CIT		CT		N.T	
5 E	U	ш	U.	N	A

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

SECTION B

- 21.(a) Computer software refers to a set of instructions that tell a computer what to do and how to do it. OR
 - Computer software refers to a collection of computer programs and other related data that provide instructions to computer hardware. OR
 - Refers to electronic instructions and procedures that control the operation of a computer. OR
 - Its a set of instructions that tell a computer to perform or accomplish a given task.

(Any 1x2)

- (b) Categories of computer software
 - System software
 - Application software (Any 2x1)
- (c) System software
 - Operating system e.g. Windows, Linux, Unix, DOS, Mac-OS e.t.c.
 - Utility programs e.g. Anti-virus, Merge, Sort, Compression, Defragmentar, Diagonsis, Search e.t.c.
 - Programming Languages e.g. (All programming languages)

Application software

- Word processors e.g. Ms word, Abi word, Wordpro, Word perfect etc.
- Spreadsheet application e.g. Ms-excel, Lotus 1, 2, 3, Open office.org calc, Kspread etc.
- Presentation software e.g. Ms powerpoint, Screencast, Adobe persuasion etc.
- Web Authoring Software e.g. Internet explorer, Opera, Firefox mozilla etc.
- Accounting software e.g. microsoft accounting, quickbooks,
- Audio and video editing software

(Any 2x1)

NB: Answers **MUST** be based on any one category given in 21(b) above.

- (d) (i) A word processor is a computer application program used to produce a text document. **OR**
 - It is an application program that enables a user to create, save, edit, format, and print a proffessional document. (Any 1x2)
 - (ii) Examples of word processing software.
 - Lotus word pro • Corel word perfect
 - Abi word
- Kingsoft writer Word star
 - Apple pages
- Latex editor

Word pad

Org writer

- Ms word
- Libre office writer
- Open office
- Google docx

(Any 2x1)

Total for PUSI = 23022.(i) (a)

(1x1)(1x1)

Average for SANDRA = 49(b) Position for KAIJA =1

(1x1)

Total average mark for all the students = 378.75

(1x1)

- (ii) Examples of spreadsheet application programs apart from Ms Excel.
 - Google sheet

Apple numbers

Libre office

(c)

Kingsoft spreadsheets

• Lotus 1,2,3

Quattro pro

Visi Calc

Ability spreadsheet

Kspread

Super Calc

• Open Office. org Calc

- - Star office Calc (Any 2x1)
- (b) Areas where spreadsheet can be applied.
 - Accounting
 - Data managent

Forecasting

Statistical analysis

(Any 2x1)

22.(b) (ii) Merits of using Electronic spreadsheets. It is easy to make corrections and changes to data worksheet Operation is fast with the help of inbuilt functions. They offer larger virtual datasheets for data entry and manipulation They provide/have inbuilt formulas and functions that enable the user quickly manipulate mathematical errors. It allows re-calculation if entries are adjusted or changed Provide functions and formulas to perform calculations. Electronic spreadsheet produce neat work. Data can be stored and retrieved for repeated use under electronic spreadsheet. (Any 4x1)- A browser is a program used to locate and display web pages 23.(a) (i) - Is a communication software designed to allow the uses to access and view web pages (HTML documents) on the internet. - Is a software application that allows the users to view information on the www. - Is a type of software that retrives and presents information resources on the internet. - Is a communication software that is designed to interprete hypertext Markup Languages. (Any 1x2) (ii) Examples of browsers: Ms Internet Explorer Google chrome The world Safari Maxthon chrome • Opera Mozilla firefox **Tecent Traveller** • Netscape Navigator UC browser (b) Merits /Advantages of using Emails • Provide immediate feedback possibility of multimedia mails to be recieved very quick delivery Sending is cheaper Provide secured passwords • They can be sent to multiple recipients They offer provision of passwords. conviniently • Reduces paper costs (Any 3x1)(c) Limitation of using Emails: • Expensibe in terms of Hardware and Data They spread computer virus • Computersa literacy is required Limited Access to the internet • Easily be accessed or intercepted by Hackers • They are associated with Junk mails (Any 3x1)• Need of face to face interaction 24.(a) (i) Cold booting is the process of starting a computer that has been completely off./This is the turning on of a computer WHILE Warm booting is the process of restarting/resetting of a computer that was already on. (ii) Kinds of information stored in the CMOS of a personal computer. Amount of physical memory installed Information of the type of disk drives Hardware settings (RAM) current system Date Amount of Hard disk space. Current system Time (Any 2x1)(b) Examples of secondary storage Devices Hard disk drive • Flash disk drive Jazz drive Floppy disk drive DVD drive Magnetic tape drive CD drive Zip drive (Any 2x1)(c) Examples of Secondary storage media 25.(a) Output devices • Printer Earphone Projector plotters Fax machine Monitor Speaker (Any 4x1)(b) 1. Keyboard 4. Barcode reader 2. Mouse 5. Voice/Sound reader 3. Scanner 6. Game pads, Joystick, lightpen, mouse, keyboard (Any 1x1)

