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CMR ENGINEERING COLLEGE: : HYDERABAD UGC AUTONOMOUS

III-B.TECH-I-Semester End Examinations (Supply) - May- 2023 CRYPTOGRAPHY & NETWORK SECURITY

(CSC)

[Max. Marks: 70]

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 20 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks.

	PART-A	(20 Marks)
1 ->	What is avalanche effect?	[2M]
1. a)	Define Asymmetric key cryptography?	[2M]
b)	What are the drawback of Diffie and Helman key exchange algorithm?	[2M]
c) d)	Write the difference between stream ciphers and block ciphers?	[2M]
e)	What is a digital signature?	[2M]
f)	What is message digest?	[2M]
g)	What are the services provided by IP Security?	[2M]
h)	What are the various PGP Services?	[2M]
i)	What is the cross site scripting vulnerability?	[2M]
j)	What are the intrusion detection system techniques?	[2M]
•	PART-B	(50 Marks)
2.	List out the substitution techniques and explain any two techniques with example.	[10M]
	OR	
3.	Consider the following:	[10M]
	Plaintext: "PROTOCOL"	,
	Secret key: "NETWORK"	
	What is the corresponding cipher text using play fair cipher method?	
	CDC4 Engraption algorithm?	[10M]
4.	Briefly explain the characteristics and operations of RC4 Encryption algorithm?	[]
	OR	and [10M]
5.	Explain about DES algorithm with suitable examples and its advantages	[]
	limitations?	
		[10M]
6.	Explain about HMAC algorithm? OR	
_		[10M]
7.	Discuss Digital Signature Algorithm briefly?	
8.	What is MIME? Explain context types in detail?	[10M]
0.	OR	T. 03. 57
9.	Explain about encapsulating security payload?	[10M]
7.		£103.47
10.	What is intrusion? Discuss intrusion detection system with neat diagram?	[10M]
	OR	[10M]
11.	Explain about Digital signature generation processes.	[10101]
