irinivas Institute or Teghnussa'

USN

18ECS243

## Second Semester M.Tech. Degree Examination, June/July 2019 Cryptography and Network Security

Time: 3 hrs.

Max. Marks: 100

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	No	ote: Answer any FIVE full questions, choosing ONE full question from each mod	ule.
		Module-1	
1	a.		(10 Marks)
•	b.	Explain with neat block diagram encryption and decryption and explain authorized authori	entication
	U.	integrity and non-repudiation.	(10 Marks)
		OR _	
2	a.	DAPIGH With Glad Bollera September 21	(10 Marks
	b.	Explain with diagram of AES key expansion.	(10 Marks
		0'	
		Module-2	
3	a.	Male and provor crimat b theorem and zone	(10 Marks
	b.	Explain first assertion and second assertion of the Chinese remainder theorem.	(10 Marks
		A Ann A	
		OR	(10 Marks
4	a.	Describe RSA algorithm and discuss the security of RSA.	(10 Mark
	b.	Explain Diffie-Hellman key exchange algorithm.	(10 Mark
		Module-3	
-		Explain linear complexity and correlation immunity.	(10 Mark
5	a. b.	Explain with diagram of Jennings generator.	(10 Mark
	0.	Explain with diagram of Johnings generates.	
		OR	
6	a.	Explain: i) Fish ii) Dike iii) Mush.	(10 Mark
	b.	Explain with diagram GIFFORD.	(10 Mark
		( ) (S)	
		Module-4	
7	a.	Explain with diagram of MD5 main loop.	(10 Mark
	b.	Explain with diagram of the four secure hash functions where the block length	(10 Mark
		hash size.	(10 Mark
		OP	
		OR Explain: i) RIPE-MAC ii) IBC-Hash.	(10 Mark
8	a.	Explain: i) RIPE-MAC ii) IBC-Hash. Explain GOST digital signature algorithm and its parameters.	(10 Mark
	b.	Explain GOST digital signature algorithm and its parameters.	
		Module-5	
9	a.	Explain Pretty Good Privacy.	(10 Mark
,	b.	Explain the five header fields defined in MIME.	(10 Mark
	U.	Explain the five heads are as	
		OR	
10	a.	List the top-level format of an ESP packet.	(10 Marl
	1	Familia CSI record protocol operation	(10 Mark

b. Explain SSL record protocol operation.

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.