

Cryptography and Network Security

Branch - CSE, 6th sem

Q-1. Answer All. (2x10)

(a) What is hashing function?

(b) What is Cryptography?

(c) What kind of threats exist for a cryptographic system?

(d) Define Network Security?

(e) What do you mean by cipher text only attack?

(f) Name the two signature schemes that are used in cryptography.

(g) Define private key management.

(h) Define Authentication.

(i) What is Trusted system?

(j) Define cryptography.

Q-2. Answer Any Six. (6x5)

(a) Differentiate between Symmetric and asymmetric key cryptography.

(b) What is Authentication? Why it is needed?

(c) What is Cryptography? Write some major applications of cryptography in modern world.

(d) What is Secure Electronic Transaction? Write some feature of SET.

(e) Explain Firewall design principle in detail.

- (7) What type of information can be secured with cryptography? Explain.
- (8) What are the specific components of public key infrastructure?

Answer any two. (10x2)

- (3) Describe RSA algorithm and estimate the encryption, decryption values for RSA algorithm.
- (4) Describe Digital signature algorithm and show how signing and verification done using DSS.
- (5) Define virus? Explain in detail.