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# Welcome to IGCSE ICT Class

0417/0983

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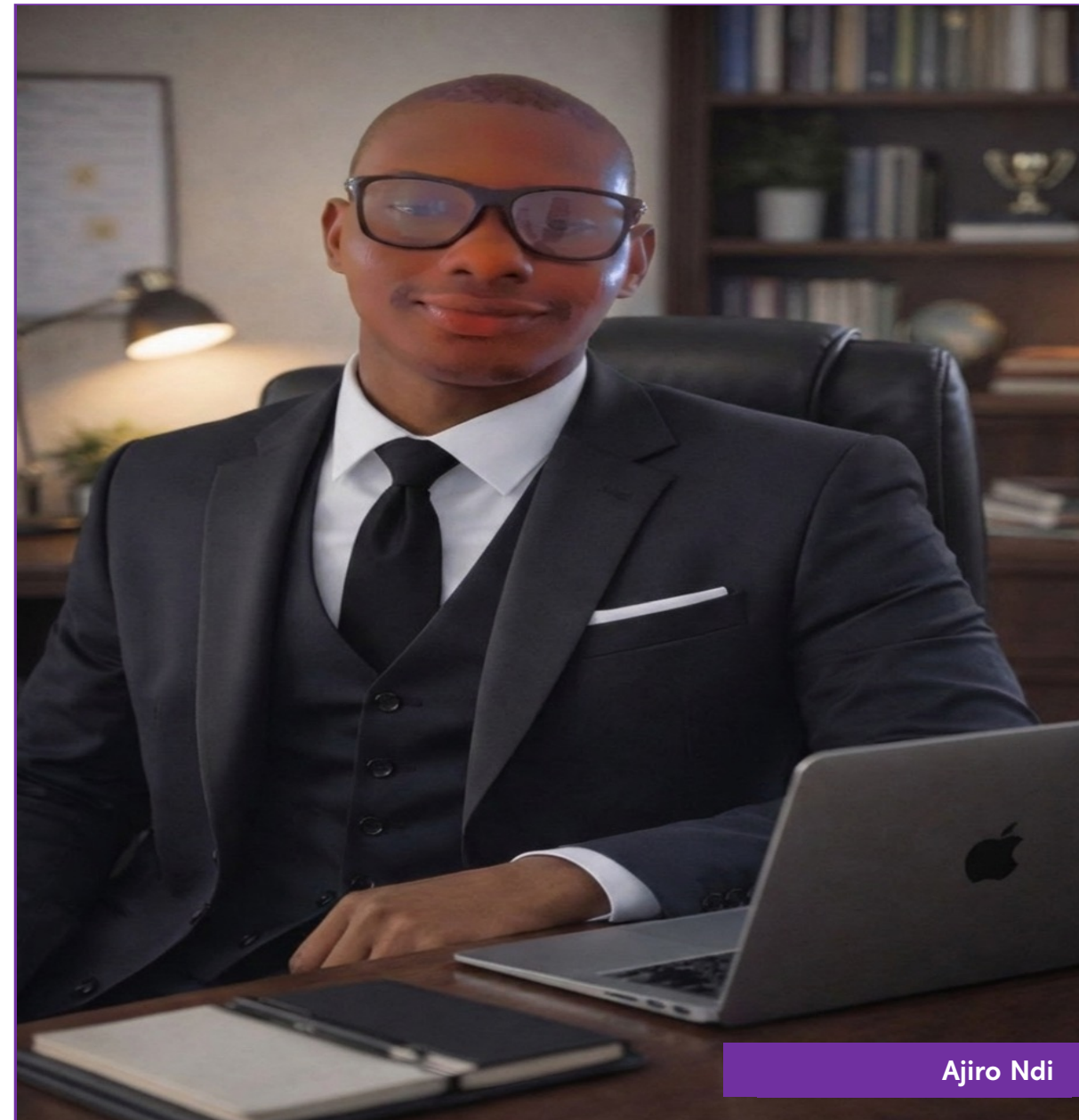
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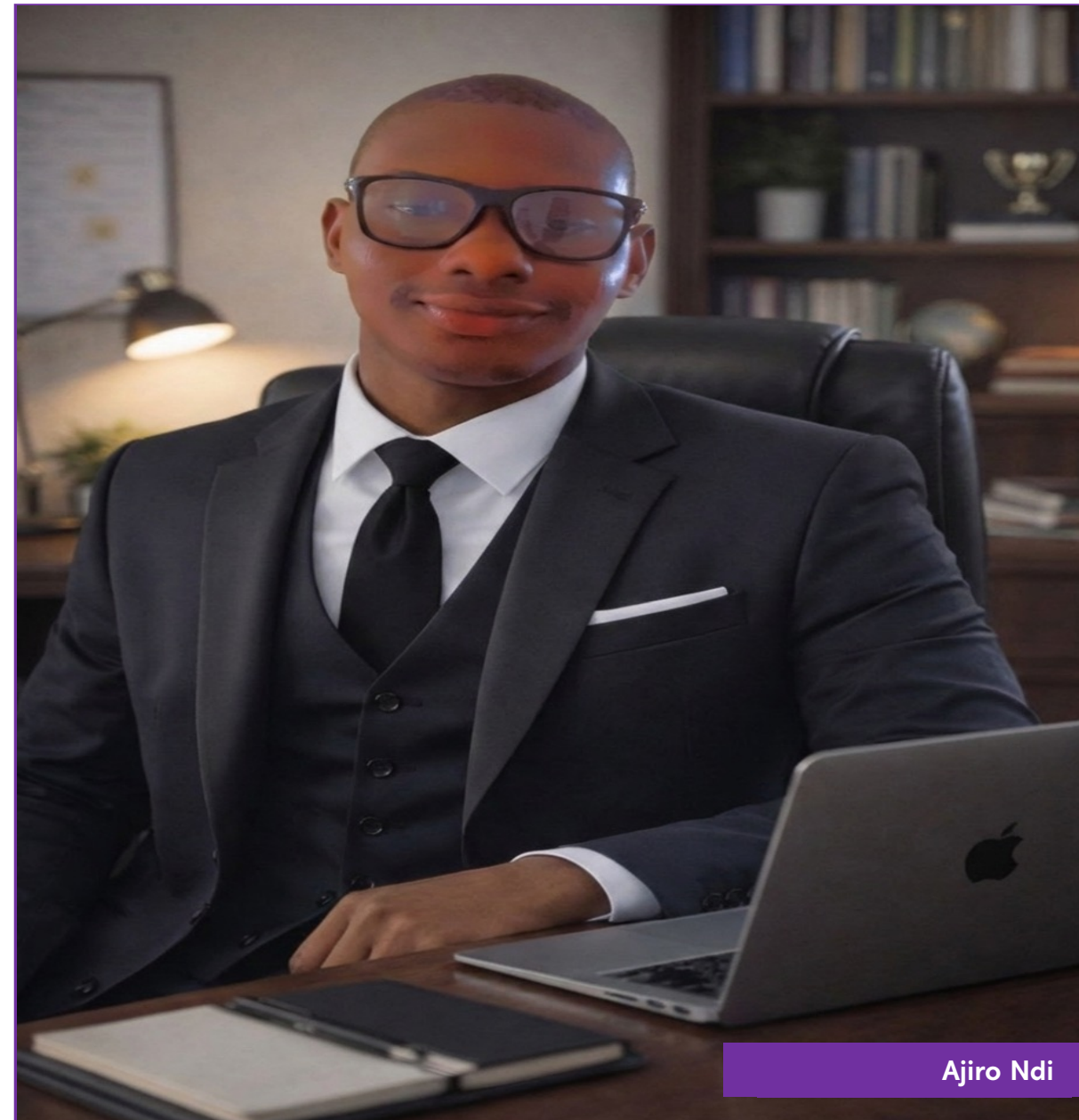


