

(A)

[M19CS1108]

I M. Tech I Semester (R19) Regular Examinations
NETWORK SECURITY AND CRYPTOGRAPHY
DEPARTMENT OF ELECTRONICS & COMMUNICATIONS ENGINEERING
MODEL QUESTION PAPER
TIME: 3Hrs.
Max. Marks: 75 M

 Answer **ONE Question** from **EACH UNIT**.

All questions carry equal marks.

			CO	KL	M
		UNIT-I			
1.	a).	Describe the relationship between security services and mechanisms	CO1	2	8
	b).	What are the different types of attacks? Explain with examples.	CO1	1	7
		OR			
2.	a).	What is dble DES? What kind of attack is possible on dble DES?	CO1	1	8
	b).	Explain abt Block Cipher Principles?	CO1	2	7
		UNIT-II			
3.	a).	Explain digital signature standard algorithm for authentication?	CO2	2	8
	b).	Explain abt International Data Encryption algorithm?	CO2	4	7
		OR			
4.	a).	Explain in detail abt the Characteristics of Advanced Symmetric block ciphers.	CO2	2	8
	b).	Write short note on Traffic confidentiality, Key distribution.	CO2	2	7
		UNIT-III			
5.	a).	Perform encryption/decryption using RSA algorithm for the following: $p = 3, q = 11, e = 7, m = 5$	CO3	6	8
	b).	What are the main differences between Diffie-Hellman Key exchange, Elliptic Curve Cryptography.	CO3	2	7
		OR			
6.	a).	Explain abt Discrete logarithms.	CO3	2	8
	b).	State Chinese remainder theorem and explain with one example.	CO3	1	7
		UNIT-IV			
7.	a).	Describe the different cryptographic functions provided by PGP.	CO4	2	8
	b).	What is MIME? What are the different content types of MIME?	CO4	1	7
		OR			
8.	a).	Explain digital signature standard algorithm for authentication?	CO4	2	8
	b).	What are HASH functions and how they are helpful in Message Authentications?	CO4	1	7
		UNIT-V			
9.	a).	Explain in detail the architecture of IP Security.	CO4	2	8
	b).	How web security can be achieved? What are the different mechanisms?	CO4	2	7
		OR			
10.	a).	Define the three classes of intruders and mention the intrusion techniques to protect from the intruders.	CO4	1	8
	b).	Explain the different types of viruses.	CO4	2	7

CO-CRSE

TCOME

KL -KNOWLEDGE LEVEL

M-MARKS