Reg. No:

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
B.Tech IV Year I Semester Regular & Supplementary Examinations Feb-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	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	What is symmetric key cryptography? Discuss its advantages and limitations?	6M
	b	Discuss in detail about various types of Security attacks with neat diagrams.	6M

UNIT-II

3	a	Determine the GCD(24140,16762) using Euclid's algorithm	7M
	b	Compare conventional encryption with public key encryption	5M

OR

4	Explain RSA algorithm with suitable examples.	12M

UNIT-III

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

OR

6	Deign RSA-PSS Digital Signature Algorithm	12M

UNIT-IV

7	a	Enumerate the differences between Kerberos Version 4 and 5	6M
	b	Explain the authentication procedures defined by X.509 certificate	6M

OR

8	What is secret key distribution? Explain secret key distribution with confidentiality and authentication.	12M

UNIT-V

9	With a neat sketch explain the IPSec scenario and IPSec Services.	12M

OR

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

*** END ***