PARUL INSTITUE OF ENGINEERING AND TECHNOLOGY

COMPUTER SCIENCE AND ENGINEERING DEPARTMENT

Subject Name: INS

Assignment-1

- 1. What is the OSI security architecture? Explain the all the types ...?
- 2. List and briefly define the essential network and computer security requirements.?
- 3. List and briefly define categories of passive and active security attacks,?
- 4. Define Cryptography and Cryptanalysis. Draw and explain conventional cryptosystem.?
- 5. List and explain various types of attacks on encrypted message.?
- 6. What is the objective of attacking an encryption system? Write two approaches to attack a conventional encryption scheme.?
- 7. Construct a playfair matrix with key "engineering". And ecncrypt the message "test this process".?
- 8. Explain one time pad scheme.?
- 9. Explain the various types of cryptanalytic attack, based on the amount of information known to the cryptanalyst. .?
- 10. Encrypt the message "Good morning" using Hill Cipher with the key
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- 11. How is Steganography is different from Cryptography and write the types of Steganography.?
- 12. Explain Rail fence technique.?
- 13. What is the purpose of S-boxes in DES? Explain the avalanche effect.?
- 14. Draw and explain Fiestel's structure for encryption and decryption.?
- 15. Define confusion and diffusion and write 5 differences between them .?
- 16. Draw and explain Single Round of DES.?