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## Practice Questions and Answers

Q1

Chapter 1: Types and Components of Computer Systems

Circle **two** examples of internal memory.

- |                           |                        |                            |                         |
|---------------------------|------------------------|----------------------------|-------------------------|
| <del>X</del><br>Actuator  | <del>X</del><br>CD-ROM | <del>X</del><br>Hard drive | <del>X</del><br>Mouse   |
| <del>X</del><br>Pen drive | <u>RAM</u>             | <u>ROM</u>                 | <del>X</del><br>SD card |

Random Access Memory (RAM): This is data is temporarily stored when running applications

- It can be written to and read from
- It is a volatile memory

Read Only Memory (ROM)

- used to store information that needs to be permanent in nature
- It contains the configuration data for a computer system
- It cannot be altered and can only be read from

Q2

physical data that changes continuously from one value to the next  
Data can be in two forms, analogue and digital. Discrete data, Computer understands the data in binary format

(a) Complete the following sentences about the different types of data.

(i) The data read by a sensor is

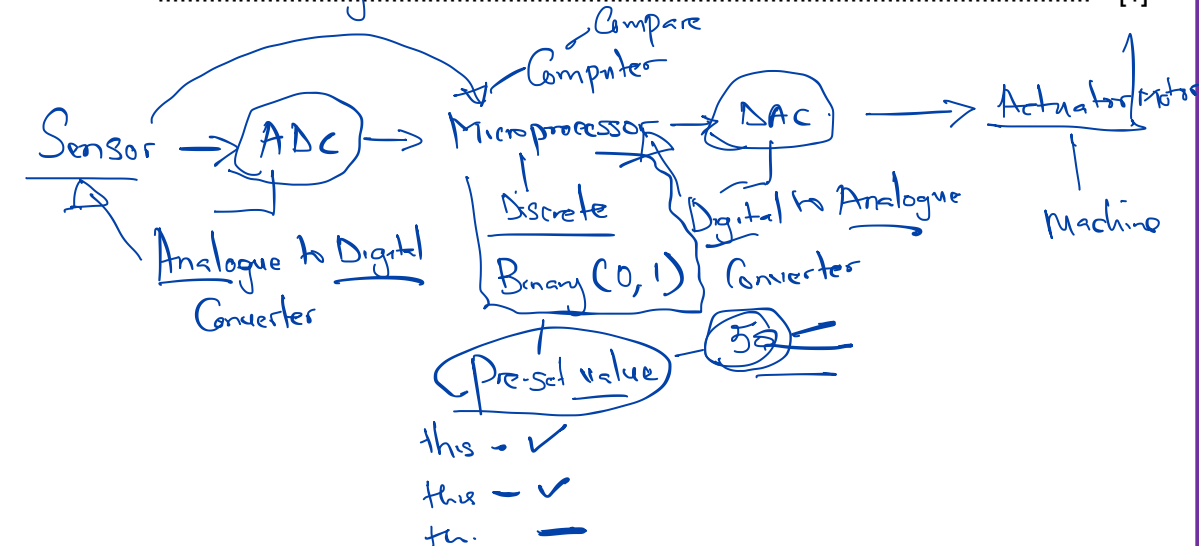
Analogue

[1]

(ii) The data read by a microprocessor is

Digital

[1]



## Practice Questions and Answers

Q2b

— Differences Compare — similarities Chapter 1  
Contrast analogue data with digital data.

| Digital data                      | Analogue                                     |
|-----------------------------------|----------------------------------------------|
| — Discrete data                   | — Continuous data                            |
| — Binary data                     | — Physical data or infinite number of values |
| — Understood by the Computer 0, 1 | — Requires high bandwidth                    |

## Practice Questions and Answers

Q3a

Chapter 7 : Design phase (SLC)

A headteacher has decided that all pupil reports are to be typed into a computer. He has asked the computer technician to design a layout for a pupil report. Describe five features of a well-designed report layout.

Logo School heading

Name:

Class:

Position

DOB:

Subject

Remarks

Heading must relate to the report

Font style that is easy to read

Font size should be large enough to be easily read

Contrasting colours to make it easily read

All data must be fully visible

## Practice Questions and Answers

**Q3b**

The report will be linked to a database. One of the fields in the database is date of birth. An example of the data found in this field is 30/01/2010. DD/MM/YYYY (Chapter 7 - Design (SSE))

State two validation checks that could be used to validate the data in this field.

