Code No.: CY514PE & IT511PE

R20

H.T.No.

8 R

CMR ENGINEERING COLLEGE: : HYDERABAD UGC AUTONOMOUS

III-B.TECH-I-Semester End Examinations (Supply) - June- 2024 CRYPTOGRAPHY & NETWORK SECURITY

(CSC, IT)

[Time: 3 Hours]

[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 Mar	ks)	
1. a)	What are passive attacks? List the types of passive attacks.	[2M]	
b)	Define Symmetric and Asymmetric Cryptography.	[2M]	
c)	What are the differences between public-key and private-key encryption?	[2M]	
d)	Explain the avalanche effect.	[2M]	
e)	List out Services of X.509 Authentication.	[2M]	
f)	Define digital signature. Explain its role in network security.	[2M]	
g)	List notations used in HTTPS.	[2M]	
h)	Differentiate IEEE 802.11 & 802.11i.	[2M]	
i)	Why is segmentation and reassembly function in PGP needed?	[2M]	
j)	What is the use of Cross Site Scripting?	[2M]	
	PART-B (50 Ma)	(50 Marks)	
2.	Discuss about different types of security services.	[10M]	
	OR		
3.	Outline in detail about active and passive attacks.	[10M]	
4.	Explain about AES with a neat diagram.	[10M]	
	OR		
5.	How RSA algorithm working? Give with an example.	[10M]	
6.	Explain about Secure Hash Algorithm (SHA-512).	[10M]	
	OR	13/	
7.	What are the four requirements were defined for Kerberos? What entities constitute a full-service Kerberos environment?	[10M]	
8.	Describe the steps are involved in the SSL Record Protocol transmission?	[10M]	
0	Summarize different Wireless Network Security standards and their functionalities.	[10M]	
9.	Summarize different wheless Network Security standards and their functionanties.	[1011]	
10.	Explain about Pretty Good Privacy. How does PGP use the concept of trust?	[10M]	
11.	OR Discuss about Secure Multi Party Calculation, Secure Single Sign ON.	[10M]	