

# **CYBER SECURITY ASSIGNMENT QUESTION**

## **DAY 30**

- 1. Describe modern encryption methods used to secure data in transit and at rest. Discuss the difference between symmetric and asymmetric encryption algorithms.**
- 2. Compare encryption features and implementations in Windows and Linux operating systems. Discuss built-in encryption tools and third-party solutions available for data protection.**
- 3. Define hashing and explain its role in data integrity verification and password storage. Discuss common hashing algorithms and their security properties.**
- 4. Discuss advanced features and protocols used in Virtual Private Networks (VPNs) to enhance security and privacy. Explain the concept of VPN tunneling and VPN concentrators.**
- 5. Outline strategies for optimizing VPN security and performance in enterprise environments. Discuss challenges related to VPN scalability, bandwidth utilization, and endpoint security.**