



## IT Midterm Study Guide - Grade 5

This guide will help you prepare for your midterm exam. Follow these sections and tips to be fully prepared.

### Lesson 1: Discovering Computer Software

To get the best results, focus on understanding the following points:

#### 1. Key Hardware Components:

You must know the function of each main part of the computer.

- **CPU (Central Processing Unit):** Think of this as the "brain" of the computer; it is responsible for carrying out commands.
- **Motherboard:** This is the main board that connects all the important parts of the computer together.
- **Memory:** Its job is to keep information inside the computer.

**Study Tip:** Try to explain the function of each part in your own words. Practice the matching exercises between the part and its function, like in questions 1 and 2 of the review sheet.

#### 2. Types of Software:

Software is divided into two main types. It is very important to know the difference between them.

- **System Software:**
  - **What is it?** This is the software that manages and controls the computer itself. The computer cannot work without it.
  - **Examples to know:**
    - **Operating System (OS):** This controls the entire computer , like **Microsoft Windows**.

- **Device Driver:** This helps the computer understand a new device you have plugged in.
  - **System Utility:** This helps with computer maintenance, like clearing unnecessary files.
- **Application Software:**
  - **What is it?** This is the software that we use to perform specific tasks, like writing, drawing, or playing games.
  - **Examples to know:**
    - **Microsoft PowerPoint:** Software that lets you make presentations with pictures and text.
    - **Microsoft Word.**
    - **Web Browsers** like Google Chrome.

**Study Tip:** Create a simple table to compare system software and application software based on their purpose and an example of each. Refer to question 6 for an example.

### 3. Hardware vs. Software:

- **Hardware:** The physical, tangible parts of a computer (e.g., screen, mouse, CPU).
- **Software:** The non-physical programs and instructions that tell the hardware what to do (e.g., Windows OS, games, Microsoft Word).

**Study Tip:** Look at the electronic devices around you. Try to classify their components as either hardware or software. Practice with question 7.

### 4. Other Important Concepts:

- **Programming Tools:** These are tools that use programming languages for writing code.
- **Data Transmission (Packets):** Think of it like sending a large picture to a friend. The internet cuts it into small pieces (packets) and sends them. When they arrive at your friend's device, they are reassembled, just like a **jigsaw puzzle**.

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## General Exam Tips:

- **Read Questions Carefully:** Before you answer, make sure you understand the question well.
- **Don't Leave a Question Blank:** Try to answer every question, even if you are not completely sure.
- **Review Your Answers:** If you have time at the end, review your answers one more time before submitting.

Good luck with your exam!

You are all capable of achieving great results.