

CYBER SECURITY ASSIGNMENT QUESTION

DAY 35

- 1.Explain the birthday attack in cryptography. Discuss its significance and potential implications for cryptographic security.**
- 2.Describe the Diffie-Hellman key exchange algorithm. Explain how it enables secure key exchange between parties over an insecure communication channel.**
- 3.Define secret key cryptography and discuss its principles. Explain the use of symmetric encryption algorithms in secret key cryptography.**
- 4.Explain the concept of product ciphers in cryptography. Discuss their advantages and disadvantages compared to other cryptographic techniques.**
- 5. Describe the construction of the Data Encryption Standard (DES) algorithm. Discuss its key components, including Feistel network structure and the use of permutation and substitution operations.**