CNS MINOR-1 IMPORTANTAT QUESTIONS

UNIT-I

1)	a) Explain the concept of CIA principle of security with examples. b) Demonstrate substitution techniques in classical cryptography with examples.	5 M
2)	Let message = "INDIAN ARMY", Ignore the space between words. Keyword = "MRUH", find cipher-text using playfair cipher.	5 M
3)	Discuss examples from real life, where the following security objectives are needed: i) Authentication ii) Authorization iii) Non-repudiation. Suggest suitable security mechanisms to achieve them.	5 M
4)	Define cryptography and its type. Explain following basic terms with example. i) Plain Text ii) Cipher Text iii) Encryption iv) Decryption	5 M
5)	Define steganography? Discuss the role of steganography in augmenting the corporation's security posture, including practical applications and potential challenges.	5 M

UNIT-II

6)	a) Explain following Algorithm Types with example: i) Block Cipher ii) Stream Cipher b) List out difference between Differential and Linear Cryptanalysis.	5 M
7)	What do you mean by DES? Diagrammatically illustrate the structure of DES & describe the steps in DES encryption process with example.	5 M
8)	Elaborate the encryption and key schedule operations of AES Algorithm.	5 M
9)	Describe International Data Encryption (IDEA) algorithm with its Key generation, encryption and its applications in Cyber security world.	5 M
10)	Explain about Blowfish Algorithm with focus on Key generation and Encryption and Decryption process.	5 M

UNIT-III

11)	Explain the concept of RSA Algorithm. Describe Security Analysis of RSA.	5 M
12)	Compare and contrast on Asymmetric and Symmetric Key cryptography with suitable parameters.	5 M