

1a) Explain the term information and communication technology.

Information and communication technology is the combination of telecommunication and computer technologies to enhance communication.

b) State three ways in which information technology has improved communication.

People in remote places use mobile phones to access telephone services.

ICT facilitates group discussions

People can communicate through e-mails

ICT facilitates chatting through chat rooms

Websites

Storage

Cheap

Teleconferencing

Video conferencing

Instant messaging

News groups

ICT enables people to send and receive fax messages

2) Give one reason why a school director would purchase the following equipment for a computer laboratory.

a) Blower

To facilitate cleaning of computing equipment by removing dust from the equipment.

b) Anti-glare filter screens

To regulate excess light from monitors especially CRT monitors so as to reduce eye strain.

c) Air conditioner

To regulate temperatures and monitor air distribution in the computer laboratory.

3) During a practical examination, students were required to open a blank file and save it as **D:\STUDENT WORK\EOT PRACTICAL\safety.doc**

a) State the name of the immediate subfolder in which students must save the file.

EOT PRACTICAL

b) Write the root directory onto which the file must be saved.

D:\ or D:

c) Suggest one example of a computer application the student can use to create the file.

Word processing software like Microsoft word

d) State the name of the file represented by the above file path.

safety.doc or safety

4) Study the devices below and answer questions that follow.



a) Name the devices labeled:

- A **Digital camera or camera**
- B **Bar code reader**
- C **Scanner or flatbed scanner**

b) Give one major similarity between devices A and E.

Both are input devices
Both are used to feed data into a computer for processing

c) Identify one device which can be categorized as an output device.

Device D (speakers)

5) Read the statements below and write the words TRUE or FALSE in the spaces provided.

	STATEMENT	TRUE/FALSE
a)	Machine code is one of the low level computer languages	TRUE
b)	Microsoft is the only operating system in use in Uganda	FALSE
c)	WINZIP is an example of a system software which reduces the actual size of a file	TRUE
d)	A student delivering a presentation would need an LCD projector and a laptop	TRUE
e)	Screen savers can be categorized as desktop publishing software since they can be used for advertising purposes	FALSE

6a) State any two adverse effects of using internet for business and communication

Identity theft
Hacking
Cracking
Internet based fraud
Sabotage
Cyber terrorism
Masqueraders
Phishing

Pharming
Illegal tapping
Piracy
Eavesdropping
Plagiarism
Loss man hours
Altering
Virus infections

b) Suggest the most appropriate internet communication service in the following situations:

i) Online meetings between two company employees in geographically separated regions.

Video conferencing

Teleconferencing

Instant messaging

ii) Instant and real time communication between friends.

Internet relay chats or chat rooms

Instant messaging

iii) Typed views on an on-going online discussion amongst a specific group of people.

Discussion groups or discussion forum or discussion fora

7a) Identify any three devices other than computers required to set up a network within a school environment.

Network interface cards
Router
Repeater

Hubs
Switches
Ethernet cables

Wireless access points
Bridges
Transmission media

b) Distinguish between data communication and networking.

Data communication refers to one computer transferring data, information and instructions to another computer or other computers on a communications channel whereas networking is the linking or connecting of two or more computers to share resources.

8a) List any three possible threats to data in a computer networked environment.

Unauthorized access or cracking or hacking
Computer virus infection
Information theft
Data encryption
Change of file names
Adding a password
Data deletion
Plagiarism
Pharming
Change of file location or hiding of files

b) Name any two types of security measures which can be used to control the threats listed in (a) above.

Strong passwords and usernames

Activating firewalls

Use of biometric devices

Data encryption

Prosecuting suspected culprits

Sensitize users about data safety measures

9) Given below is a notice which a head girl has typed and intends to pin up on all the notice boards in the school.

<p>THE REGIONAL SWIMMING GALA ON 22nd NOVEMBER 2014 FEE: 5000 REGISTER WITH HEADGIRL</p>

Explain any five word processing features which the head girl would use to enhance the appearance of the above notice.

Bolding to make the text more obvious

Font size

Alignment

Font type

Underline

Background colour

Line spacing

Italics

Text highlighter

Clip art

10a) Suggest one way in which computers have been made user-friendly for persons that are physically challenged in the following areas:

i) Without hands

Voice recognition devices for data input

Use of biometric devices instead of typing passwords

Use of sensors

ii) Impaired vision

Use of sensors

Braille keyboards or data written in braille

Use of projectors

Audio enabled keyboards

Voice recognition devices for data input

Use of biometric devices instead of typing passwords

b) Give three health issues that may be caused by the prolonged use of computers.

Eye defects

Repetitive strain injury

Techno stress

Body pain

Headaches

Neck pain

Back pain

Fatigue

Germs from the keyboard

11) Choose the appropriate file extensions from the list given for sentences (a) to (e).

