

CHRISTIAN SOCIAL SERVICES COMMISSION- (CSSC)
NORTHERN ZONE JOINT EXAMINATION SYNDICATE(NZJES)



FORM TWO PRE-NATIONAL EXAMINATION AUGUST 2024
INFORMATION AND COMPUTER STUDIES
MARKING SCHEME

1. 10 marks

i	ii	iii	iv	v	vi	vii	viii	ix	x
B	D	B	A	D	B	B	B	B	D

2. 5 marks

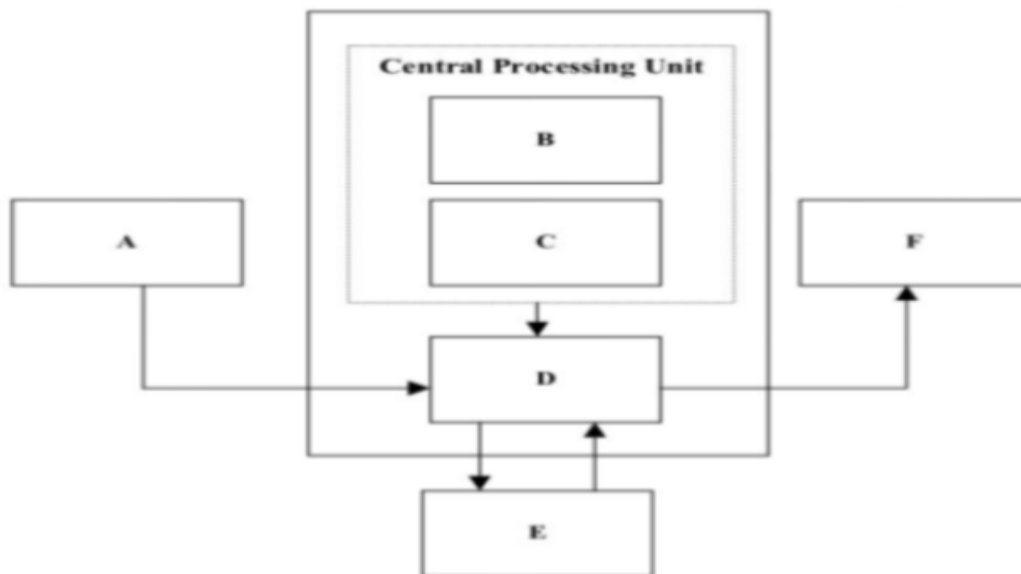
i	ii	iii	iv	v
E	H	D	F	C

3. (a) A library system uses a computer system to manage book borrow and book returns. Outline three (3) advantages of using a computer rather than doing this job manually.

- i. Speed**
- ii. simplify work**
- iii. Connectivity:**

Store data

(b) (i) The diagram below shows a simple computer system with its data flow. Identify the six Components marked as A, B, C, D, E and F.



- A. Input
 - B. ALU
 - C. Control unit
 - D. Main memory
 - E. Secondary storage
 - F. output
- (03 marks)

(ii) List two functions of Central Processing Unit (02marks)

- **Decodes and executes instructions obtained from software programs.**
- **Performs arithmetic calculations.**
- **Controls and supports the timing of each operation**

(iii) Give any four devices which act as part A above. (02 marks)

Microphone, printer Scanner, monitor Digital camera, speaker Keyboard, Mouse

4. (a) (i) Define an operating system (01 marks)

is a program that manages a computer's resources and runs other programs

(ii) Outline three (3) functions of operating system (03 marks)

- i. **Booting computer**
- ii. **File handling**
- iii. **File management**
- iv. **Hardware management**

(b).Mention three (3) types of operating system according to user interface (03 marks)

- i. **Graphic user interface**
- ii. **Menu drive**
- iii. **Command line**

(ii)Is necessary a computer to have an operating system? Give two (2) reasons to support your Answer (03 marks)

- **Execute the various user programs Make tasks easy for you.**
- **The operating system is responsible for managing and controlling all the resources of the computer.**

5. (a) Define the term Computer network

is two or more computers that are connected with one another for the purpose of communicating data electronically. (02 marks)

(b) Outline two (2) advantages and disadvantages of computer networks (02 marks)

- **Sharing information**
- **it easier to collaborate on projects**

Disadvantage

- **hacking**
- **spread of virus**

(c) (i) Differentiate between Wide Area Network (WAN) from Metropolitan Area Network (MAN) (02 marks)

A Metropolitan Area Network (MAN) is designed to cover a larger geographic area than a LAN but smaller than a WAN, typically encompassing a city or a campus. Wide Area Network (WAN), on the other hand, covers a much larger area, potentially spanning countries or continents.

