

GUJARAT TECHNOLOGICAL UNIVERSITY**MCA - SEMESTER- V EXAMINATION – WINTER 2019****Subject Code: 2650002****Date: 25/11/2019****Subject Name: Network Security****Time: 10:30 AM TO 01:00 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1 (a) Draw and explain the general format of X.509 certificate. 07
(b) List and briefly define the SSH protocols. 07
- Q.2 (a) Draw and explain the model for network security. 07
(b) Explain RC4 stream cipher algorithm. 07
- OR**
- (b) Explain RSA public key encryption algorithm. 07
- Q.3 (a) What is outbound and inbound packet? Draw the processing model for 07
outbound packets and inbound packets.
(b) Explain IEEE802.11 services. 07
- OR**
- Q.3 (a) Draw and explain the general format of PGP message. 07
(b) Explain distributed intrusion detection system. 07
- Q.4 (a) Explain types of firewall. 07
(b) Explain message authentication using one way hash function. 07
- OR**
- Q.4 (a) Draw and explain PKIX architectural model. 07
(b) Explain SSL record protocol operations. 07
- Q.5 (a) Explain WAP architecture. 07
(b) Explain Cipher block chaining mode. 07
- OR**
- Q.5 (a) Explain the basic combinations of security associations. 07
(b) Explain password selection strategies. 07
