Question 7

1. Explain what a cryptography file system is.

Specialized file systems designed specifically for encryption

Encrypt all data including metadata

Usually operate on top of existing file systems.

1. Explain what deniable encryption is.

Allows an encrypted message to be decrypted into several readable plaintexts.

Depends upon the key used to decrypt the file.

1. Brief describe how the Encrypting file system (EFS), as used by MS windows, encrypts files.
2. State who is able to open EFS files.

The user who encrypted them. A designated recovery agent. Other authorized user accounts.

Not include

Question 5

1. Define network security vulnerability
2. State Three possible consequences of an attacker successfully exploiting a network security vulnerability.
3. Are network security vulnerabilities common? Provide some evidence for your answer
4. Describe five methods that can be used to reduce the likelihood of network security vulnerabilities being exploited.

Question 6

1. Briefly describe what a smartcard is.
2. State four applications that use smartcards for authentication purposes.
3. State three advantages of using smartcards for user authentication.