Reg. No:											
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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS)

B.Tech IV Year I Semester Supplementary Examinations June-2024 INFORMATION SECURITY

(Computer Science & Information Technology)

			(Computer Science & Information Technology)		
Ti	me	: 3 1	hours	ax. Ma	rks: 60
			(Answer all Five Units $5 \times 12 = 60$ Marks)		
	1	a	Discuss in detail about various types of Security attacks with neat diagrams.	L6	6M
		b	What is symmetric key cryptography? Discuss its advantages and limitations?	L6	6M
			OR		
	2		Describe in detail about Conventional Encryption Model.	L4	6M
		b	Determine the security mechanisms required to provide various types of security services.	L5	6 M
			UNIT-II		
	3	a	Determine the GCD (24140, 16762) using Euclid's algorithm.	L5_	6M
		b	Compare conventional encryption with public key encryption.	L2	6M
			OR		
	4	a	What are the requirements and applications of public key cryptography?	L1	6 M
		b	Discuss about Euler's theorem.	L6	6M
			UNIT-III		
	5	a	List out applications of cryptographic hash functions.	L1	6M
			Explain the characteristics are needed in secure hash function.	L2	6M
			OR		
	6	a	Compare different types of SHA algorithms with parameters.	L2	6M
			Discuss about the objectives of HMAC and its security features.	L2	6M
			UNIT-IV		
	7	a	Enumerate the differences between Kerberos Version 4 and 5.	L3	6M
	•		Explain the authentication procedures defined by X.509 certificate.	L3	6M
			OR	LS	OIVI
	8	a	What is Public Key certificate? Explain its usage with X.509 certificates.	L1	6M
			What is Radix 64 format? What is its use in PGP?	L3	6M
			UNIT-V		0112
	9	a	What are the different types of viruses? How do they get into the systems?	L1	6M
			Explain Intrusion detection in detail.	L2	6M
		~	OR		OIVE
	10	a	Explain ESP Header of IPSec.	L2	6M
			What is meant by stateful packet inspection? What are the advantages and	L2	6M
			disadvantages?		V212