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- Which security service can assure a sender that people other than the receiver cannot see the content of a message sent from the sender?

Ans. **Data Confidentiality.**

- Which security service can provide the identity of the sender?

Ans. **Authentication.**

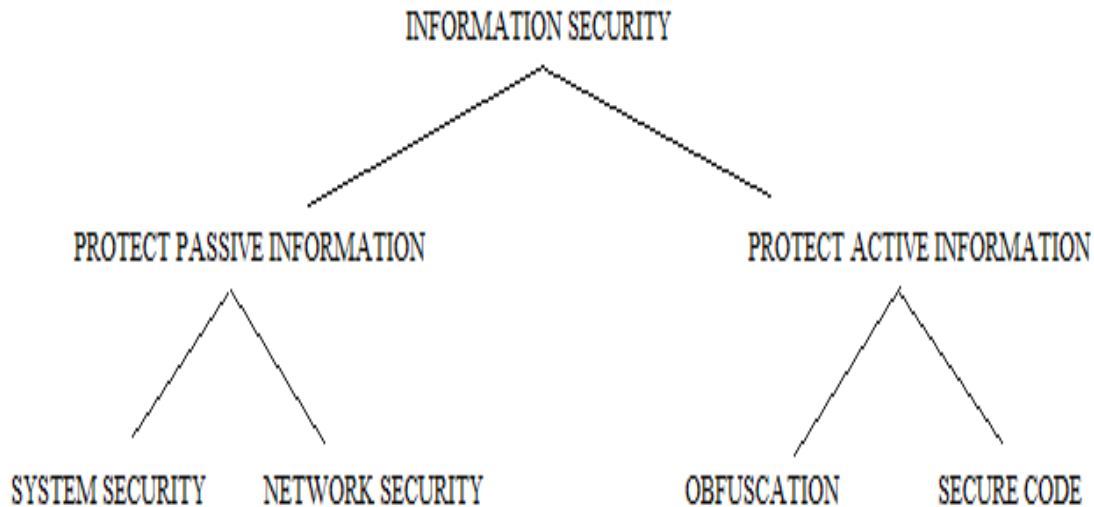
- Which security service can assure the receiver that the message the receiver has received is identical to the one which the originator sent?

Ans. **Data Integrity.**

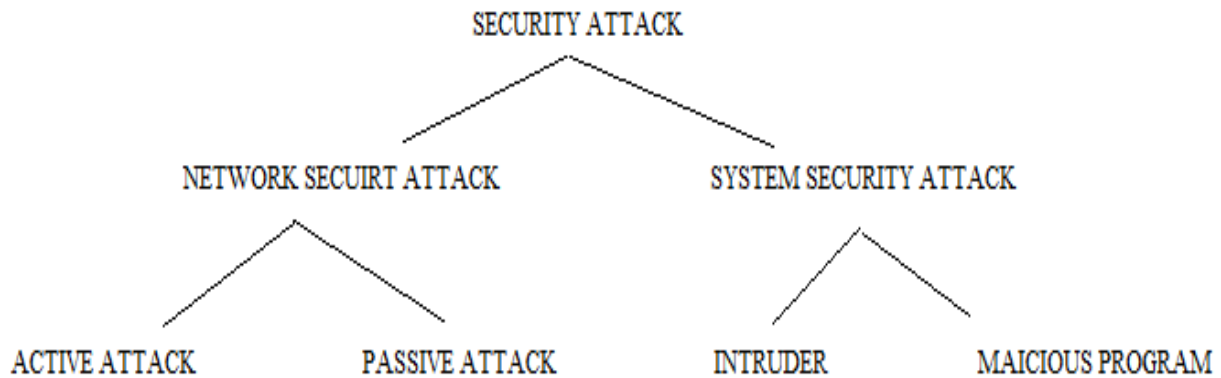
- Which security service can assure the receiver that the sender cannot deny sending a message and/or claim to have sent a different one?

Ans. **Non-Repudiation.**

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- Which US government agency is the Big Brother which controls whether a security algorithm can be exported?
  - a. FBI
  - b. CIA
  - c. NSA

**Ans: NSA**

- What are the three aspects of information security?
  - a. Network Attack, System Attack, and Virus Attack
  - b. Security mechanism, security service, and security attack
  - c. Asymmetric Key Cryptography, Symmetric Key Cryptography and Data Mining

**Ans: Security mechanism, security service, and security attack**

- What are the two major types of security attack?
  - a. Network Security Attack, and Virus Attack
  - b. System Security Attack, and Virus Attack
  - c. Network Security Attack and System Security Attack
  - d. None of above

**Ans: Network Security Attack and System Security Attack**

- Which of the following data does not need to be sent via out-of-band channel?
  - a. public key
  - b. secret key
  - c. key for creating MAC

**Ans: public key**

- Who invented public key cryptography?
  - a. Ray Ozzie
  - b. Diffi Whit
  - c. Phil Zimmermann
  - d. Ron Rivest
  - e. Len Adleman

**Ans: Diffi Whit**

- Postcard putting inside a see-through windows envelope achieve what service?
  - a. Authentication
  - b. Confidentiality
  - c. Integrity
  - d. Authorization
  - e. Auditing
  - f. Non-repudiation

**Ans: Integrity**

- Human DNA corresponds to which of the following electronic security mechanism?
  - a. Public key
  - b. Private key
  - c. Message Digest
  - d. Symmetric key
  - e. Digital certificate

**Ans: Message Digest**

- Passport corresponds to which of the following electronic security mechanism?
  - a. Public key
  - b. Digital certificate
  - c. Private key
  - d. Message Digest
  - e. Symmetric key

**Ans: Digital certificate**