DARSHAN INSTITUTE OF ENGINEERING & TECHNOLOGY



Semester 6th | Lab Work | Information Network Security (2101CS622)

RSA Algorithm:

- 1. P and Q are two prime number. P=7 and Q=17. Take public key E=5. If plain text value is 6, then what will be cipher text value according to RSA algorithm? Again calculate plain text value from cipher text.
- 2. In each of the following, the two prime number p and q, and the message M to be encrypted using RSA are given. For each case, determine the private and public key and the encrypted message show the steps:
 - a) P=7, Q=11, M=6
 - b) P=11, Q=13, M=9
 - c) P= 17, Q=31, M=5