Code No.: DS621PE

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CMR ENGINEERING COLLEGE: : HYDERABAD UGC AUTONOMOUS

III-B.TECH-II-Semester End Examinations (Regular) - May- 2023 CRYPTOGRAPHY AND NETWORK SECURITY (PE-2) (CSD)

[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 and may have a, b, c as sub questions.

	PART-A	20 Marks)
1. a)	Define plain text and cipher text.	[2M]
b)	Write two principles of security.	[2M]
c)	Differences between stream cipher and block cipher.	[2M]
d)	Write principles of public key cryptosystems.	, [2M]
e)	What is digital signature?	[2M]
f)	What is key size of SHA-512.	[2M]
g)	What is wireless security?	[2M]
h)	What are web security considerations?	[2M]
i)	How security maintained for e-mail?	[2M] [2M]
j)	What is PGP?	[ZiVI]
	PART-B (50 Marks)
2	Discuss about types of security attacks and mechanisms.	[10 M]
2.	OR	-
3.	Illustrate different types of substitution techniques.	[10M]
4.	Explain DES algorithm and mention the strengths and weakness of it.	[10M]
	OR	
5.	Discuss RSA algorithm and Perform decryption and encryption using RSA algorit with p=3, q=11, e=7 and n=5.	hm [10M]
_	YYY '. I J ITA A C -localithm and its sequestry	[10M]
6.	Write about HMAC algorithm and its security. OR	[]
7.	What is the motivation for Kerberos? Discuss Kerberos version 4.	[10M]
8.	Explain secure socket layer and transport layer security briefly.	[10M]
	OR	r103.43
9.	Discuss about IEEE 802.11 wireless LAN.	[10M]
10.	Explain the functionality of S/MIME.	[10M]
131	OR	
11.	Discuss case study on "cross site scripting vulnerability". ***********************************	[10M]