- Format check
- Type check or character check

## Practice Questions and Answers

**Q3c**

One way of testing the data in this field is to use different types of test data. The first piece of test data used is acceptable data. State which type of test data is acceptable. (Chapter 7: DST (Development and Testing))

- Normal data

- Normal  
- Abnormal  
- Extreme - boundary of acceptability or validity first or last

error rejected

## Practice Questions and Answers

Q4

A design company is planning to buy either a laser printer or a plotter. Compare and contrast a laser printer with a plotter.

### Similarities

- Both are output devices
- Both produce or print high quality output
- Both produce hard copy

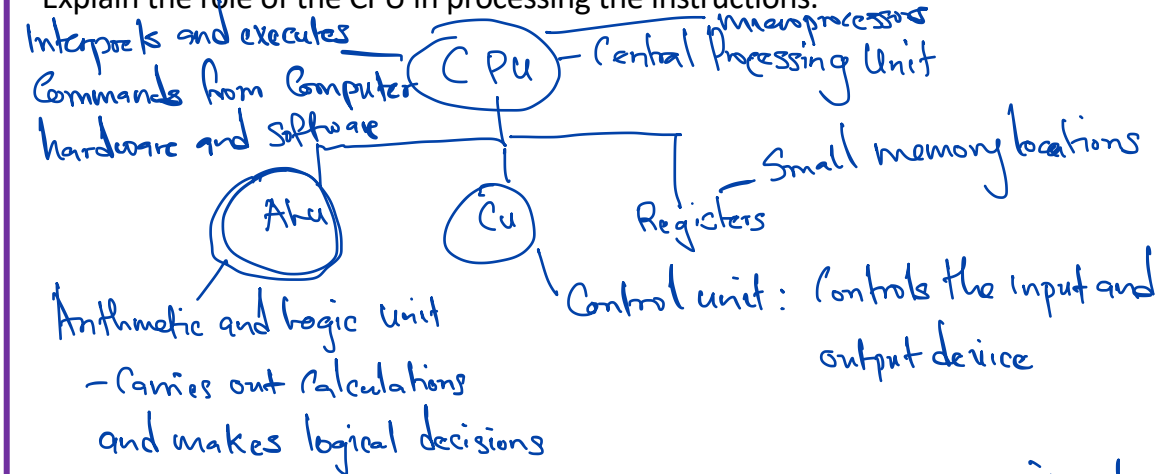
### Differences

- laser printers are page printers
- laser printer emit ozone radiation which is not safe to the health
- Plotters produce higher quality drawings
- plotters uses ink whereas laser printers uses toner
- plotters can print on a number of different materials

## Practice Questions and Answers

Q5

Instructions are entered into a computer and processed to produce an output. Explain the role of the CPU in processing the instructions.



- It manages and coordinates all of the computer peripherals
- It fetches instructions from memory
- It interprets instructions from memory
- Performs logic operations
- Performs calculations
- Controls the operations of the computer

## Practice Questions and Answers

Q6a

*Chapter 1 - Types of Computer*  
A school is planning to create a computer suite in its library. The headteacher is considering using desktop computers or mobile computers.

Discuss the benefits and drawbacks of the headteacher choosing desktop computers.

### Benefits

- Easily expandable
- Stable internet access
- less likely to be damaged as they are fixed in one location
- Better dissipation of heat
- Less chance of the desktop being stolen as peripherals are separate

### Drawbacks

- less portable as they are built up of separate parts
- Can lead to tripping hazard as they are trailing wires around the library
- Needs to be constantly connected to electricity to use

## Practice Questions and Answers

Q6b

The headteacher is planning to use the computers for computer aided learning (CAL).

Explain what is meant by computer aided learning (CAL).

- CAL is an integrative technology
- CAL uses specially designed software
- CAL assist pupil in learning a particular subject

### Practice Questions and Answers

Q6c

Describe three features of CAL.

- Chapter 6

- Tests the user
- Give Score or grade to the user
- Allows Interactive learning
- Allows users to be able to work at their own space
- Users or students are able to move forward and backward through the course
- It records learner's performance
- Tailored to the user or student

### Practice Questions and Answers

Q7a

Tawara is an online shopping company. - Chapter 6:  
Describe the characteristics of online shopping.

