Cryptography



Unit-1 1) Caesar, Hill, Playfair and Rail fence apher for encryption n 2) Vernam Cipher from Time Pad for short note 3) Symmetric VS. Assymetric Ophers. 1) De finition only for Substitution technique, transportation technique monoalphabetic cipher, polyalphabetic ciphes ()nil 1) Extended Euclidean Algorithm. 2) Finding Multiplicative inverses 3) Calculating results of polynomial over 61F(2) 4) Round operations in IDEA 5) Advanced Encryption Standard (AES) Units 1) Miller - Rabin Primality Testing 2) Fermats theorem, Eulers totient function, Eulers theorem 3) D-H Key Exchange, Man-In-the-Middle Attack, RSA algorithm Unit-4 1) One way property of hash function.
2) Message Digests Version 4 (MD4).
3) Signature, DSS and RSA approach for digital signature. 1) Authentication system, Challenge Response System, Kerbras Protoco 1) Concept of PKI trust model, SSL Protocol, Firewalls

1) Verus vs. Worm vs. Trojan Horse, IDS