CYBER SECURITY ASSIGNMENT QUESTION

DAY 75

1.Explain the importance of real-time cryptography in modern digital systems. Discuss how cryptographic algorithms and protocols are utilized to ensure data security, integrity, and confidentiality in real-time applications.

2. Discuss the challenges and considerations in implementing real-time cryptographic solutions. Explain how factors such as performance, latency, scalability, and resource constraints impact the design and deployment of cryptographic algorithms and protocols in real-time applications.

3.Explain how real-time cryptography is applied in secure messaging applications. Discuss the cryptographic techniques and protocols used to ensure end-to-end encryption, message authentication, and forward secrecy in real-time messaging platforms.

4.Discuss the role of real-time cryptography in securing financial transactions and payment systems. Explain how cryptographic algorithms and protocols are used to protect transaction data, authenticate users, and prevent fraud in real-time banking and payment applications.

5. Explain how real-time cryptography is utilized in IoT devices and sensor networks. Discuss the challenges and security considerations in implementing cryptographic solutions for securing data communication, device authentication, and access control in real-time IoT environments.