CNS Lab Internal – 1 Question Bank

- 1. a) Write a C program that contains a string (char pointer) with a value 'Hello world'. The program should XOR each character in this string with 0 and displays the result.
 - b) Explain Block Cipher Operations?
- 2. a) Write a C program that contains a string (char pointer) with a value 'Hello world'. The program should AND or and XOR each character in this string with 127 and display the result.
 - b) Explain SHA-512
- 3. Write a Java program to perform encryption and decryption using the following algorithms
 - a) Ceaser cipher
 - b) Explain various Security Attacks?
- 4. Write a Java program to perform encryption and decryption using the following algorithms
 - a) Substitution cipher
 - b) Explain Security Mechanisms in detail?
- 5. Write a Java program to perform encryption and decryption using the following algorithms a) Hill Cipher
 - b) List and Explain anyone Transposition Techniques
- 6. a) Write a C/JAVA program to implement the DES algorithm logic.
 - b) Draw the Structure of DES?
- 7. a) Write a C/JAVA program to implement the Blowfish algorithm logic.
 - b) Draw the structure of Feistel Cipher?
- 8. a) Write a C/JAVA program to implement the Rijndael algorithm logic
 - b) Explain HMAC in detail?