

MARRI LAXMAN REDDY INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(AN AUTONOMOUS INSTITUTION)
(Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad)
Accredited by NBA and NAAC with 'A' Grade & Recognized Under Section2(f) & 12(B)of the UGC act,1956

II B.Tech II Sem Regular End Examination, July 2022 Cryptography and Network Security (CSC)

Time: 3 Hours. Max. Marks: 70

Note: 1. Question paper consists: Part-A and Part-B.

- 2. In Part A, answer all questions which carries 20 marks.
- 3. In Part B, answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

PART- A

(10*2 Marks = 20 Marks)

1. a)	What are the examples of security attacks?	2M	CO1	BL1
b)	List out the security services.	2M	CO1	BL1
c)	Tell about Blowfish.	2M	CO2	BL1
d)	Define knapsack algorithm.	2M	CO2	BL1
e)	Describe HMAC.	2M	CO3	BL2
f)	What is the X.509 Authentication service?	2M	CO3	BL1
g)	Which email is best for privacy?	2M	C04	BL1
h)	List the benefits of IP security.	2M	CO4	BL1
i)	Mention the requirements of web security.	2M	CO5	BL1
j)	Summarize intruders.	2M	CO5	BL1

PART-B

(10*5 Marks = 50 Marks)

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2	a)	What are Security attacks and its types.	5M	CO1	BL1		
	b)	Discuss the cryptography concepts and techniques.	5M	CO1	BL2		
		OR					
3		Compare the substitution techniques and transposition techniques.	10M	CO1	BL2		
4	a)	Where are the bock cipher operations used and Describe stream ciphers.	5M	CO2	BL1		
	b)	How RC4 differ from RC5 brief.	5M	CO2	BL1		
OR							
5		Explain Diffie-Hellman key exchange with an example.	10M	CO2	BL4		
			(9)				

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6	a)	Demonstrate Kerberos.	5M	CO3	BL5
	b)	Elaborate Secure Hash algorithm.	5M	CO3	BL5
		OR			
7		Develop Symmetric key distribution using symmetric & asymmetric encryption by an example.	10M	CO3	BL6
8	a)	Make use of pretty good privacy and S/MIME.	5M	C04	BL3
	b)	Determine Authentication header.	5M	CO4	BL3
		OR			
9		Illustrate combining security association and key management.	10M	CO4	BL3
10	a)	Design secure socket layer (SSL).	5M	CO5	BL6
	b)	How to predict Trusted systems?	5M	CO5	BL1
		OR			
11		Analyze Firewall design principles.	10M	CO5	BL4

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