 4X1Mark)**

**9. Consider the text below;**

Revelation 6:5-6King James Version
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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 Word or any Word processing program.*

*NB: Accept MS Pub*

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

- *Bold*
- *Italic*
- *Underline*
- *Fonts(color, size)*
- *Text highlight color*
- *Text effects*
- *Shading etc*

*(any 4X1Mark)*

**10. Mention five ways computers are used in the field of education (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*

**b) Mention any two default desktop icons (2Marks)**

- *This PC/Computer*
- *Network*

- *Control Panel*
- *Recycle Bin*

(any 2X1Mark)  
(2Marks)

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

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

(any 1 differenceX2Marks)

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

- *Audio*
- *Visual*
- *Print/hardcopy/Braille Dots*
- *3D Objects*

(any 3X1Mark)  
(5Marks)

**13. Outline any five characteristics of a good computer software**

- *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.*

(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 pathway by which a message travels from sender to the receiver.*

**e. Protocols**

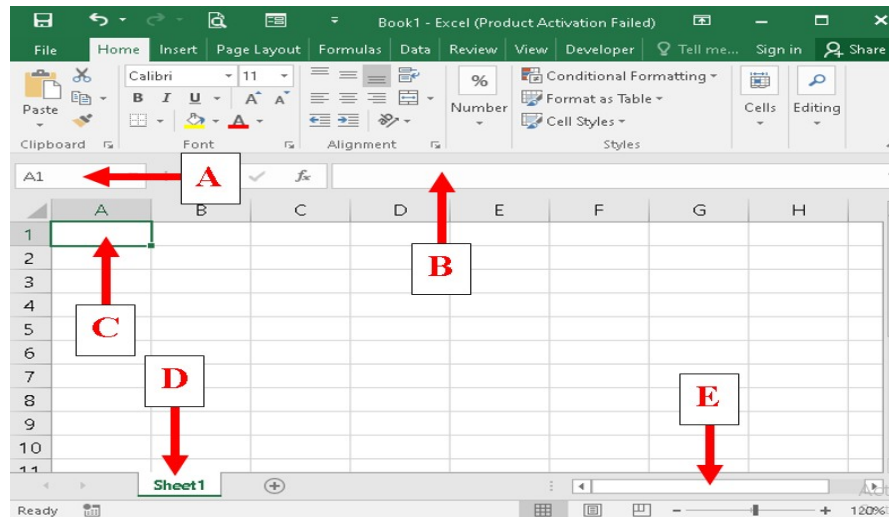
*A set of rules that allow devices to exchange information*

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

- 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;
- Shortage of skills.
- limited and poor-quality bandwidth;
- lack of security guarantees;
- inadequate legislative framework;
- frequent internet downtime;
- slow internet access;
- high taxation; and
- inadequate technical support.

*(any 5X1Mark)*

17.



**Name the parts labelled**

**(5Marks)**

**A...Name Box**

**B...Formula Bar**

**C...Cell**

**D...Sheet Tab**

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

**(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 tailor-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

**(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

**(any 2X1Mark)**

END