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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)

B.Tech IV Year I Semester Supplementary Examinations August-2021

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 Discuss in detail about various types of Security attacks with neat diagrams. 6M
- b What is symmetric key cryptography? Discuss its advantages and limitations? 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 Explain RSA algorithm with suitable examples. 12M

OR

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

UNIT-III

- 5 What is hash function? Explain the requirements of Hash functions. 12M

OR

- 6 a List out applications of cryptographic hash functions. 5M
- b Explain the characteristics are needed in secure hash function? 7M

UNIT-IV

- 7 a What is Public Key certificate? Explain its usage with X.509 certificates. 6M
- b What is Radix 64 format? What is its use in PGP? 6M

OR

- 8 Explain key management and distribution in detail. 12M

UNIT-V

- 9 What is a firewall? What is the need for firewalls? What is the role of firewalls in protecting networks? 12M

OR

- 10 Write and explain TLS functions and alert codes of Transport Layer Security. 12M

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