.doc .txt .tif .bat .sys

a) Program files that perform fundamental operations in a computer.

.sys

b) A Microsoft word file.

.doc

c) A file containing series of commands during boot up.

.bat

d) A plain file created using note pad.

.txt

e) A graphical file created using applications such as Adobe Photoshop.

.tif

12a) State any three operations of the machines cycle of a central processing unit.

**Fetching
Decoding**

**Execution
Storing**

b) Describe any one of the operations stated in (a) above.

Fetching-obtaining a program instruction from memory

Decoding-translating instructions into commands a computer can handle

Execution-undertaking processing tasks

Storing –transferring results of processing into memory from CPU

13a) A set of instructions that are arranged in a logical way to run a computer is called:

Computer software or system software or a program

b) List any three categories of system software.

**Operating system
Programming languages**

Utilities/service programs/system utilities

c) Give one example of presentation software.

**Microsoft PowerPoint
Open office presentation**

**Kingsoft presenter
Google slides**

Lotus freelance

14a) Give three benefits of connecting computers to the internet

E-mails
Backup or online storage
E-commerce
File download or upload
Discussion groups
Weather forecast information
E-learning
Access to news
Online booking and reservations

Instant messaging
E-governance
E-publications
Online games
Software update
Social networking
Telecommuting
Collaborative research

b) Outline two disadvantages of connecting computers to the internet

Information theft
Computer viruses
Hacking
Cracking

Additional costs
Exposure to pornography
Deprives one of privacy

15) Explain why an organization would prefer to use electronic mail (E-mail) over ordinary mail.

One can send any size of messages just at the cost of a local call.

They can be sent at any time and the results are almost simultaneous because the messages reach their destinations after a short time.

Electronic mails are highly efficient.

They save a lot of time for example you can present a report at a conference by going to it and downloading it from the conference.

Saves time, paper, and money compared to the telephone or written letters

The recipient may read the message anytime

Allows you to communicate easily with many people at once

Allows you to thoughtfully compose what you would like to say

Ability to send to multiple recipients at the same time.

It is very easy to send a reply to an e-mail as soon as it is received by using a reply button.

Large files such as spreadsheets and graphics can be sent as attachments

Can be used for advertisements

Assurance of whether the mail has been delivered is given

No use of stamps

Convenient when retrieving and delivering

16) Outline five areas of self-employment that a sub ICT student can engage in.

Offering software support
Print publications/create/ Advert designer
Photocopying and typesetting
Writing CDs
Music mixing
Internet café management

Video editing
Computer secretarial bureau
Computer vendor or dealer
Digital money transfer dealing
Teaching ICT
Computer servicing and repair

17) Use the terms below to complete the sentences that follow in (a)-(e)

- Slide transition
- Slides
- Animation effect
- Slide layout
- Slide design
- Slide show
- Slide master
- Handouts

- a) The visual movement from one slide to another slide is **slide transition**.
- b) The **animation effects** setup the way text/objects appear on a slide during a presentation.
- c) The presentation of slides in a sequence on a projection screen is referred to as **slide show**.
- d) The **slide layout** defines the arrangement of all items that make up a slide.
- e) A user can print the entire presentation on one page by printing the **handouts**.

18a) State one difference between a compact disc (CD) and a digital versatile disc (DVD)

DVDs have higher storage capacity than CDs

DVDs are cheaper per unit data storage

DVDS guarantee higher quality features (sound and video)

CDs are cheaper (cost) than DVDs

Reading and writing CDs is faster than on DVDs

b) Explain the circumstances under which the following storage devices are used.

i) Memory card

When data has to be read from small electronic devices like phones, PDAs and palmtops

When there is a likelihood of making changes to files

When there is need to access files on various electronic devices

When there is need to transfer files from one device to another

When you have a memory card reader

ii) Flash disk

When there is need to access files on various electronic devices with USB ports

When files have to be kept for a long time (quickly and easily backup files)

When more files have to be added from time to time

When there is need create a boot disk

19a) Describe the following terms in programming languages

i) Interpreters

Interpreters are programs that read one of the source language instructions line by line and change it into machine language when the program is running.

ii) Syntax

The grammar of a programming language

iii) Debugging

Detection and removal of syntax and logical errors in a program.

b) Identify two characteristics of a good programming language.

Suitability to the problem

Availability

Clarity and simplicity

Consistency

Efficiency

User friendliness

20) Using the e-mail address: annet@gmail.com, identify what these parts stand for:

a) annet

User name

User

User ID

Unique ID

b) @

Symbol that separates the e-mail user name from the rest of the address

c) gmail

Domain name

The service provider

Server name

d) .com

Organization name (where the e-mail account is held)

Top level domain (type of domain where the e-mail account is held)

END