S850/1
SUBSIDIARY
ICT
Paper 1
July / August
2 ½ Hours

MARKING GUIDE

100%
chief approved

ELITE EXAMINATION BUREAU MOCK 2024

Uganda Advanced Certificate of Education

Information and Communication Technology

Paper 1

2Hours 30Minutes

Instructions to Candidates:

- Attempt **ALL** questions in this paper.
- The paper consists of **20** equally weighted structured questions of **5** marks each
- Write your answers in the spaces provided.
- No additional materials (answer sheets) are provided.

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	TOTAL

Turn over

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1. a).What is the role of a **CMOS** battery? (02marks)

The CMOS battery is responsible for powering on BIOS firmware which is a key component in the general booting process of a computer.

b).Identify any other **three** components mounted by the motherboard apart from CMOS battery. (03marks)

i. RAM chips Expansion Slots

ii. ROM chips

iii. chipsets (Intergrated circuits)

2. a).Distinguish between a **file** and a **folder**. (02marks)

A file is a named collection of related data. While, A folder is a virtual container that holds files and subfolders.

b).State **three** advantages of using folders in file management. (03marks)

i. Increased reduced risk of data loss

ii. Easier file storage and refreval

iii. Reduced file misplacement

3. a).Describe a file extension? (02marks)

A file extension is a suffix that accompanies a file name and describes the nature of a particular file. (file type)

b).Write down file extensions for the following files. (03marks)

i. Executable file .exe

ii. MS PowerPoint file .pptx , .ppt

iii. Microsoft excel file .xlsx , .xls

4. a).Outline **three** specifications one should consider before buying a desktop computer. (03marks)

i. RAM size , Computer brand

ii. Storage capacity , Software compatibility

iii. Durability of a computer

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b).Distinguish between a **Power Supply Unit** and **Uninterruptable Power Supply.** (02marks)

The power supply unit convert alternating current to direct current. While, a UPS provides a power ~~p~~ backup, protecting ~~(c~~ tools in the event of power failure. 02

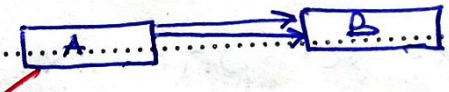
5. a).Describe the following modes of communication.

i. Full- duplex mode (01mark)

Under full duplex mode, signals are transmitted in either directions simultaneously, at the same time.

ii. Simplex mode (01mark)

Under simplex mode, signals are transmitted in only one direction.



03

iii. Half duplex mode (01mark)

Under half duplex mode, signals are transmitted in either directions one at a time.

iv. b).Give **two** example of guided transmission media. (02marks)

i. Twisted Pair cables, Coaxial cables

ii. Optical fibre cables, copper wire cables.

02

6. a).What is a **client –server** network? (02marks)

A client-server network is a network where one computer deliberately distribute ~~respon~~ resources to other computers (clients)

02

b).Name **three** hardware requirements for establishing a computer network. (03marks)

i. Network Interface cards

ii. Routers, Network switches,

iii. Modems, Repeators.

03

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7. a).Give **two** examples of graphical user operating systems. (02marks)

i. Windows XP , Windows 11 Pro,

ii. Android Operating system,

02

b).Outline **three** functions of an operating system. (03marks)

i. The operating system provide a user Interface

ii. The operating system performs the booting process

iii. The operating system administers system security.

03

8. a).Explain the term application software? (02marks)

Application Software is a program designed to perform specific tasks for the user ~~and~~ using a variety of programs.

02

b).Give **three** types of application software. (03marks)

i. Word processors such as K-word, Abiword

ii. Spreadsheet software such as Ms Excel,

iii. Presentation Software such as slide dog,

03

9. a). Why should you advise someone to translate a high level language into machine code? (02marks)

Because a machine code is directly interpreted and understood by a computer processor

02

b).List **three** language translators in programming. (03marks)

i. Compilers Debuggers

ii. Interpreters Assemblers

iii. Linkers

10.a) Explain the following internet services; (03marks)

03

i. cloud computing

cloud computing is the delivery of computing services via the internet.

07

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b).Outline **two** advantages of sending a message electronically other than by ordinary post (02 marks)

Electronic mails are secure in transit compared to ordinary post.
Electronic mails have inbuilt features such as attachment for additional files unlike ordinary post.

02

13.a).Define emerging technology. (02 marks)

Emerging technology is a type of technology whose advancement and development are still under way.

02

b).Give **three** examples of emerging technologies applied/ being invented today (03 marks)

Artificial Intelligence,
Virtual Reality (VR), Self driven cars
Expert systems, ~~Vaccines~~
Robotics, Cancer vaccination machines.
Nano technology, stem therapy,

03

14. State five ways in which ICT is applied the banking industry (05 marks)

i. ICT is applied in banking industry through the use of electronic fund banking/transfer
ii. ICT is applied in banking industry through the use of electronic point of sale machines (EPOS)
iii. ICT is applied in the banking industry through the use of automated teller machines.
iv. ICT is applied in the banking industry via electronic banking.
v. ICT is applied in the banking industry via the use of currency counting machines.

