(). P.	. Code: 16IT611	6
I	Reg	g. No:	
SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR			
(AUTONOMOUS)			
B.Tech IV Year I Semester Supplementary Examinations February-2022 INFORMATION SECURITY			
(Computer Science & Information Technology)			
Time: 3 hours Max. Marks: 60			: 60
		(Answer all Five Units $5 \times 12 = 60$ 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
2	a	OR Describe in detail about Conventional Encryption Model.	6M
-	b	Consider the following:	6M
		Plaintext: "ACT"	
		Secret key: "GYBNQKURP"	
		Compute the cipher text from given plain text and key using hill cipher method UNIT-II	
3	a	Explain the Chinese Remainder theorem.	8 M
	b	State Fermat's theorem.	4M
		OR	
4	a b	State modular arithmetic operations with example. State Fermat's theorem with example.	7M 5M
	U	UNIT-III	3111
5	De	escribe HMAC algorithm in detail.	12M
		OR	
6	Ex	cplain the classification of authentication function in detail.	12M
7		UNIT-IV Enumerate the differences between Kerkeres Version 4 and 5	
7	a b	Enumerate the differences between Kerberos Version 4 and 5. Explain the authentication procedures defined by X.509 certificate.	6M 6M
	N	OR	UIVI
8	a	Write short notes on PGP.	6M
	b	Write short notes on S/MIME.	6M
9	0	What is the use of SSL protocol ² Explain SSL record protocol operation with SSL record	<u>AM</u>
,	a	What is the use of SSL protocol? Explain SSL record protocol operation with SSL record format.	6M
	b	With a neat sketch explain the IPSec scenario and IPSec Services.	6M
10		OR Why Internet Key Evolution is used? Write and evolution has denoted and results of firmers.	
10	a b	Why Internet Key Exchange is used? Write and explain header and payload formats of it. Write and explain TLS functions and alert codes of Transport Layer Security.	6M 6M

*** END ***