An Introduction to Cyber Security

# 1. What is the meaning of Cyber Security?

Cyber security refers to the practice of protecting systems, networks, and programs from digital attacks, unauthorized access, or damage.

# 2. What are the main objectives of Cyber Security?

The main objectives are to ensure confidentiality, integrity, and availability of information, as well as to prevent data breaches and cyber threats.

# 3. What is Offensive and Defensive in Cyber Security?

Offensive cyber security involves proactive measures to attack or disrupt cyber threats, while defensive cyber security focuses on protecting systems from such attacks.

# 4. What is Cyberspace and Law?

Cyberspace is the virtual environment of computer networks. Cyber law refers to legal regulations that govern the use of the internet and digital technologies.

# 5. What is Cyber Welfare?

Cyber welfare refers to initiatives and measures aimed at ensuring safe, secure, and equitable access to digital resources and online well-being.

# 6. Explain the Types of Hackers

Types of hackers include: White Hat (ethical hackers), Black Hat (malicious hackers), Grey Hat (a mix of both), Script Kiddies, Hacktivists, and State-sponsored hackers.

# 7. What is the Full Form of SOC in Cyber Security?

SOC stands for Security Operations Center.

# 8. What are the Challenges of Cyber Security?

Challenges include evolving threats, lack of awareness, weak security policies, insider threats, and limited resources.