

Reg. No:

--	--	--	--	--	--	--	--	--	--

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)**B.Tech IV Year I Semester Supplementary Examinations July-2022****INFORMATION SECURITY**

(Computer Science & Information Technology)

Time: 3 hours

Max. Marks: 60

(Answer all Five Units **5 x 12 = 60** Marks)**UNIT-I**

- 1 a Describe in detail about Conventional Encryption Model. **6M**
 b Determine the security mechanisms required to provide various types of security services. **6M**

OR

- 2 a Explain about the Encryption and decryption functions Triple DES. **6M**
 b Explain how diffusion and confusion are used in Block Ciphers. **6M**

UNIT-II

- 3 a Determine the GCD(24140,16762) using Euclid's algorithm. **8M**
 b Compare conventional encryption with public key encryption. **4M**

OR

- 4 a What are the requirements and applications of public key cryptography? **7M**
 b Discuss about Euler's theorem. **5M**

UNIT-III

- 5 a List out applications of cryptographic hash functions. **6M**
 b Explain the characteristics are needed in secure hash function. **6M**

OR

- 6 a Compare different types of SHA algorithms with parameters. **5M**
 b Discuss about the objectives of HMAC and its security features. **7M**

UNIT-IV

- 7 What is secret key distribution? Explain secret key distribution with confidentiality and authentication. **12M**

OR

- 8 Write and explain Client/ Server Authentication Exchange service in Kerberos version. **12M**

UNIT-V

- 9 a What are the different types of viruses? How do they get into the systems? **6M**
 b Explain Intrusion detection in detail. **6M**

OR

- 10 a Explain ESP Header of IPSec. **6M**
 b What is meant by stateful packet inspection? What are the advantages and disadvantages. **6M**

*** END ***