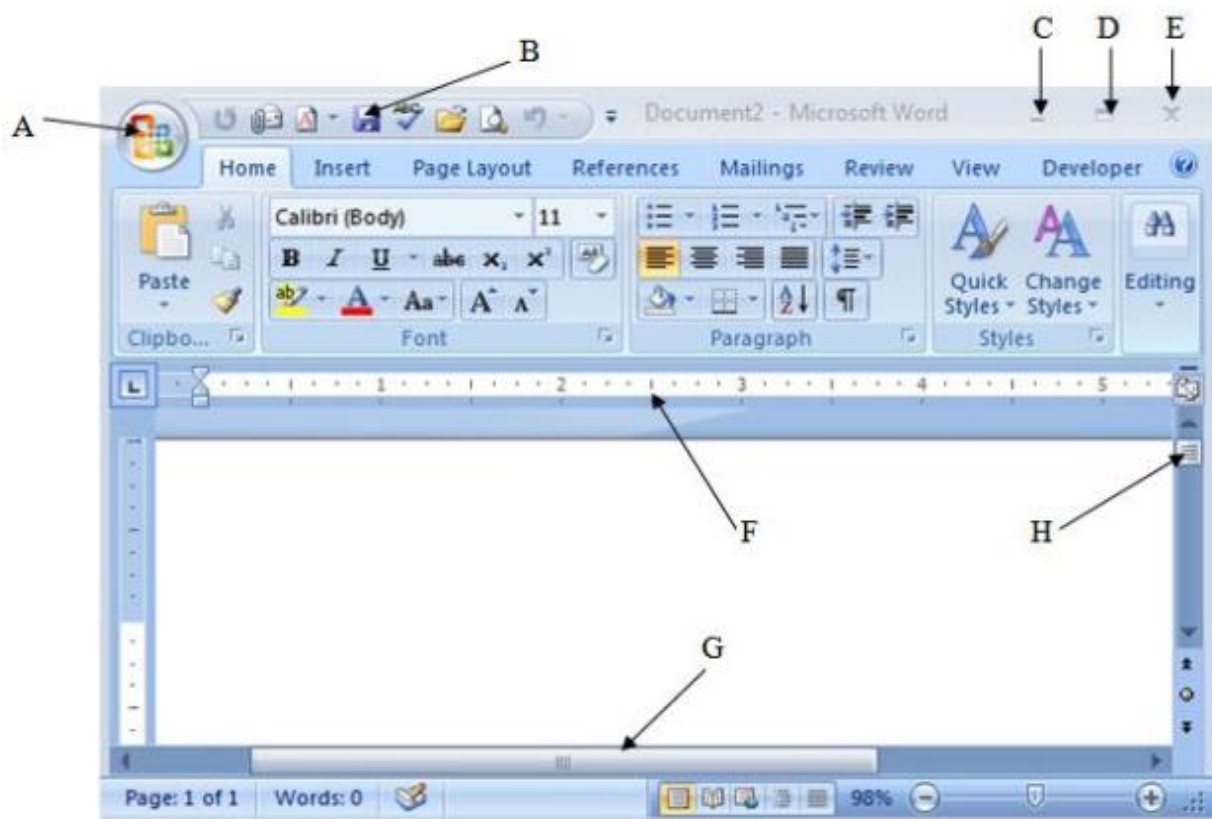
(ii) Explain briefly the function of the following terms as applied in a computer networking (04 marks)

- a) Hub
Central connection point of local area network
- b) Router
 - Forward (or route) data packets between networks.
 - Connect two or more packet-switched networks or subnetworks.
 - Manage traffic between different networks.
 - Allow multiple devices to share an Internet connection.

6. (a) Define the term electronic word processor and give two examples of electronic word processor (1Mark)

word processor is an electronic device (later a computer software application) for text, composing, editing, formatting, and printing eg. ms word

(b) Study carefully the following screenshot of word document window and answer the questions below.



(i) What will happen to this program if the user clicks the button shown by letter B? (01 mark)

➤ **Saving document**

(ii) What letter A, C, D, E and F above represents: (2.5 marks)

A office button

C. Minimize

D. Maximize

E. close

F...ruler

(iii) Mention three (3) bars found on the figure above (1.5 marks)

- **Scrolling bar**
- **Horizontal bar**
- **Vertical bar**

(c) Study carefully at the print dialogue box below and answer the question that follows

Print

Copies: 1

Printer

hp LaserJet 1320 PCL 5
Error: 1 document waiting

[Printer Properties](#)

Settings

Print All Pages
Print the entire document

Pages:

Print One Sided
Only print on one side of the page

Collated
1,2,3 1,2,3 1,2,3

Portrait Orientation

A4
8.27" x 11.69"

Normal Margins
Left: 1" Right: 1"

1 Page Per Sheet

[Page Setup](#)