05

15.a) Define a presentation software (01mark)

A presentation software is an application software designed to present/produce information to a large group of people (audience)

01

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ii. Telecommuting

Telecommuting is an internet service where employees work from their homes or distant places from their physical office addresses. (02)

iii. Video conferencing

Video conferencing is a real time online communication between participants in different geographical locations. (02marks)

b) Give two tools/devices required during video conferencing

Web camera, Microphone, Projection screen, Modem (02)

11.a).Distinguish between **Random Access Memory** and **Read Only Memory** (02marks)

RAM can be increased in size while ROM cannot be increased. (02)

b).Under what circumstances can one use secondary storage media? (03marks)

i. When playing ~~of~~ video and audio files

ii. In case one is transfering files from one computer to another.

iii. When transfering and installing software programs. (03)

12.a).From the following e-mail address, name the parts (i)-(iii) (03 marks)

Jkiggundu2019@Swift.edu.

i. **Jkiggundu2019**

Username

ii. **Swift**

Domain name (03)

iii. **edu**

Top Level Domain

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b) Name two examples of presentation software (02marks)

Microsoft powerpoint, Prezzi, Zoho slides
slide dog, K-presenter, Google slides,

02

c) Give two examples of slide layouts that you know (02marks)

title only, Two content layout
Blank slide, Comparison slide layout

02

16. Study the function below and answer the questions that follows; (03marks)

= Rank (C2, $C$2:$C$8, (0))

a) What does the following represent?

i. =

= sign means the starting point of a function.

ii. RANK (

RankC shows the function argument

03

iii. (0)

(0) represents the order of the output particularly the descending order or from the lagest to the smallest value

b) Distinguish between absolute cell referencing and relative cell referencing (2marks)

Absolute cell referencing are constant, that is to say they dont change, while Relative cell referencing change when a formular is copied to a new location.

02

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17. Give one function of each of the following tools in a computer laboratory

i. Woolen carpet (01mark)

A woolen carpet provides a safe cushion for ICT components should they befall from raised surfaces such as tables.

ii. Closed Circuit Television camera (01mark)

CCTV camera is used to provide security to the computer laboratory by capturing motion picture

iii. Air conditioner (01mark)

Air conditioner is used to regulate temperature in the computer laboratory.

05

iv. Blower (01mark)

A blower is used to remove dust particles from computer and other ICT devices.

v. Form cleaner Foam (01 mark)

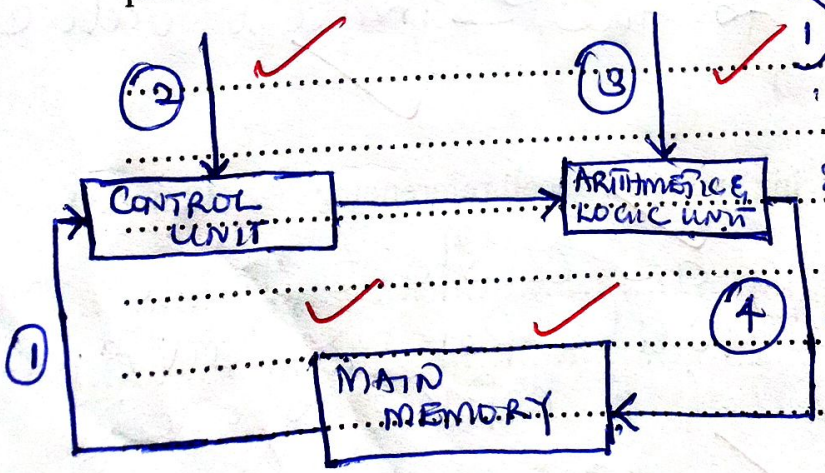
A foam cleaner is used to erase dirt from the monitor screens and other ICT tools.

18. a) Define a machine cycle (01mark)

A machine cycle is a sequence of operations carried out by the processor to execute a single instruction.

01

b) With the help of an illustration, describe the stages through which a computer processor executes a given instruction (04marks)



1) Fetch - retrieve an instruction from memory.

2) Decode - translate the retrieved instructions into commands

3) Execute - carrying out commands

4) Store - maintaining the result into memory.

04

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19. a).Define the term system security (02marks)

System security is the practice of protecting information systems from unauthorised access, destruction or even modifications. 02

b) Suggest any three measures that can be adopted to protect data and computer systems (03marks)

By use of burglar proofing

By installing firewalls, By use of antivirus software

By data encryption

By installing strong passwords

Use of CCTV cameras. 03

20. a).Give **two** advantages of internet to a school (02 marks)

i. Internet facilitate educational research. 02

ii. Internet promote school based task accomplishements.

b). Name **three** internet based tools used to search for information (03 marks)

i. Google America Online

ii. Ask.com Yahoo

iii. Bing Info.com 03

Duckduckgo Naver

Baidu Yandex

You.com Ecosia

My web search,

END

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