## **Module 1 CS- Introduction:**

**1. What is the meaning of cybersecurity?**

**ANS**:Cybersecurity is about protecting computer systems, networks, and data from unauthorized access, use, disclosure, disruption, modification, or destruction. It's like safeguarding your digital world.

**2. What are the main objectives of cybersecurity?**

**ANS**:The main goals of cybersecurity are to keep information private (confidentiality), accurate (integrity), and available when you need it (availability).

**3. What is offensive and defensive in cybersecurity?**

* **Offensive cybersecurity** is like studying how attackers work to understand their tactics and improve defenses.
* **Defensive cybersecurity** is about putting measures in place to protect systems and data from attacks.

**4. What is cyberspace and low?**

* **Cyberspace** is the digital world where computers, networks, and the internet connect.
* **Low** is probably a mistake. If you meant "law," it refers to the rules and regulations that govern cybersecurity.

**5. What is cyber welfare?**

**ANS**:Cyber welfare is about promoting well-being in the digital age. It includes online safety, ethical behavior, and addressing the social and psychological impacts of technology.

**6. Explain the Types of Hacker**

* **White hat hackers** are like digital detectives who find vulnerabilities in systems to help improve security.
* **Black hat hackers** are malicious individuals who exploit vulnerabilities for harmful purposes.
* **Gray hat hackers** are a mix of both, sometimes acting ethically and sometimes not.

**7. What is the full form of SOC in cyber security?**

**ANS**: SOC stands for **Security Operations Center**. It's a team that monitors networks and systems for security threats.

**8. What are the Challenges of Cyber Security**

Some big challenges in cybersecurity include:

* **Evolving threats:** New threats and attack methods are constantly emerging.
* **Complex systems:** Modern technology can be complicated to secure.
* **Human error:** Mistakes by users can create security risks.
* **Shortage of experts:** There aren't enough skilled people to protect all systems