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Grupo A

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English

“Cybersecurity”

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Fecha de entrega

“21/11/2025“

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a. Introduction

The video “*What is Cybersecurity?*” explains in a simple way what cybersecurity is and why it is important. Cybersecurity means protecting computers, networks, and information from people who want to steal or damage them. Today, we use the internet all the time, so learning about cybersecurity is very important for everyone.

b. Development

Cybersecurity has three main goals.

The first goal is prevention. This means stopping attacks before they happen. For example, people use strong passwords, firewalls, and secure systems to protect information.

The second goal is detection. This means finding problems or attacks quickly. Special programs can watch the network and tell us when something strange happens.

The last goal is response. This is what we do after a cyberattack. Experts act fast to fix the problem, protect the data, and make sure the attack does not happen again.

There are also different areas of cybersecurity.

Network security protects the connections between computers.

Application security protects software and checks that it works safely.

Information security protects important data so only the right people can see it.

There are other areas too.

Cloud security protects data that is stored on the internet (in the cloud).

Endpoint security protects devices like phones and laptops.

Operational security uses rules and policies to keep information safe and control who can access it.

Cybersecurity protects us from common digital attacks.

One type of attack is malware, which is harmful software like viruses.

Another type is ransomware, which locks your data and asks for money to unlock it.

There is also phishing, where attackers send fake messages to trick people into giving their personal information.

These attacks can cause many problems, like losing money or important data.

Cybersecurity is very important for companies and people. It helps protect customer information, keeps systems working, and builds trust. It is also important for people at home, helping protect their identity and personal devices.

Cybersecurity also offers many job opportunities. Companies need security experts, so careers like security analysts or penetration testers are growing.

c. Conclusion

Cybersecurity protects our digital world. It uses prevention, detection, and response to keep information and systems safe. Because cyber threats continue to grow, learning about cybersecurity is important for everyone. People who work in this field can have a strong and meaningful career.