**Assignment 03**

**Total Marks: 20 Cyber Security**

**Scenario 1:**

You are the network administrator for a medium-sized company. The company recently experienced a security breach where an attacker gained unauthorized access to sensitive customer data. The management is concerned about the security of the network and wants to ensure such incidents are prevented in the future.

**Q1:** What network security measures would you recommend implementing to prevent unauthorized access to sensitive data?

**Scenario 2:**

You are an IT consultant working for a small healthcare clinic. The clinic recently upgraded its wireless network to provide guest Wi-Fi access for patients. The management is concerned about the security of the wireless network and wants to ensure patient data privacy.

**Q2:** How would you secure the wireless network to protect patient data and ensure the privacy of wireless communications?

**Scenario 3:**

You are a network security analyst for a financial institution. The company recently experienced a distributed denial-of-service (DDoS) attack that caused significant disruption to its online banking services. The management wants to improve the company's resilience to future DDoS attacks.

**Q3:** What measures would you recommend implementing to enhance the company's resilience against DDoS attacks?