

VI- SEM /IT/CSE/2019(W)/NEW**CST-603-C&N SECURITY**

Full Marks: 80

Time : 3 Hours

Answer any Five Questions including Q No. 1 & 2

Figures in the right hand margin indicates marks

Q.1	Answer ALL the questions: a) Define attack? List the types of attack. b) What do you mean by plaintext and cipher text? c) List out some Transposition techniques. d) List down some functions of firewall. e) What is VPN? f) What are the major threats to Data or Information? g) What is the role of hash function in cryptography? h) What do you know about Vernam Cipher? i) How authentications vary from authorization? j) Define Encryption and Decryption.	2X10
Q.2	Answer any SIX questions: a) Explain Digital Signature algorithm. b) Write the difference between block cipher and stream cipher. c) Write the procedure of DES algorithm. d) Write short notes on i) SHTTP ii) Secure Socket Layer e) Describe the principle of security f) List down difference between substitution and transposition techniques. g) Briefly describe the certificate based techniques of authentication.	5X6
Q.3	Describe Asymmetric key cryptography with RSA algorithm.	10
Q.4	What is the role of SET protocol in Internet Security? Describe in detail.	10
Q.5	Explain the layering architecture of TCP/IP.	10
Q.6	What do you mean by secret key cryptography and Public Key Cryptography? How they are different from one another?	10
Q.7	Write short notes on i) PKIX Model ii) Biometric Authentication	10