

CRYPTOGRAPHY AND NETWORK SECURITY

(Code : CST-603)

Full Marks : 70

Time : 3 hours

Answer any five questions

Figures in the right-hand margin indicate marks

1. (a) Distinguish between Encryption and Decryption. 2
- (b) Explain the comparison between Symmetric and Asymmetric key cryptography. 5
- (c) Define SSL. Explain how SSL works. 7
2. (a) What is Time stamping protocol ? 2
- (b) Describe Biometrics Authentication. 5
- (c) What do you mean by DES ? Explain how DES works. 7

(Turn Over)

(2)

3. (a) What are different types of Modern nature of Attack? 2
- (b) Distinguish between Symmetric and Asymmetric key cryptograph. 5
- (c) Explain Secure Electronic Transaction. Describe the SET process. 7
4. (a) Define password. What do you mean by Plain Text Password? 2
- (b) State and explain the RSA algorithm. 5
- (c) Describe Virtual Private Network. Describe VPN architecture. 7
5. (a) Define IP Security. 2
- (b) Explain Digital Certificate. What are certificate creations steps involve in it? 5
- (c) Define Authentication Token. Explain the features of Authentication Token. 7
6. (a) Distinguish between Plain text and Cipher text. 2

(3)

- (b) Explain Private Key management. 5
- (c) Define Firewalls. Describe different types of Firewalls. 7
7. (a) Distinguish between Static Web Page and Dynamic Web Page. 2
- (b) Explain the principle of security. 5
- (c) Write short notes on any two : $3\frac{1}{2} \times 2$
- (i) TCP/IP
- (ii) Smart Card
- (iii) PKIA Model
- (iv) Digital Signature.