- 26.(a) * Computer Networs is a connection of two or more computers sharing the same resource i.e. peripherals, software and communication purpose. OR
 - * A collection of two or more computer and devices connected by channels so that they communicate with and other and share resources. (Any 1x2)
 - (b) Network types:
 - Personal Area Network (PAN)
 - Wide Area Network (WAN)
 - Metropolitan area Network (MAN)

• Local Area Network (LAN)

Storage Area Network (SAN)

(c) - Unguided Media/wireless e.g. Bluetooth, Infrared, Satellite

- Guided media/ wired e.g. coaxial, untwisted, twisted pair cable, optical/fibre cables etc.

(Any 1x3)
(Any 1x2)

(d) I.R.C - Internet Relay Chart

F.T.P - File Transfer Protocol

NIC - Network Interface Card

SECTION C

27.(a) Features of spreadsheet application.

- Saving feature which enables a user to create a file for the workbook in a directory on the disk.
- Column and rows where columns are labeled with letters and rows labeled with numbers.
- Auto complete feature which speeds up data entry especially if one has to entre a particular word or phrase repeatedly.
- Formulas which are used to express mathematical relationships between cells.
- Copy which allows one to duplicate a section of text.
- Functions which are used as shortcuts when parforming mathematical calculations e.g. sum, Average, Min etc.
- Cell references (Addresses which are row and column coordinates of a cell)
- Ranges which combine two or more adjacent cells in a worksheet e.g B2:D8.
- Graphics and charts which represnt data graphically in a spreadsheet.
- Insert/delete column and row feature
- Cut and paste which allows one to remove a section of text from one place and insert it somewhere else in a spredsheet
- Search and replace feature that allows one to search and replace aparticular word/phrase.
- Headers/footers and page numbering
- Spell checkers
- Print
- Sort
- alignment Wraptext e.t.c.

(Any well explained 5x2)

- (b) Advantages of using Ms Excel.
 - It is easy to make changes and corrections (to edit) data in microsoft excel.
 - Ms Excel can quickly perform mathematical, statistical and financial calculations.
 - Ms excel have inbuilt functions and macros which make work easy
 - Calculations are always accurate provided that the data and formula entered are correct
 - Ms excel easily dilters, sort and arrange data in alphabetical order for better organisation
 - In Ms excel work can be saved in sofcopies that can be easily modified and reused in future
 - Ms excel allows recalculation of entries adjusted/changed
 - Ms excel operations are fast with the help of inbuilt functions and macros

(Any Explained 5x2)

28. End user application programs

- Accounting packages
- Word processors
- Spreadsheet
- Database management system
- Presentation software
- computer aided design software
- Desktop publishing software

- Web authoring software
- Media players
- Graphics software
- Image/paint editing software
- hospital management system
- School management systems
- Insurance system

(Any explained 10x2)

29.(a) Services of the internet

- Email
- Elearning
- Eregistration
- Ecommerce
- Voice over Internet Protocol
- Instant messaging
- Online charting
- Internet Relay chart
- Video conferencing

(b) Arguments in favour

- Teleconferencing
- Cloud computing
- Usenet
- web directory
- social networking
- World Wide Web
- File transfer protocol
- Telenet
 - News groups etc. (Any 4x1 well explained)
- employment opportunities e.g computer teachers, software engineers have been created in Uganda.
- Improvement in Uganda's teaching e.g through using projectors and white boards.
- Facilitated communication through the introduction of mobile telecommunication services
- Improvement in security e.g use of CCTV cameras
- Facilitated entertainment by providding computer games
- Promoted online buying and selling of products
- Promoted online registration
- It has improved the banking sector e.g online banking facilities e.t.c.

(Any 6x1)

Arguments aganist;

- Unemployment e.g. a tractor can do work of a 1000 people
- Creation of health Hazzards e.g. eyestrain, backache
- computers have killed creativity
- Moral deacay/degredation through watching pornographic literature
- Environmental depletion e.g. poluuiton
- destruction of the culture
- Electronic fraud
- Hacking
- Impersonation
- Rapid computer virus spread.

(Any 6x1 well explained)

END