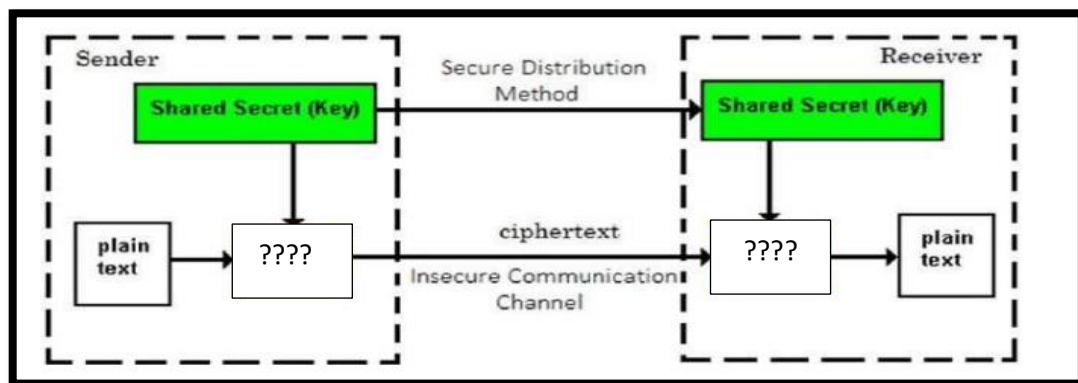


- 1) Explain various principles of security.
- 2) Difference between Active attack and passive attack.
- 3) List and explain different categories of security services.
- 4) List and explain different categories of Security Mechanisms.
- 5) State any four Virus Countermeasures.
- 6) List and Explain the basic approaches of Cryptography are Substitution and Transposition Techniques.
- 7) Define the following terms: -
 - ◆ Brute force attack
 - ◆ Cryptanalysis
- 8) Explain Playfair Cipher Encrypt the plain text "SECRET MESSAGE" by
- 9) using keyword "PROBLEM".
- 10) Difference between Symmetric key cryptography and Asymmetric key cryptography.
- 11) Difference between Stream Cipher and Block Cipher.
- 12) Explain different types of algorithm modes in details.
- 13) Explain the working of DES Algorithm.
- 14) State the working of RSA algorithm?
- 15) Differentiate between Public Key Cryptography and Private Key Cryptography.
- 16) Using RSA algorithm, find the value of cipher text C, if the plaintext M = 5, p = 3, q = 11, d = 7.
- 17) Differentiate between Symmetric Key encryption and Asymmetric Key encryption.



- 18) Elaborate Digital Signature Standard with its Algorithm.
- 19) Difference between Pretty Good Privacy and S/Mime
- 20) How can Pretty Good Privacy ensure Email security?