- (i) The print dialogue box can be opened from the **menu bar** by selecting **Office button** (01 mark)
- (ii) What is the name of the printer selected.
Hp LaserJet 1320 PCL5(01 mark)
- (iii) Explain how to resolve the error shown in printer dialog above
Connect your computer to print pending document (01 mark)
- (iv) Which page orientation printing dialog shows **portrait** (01 mark)

7. (a) What is the difference between a worksheet and a workbook? (02 mark)
- **Worksheets are the building blocks of your Excel workbook files, allowing you to organize and manipulate data. On the other hand, a workbook is an Excel file that contains one or more worksheets.**
- (b) Explain the importance of formatting rows and columns in excel. (02 mark)
- **Make your data easier to read and understand, and it can help you highlight important information.**
- (c) Read the given snapshot and answer the question that follows:

	A	B	C	D	E	F	G	H	I
1	MOREFILL SECONDARY SCHOOL								
2	FORM TWO CSSC EXAMINATION RESULTS								
3	MAY 2024								
4	NAME	CIVICS	MATH	GEOG	BIOS	ICS	TOTAL	AVERAGE	GRADE
5	ENOCK HENONGA	58	98	78	68	58	292	58.4	C
6	AISHI MANULA	89	40	90	10	100	329	65.8	C
7	FARIDI MUSSA	78	49	80	100	90	397	79.4	B
8	JUMA KASEJA	10	15	16	40	60	141	28.2	F
9	JOHN BOCCO	40	60	70	90	80	340	68	C

- (a) Write the name of the program used to create the above document
Ms excel (1Mark)
- (b) Give the name of the active cell **E6**(1Mark)
- (c) Write the formula and the function respectively which would be used to give the subject total in cell G5 =**SUM(B5:F5)** (1Marks)
- (d) The cell I5 contains the formula =IF (H5>=75, "A", IF (H5>=65, "B")). Write the formula would you expect to be contained in I8.
Formula =**IF (H8>=75, "A", IF (H8>=65, "B"))** (2Marks)
- (e) What data is in the cell A6? **AISHI MANULA**(1Mark)

8. (i) Outline three (3) factors to consider when preparing a computer laboratory (3Marks)

- Furniture
- Budget
- Hardware and software

(ii) Why must there be safety rules and precautions in the computer laboratory?

Give two (2) reasons. (02 marks)

- **To prevent distraction of computer tool**
- **Prevent injury to people and damage to computer equipment.**

(b) (i) Define the term computer virus (01 mark)

- **is a type of malicious software, or malware, that spreads between computers and causes damage to data and software**

(ii) Briefly explain why is it important to update computer antivirus several times within a Month? (02 marks)

(c) (i) What is power fluctuation? (02 marks)

is a **measure of the rate at which electrical energy is transferred or consumed.**

(ii) List three (3) devices that are used to protect a computer from the effects of power Fluctuations (1.5 marks)

- **Voltage stabilizer**
- **Uninterruptible power supply**
- **Electrical surge**

9. (a) Mention the technology used and one characteristic for each of the following generations of computers

(i) First generation of computer Technology used: **vacuum tube** (1.5 marks)

Characteristic: **very large in size**

(ii) Third generation of computer Technology used: **integrated circuit** (1.5 marks)

Characteristic: **used high level programing**

(iii) Differentiate between primary memory and secondary storage devices. (02 marks)

Primary storage	Secondary storage
Data is processed directly from storage.	Data must be moved to primary storage.
Provides faster access time.	Slow access time
Has slower storage capacity.	Has higher storage capacity.
Found inside the Central Processing Unit.	Found outside the Central Processing Unit.

(c) (i) Define the term electronic learning. (1 marks)

Learning that is enabled electronically. Typically, e-learning is conducted on the Internet, where students can access their learning materials online at any place and time.

(ii) Give two (2) advantages and two disadvantages of electronic learning (04 marks)

Advantages

1. You are able to link the various resources in several varying formats.
2. It is a very efficient way of delivering courses online.
3. Due to its convenience and flexibility, the resources are available from anywhere and at any time.
4. Everyone, who are part time students or are working full time, can take advantage of web-based learning.
5. Web-based learning promotes active and independent learning.

Disadvantages

1. **Most of the online assessments are limited to questions that are only objective in nature.**
2. **There is also the problem of the extent of security of online learning programs.**
3. **The authenticity of a particular student's work is also a problem as online just about anyone can do a project rather than the actual student itself.**
4. **The assessments that are computer marked generally have a tendency of being only knowledge-based and not necessarily practicality-based.**

SECTION C: (15 Marks)

Answer one (1) question from this section

10. Internet becomes more potential tool now day in our country Explain five (5) services provided by the internet to Tanzania society.

Introduction (3marks)

- Communication services
- File transfer services
- Directory services
- Ecommerce and online transactions.
- Services for network management.
- Search engine services on the web



10marks

conclusion(2marks)