- Online stores are open 24/7
- They are accessed through a website
- Use online payment method
- Easy to compare prices
- Uses reviews to know about a product
- Wide choice of goods
- you can shop from anywhere

## Practice Questions and Answers

**Q7b** Discuss the impact of using Artificial Intelligence (AI) in online shopping.

Positive

- It can learn and adapt to user's needs
- Give customers a personalised service
- Predicts customer's purchasing behaviour

Negative

- Can influence purchasing
- It can track customer's purchasing of items
- It can lead to security issues as the customer's browsing history are stored on the internet

## Practice Questions and Answers

**Q7c**

Chapter 3 : Prolonged use of IT equipment

The use of computer equipment can lead to many different health issues.

For each of the following health issues, describe **three** different ways of minimising the risk.

(i) eyestrain

1. Use anti-glare screen
  2. Change screen brightness to match the room brightness
  3. Do not sit too close to the screen
- Have your eyes tested regularly

(ii) back problems

(Back and Neck strain)

1. Use ergonomic chair
2. Use a footrest to reduce posture problems
3. Use tiltable screens, raised to the correct height, to ensure the neck is at the right angle

### Practice Questions and Answers

Q8a

A company uses the cloud to store data and software. <sup>Chapter 4</sup>  
Explain what is meant by the term cloud.

- A network of remote servers
- Examples of cloud storage are public cloud, private cloud, hybrid cloud

### Practice Questions and Answers

Q8b

Access to the cloud is via the internet. <sup>Chapter 10 - Communication</sup>  
Describe the characteristics of the internet.

- It does not belong to anyone
- Anyone can create or share resources on the internet
- Gives access to the world wide web
- It is a wide Area Network
- Gives access to a large amount of resources
- It can be accessed using an internet connection
- It offers information 24/7
- It is accessible to all.

## Practice Questions and Answers

Q9a

An employee in an organisation has been working at home and has saved a file on his portable hard disk drive (HDD). He takes the portable HDD into the office.

Describe the process of safely uploading the file onto the organisation's network. Include in your answer any issues that may occur and how they can be avoided.

- log onto the network
  - The employee should then plug the portable HDD into the computer
  - The employee scans the portable HDD for any form of viruses
  - Then select the files
  - Copy the files and paste onto the computer
  - The employee should verify the files has been correctly transferred
- 
- Issues:
- If the file cannot be found, check to make sure it's uploaded to the correct folder.
  - If the portable HDD contains a virus, it should delete the file

## Practice Questions and Answers

Q9b

### Chapter 3 - Storage devices and media

State **one** example of each of the following types of storage media.

(i) optical

CD, DVD, Blu-ray

(ii) solid-state

Pen drive, Memory card (SD card, XD card, CF card)

## Practice Questions and Answers

Q9c

<sup>Chapter 9 - Audience</sup>  
Data within the organisation needs to be protected. The organisation follows data protection legislation.

Explain why data protection legislation is required.

- To protect the rights of the individual
- To ensure the individual's data is used properly

## Practice Questions and Answers

Q10a

Phishing can be a threat to the data stored on computer systems. Describe what is meant by the term phishing.

- The sender tries to trick the receiver into revealing personal information
- The email from the sender may contain links to a fake website
- The receiver clicks on the link and is directed to the fake website
- Phishing is a form of internet fraud

## Practice Questions and Answers

Chapter 8 - Safety and Security

Q10b

State three ways in which a user can attempt to prevent phishing attacks

- Never Send personal details in an email
- Do not respond to emails from people you do not know
- If the content of the email is too good to be true, then delete it
- Report any phishing attempts
- Do not click on links contained in possible phishing emails

## Practice Questions and Answers

Chapter 21 - Website Authoring

Q11

A student is creating a web page using HTML. She has coded the head section.

State the purpose of the head section. Include in your answer one element found in the head section.

```
<!DOCTYPE html>
<html>
<head>
  <title> Ajiro Tech </title>
  <link href = "url" rel = "stylesheet" type = "textless">
  <meta name = "author" content = "Ajiro Ndi">
  <style> </style>
  <base target = "_self">
</head>
```

- Contains information about a web page properties
- Contains links to the external related files  
one element
- Title of the web page

## Practice Answers

Additional Pages

## Practice Answers

Additional Pages

## Practice Answers

Additional Pages

## Practice Answers

Additional Pages

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