Code No.: (	CS731PE
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## CMR ENGINEERING COLLEGE: : HYDERABAD UGC AUTONOMOUS

IV-B. TECH-I-Semester End Examinations (Regular) - November- 2024 INFORMATION SECURITY & RISK MANAGEMENT

(CSE)

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

	PART-A	(20 Marks)
1. a)		
b)	Compare substitution ciphers with transposition ciphers	[2M]
c)	List the features of Authentication headers.	[2M]
<b>d</b> )	Define HMAC.	[2M] [2M]
e)	, to mo Digital Digital O.	[2M]
f)	What is Database Security?	. [2M]
g)		[2M]
h)		[2M]
i)		[2M]
j)	Define Risk analysis.	[2M]
		ţ <u>-</u>
	PART-B	(50 Marks)
2		(======================================
2.	a) Discuss in detail about various types of Security attacks with neat diagrams	[5M]
	b) Explain in detail about the Common Vulnerabilities and Exposure?	[5M]
3.	With a past discussion and it is	
٥.	With a neat diagram explain how encryption and decryption are done using Blowfis algorithm?	h [10M]
	argorium;	
4.	Explain the RSA algorithm? With suitable examples.	
	OR	[10M]
5.	a) Explain about Elliptic Curve Cryptography with neat diagram.	
	b) Discuss about Message Authentication and Hash Functions.	[5M]
	, and the state of	[5M]
_	· · · · · · · · · · · · · · · · · · ·	
6.	Client Machine C wants to communicate with Server S Explain how it can be	[10M]
	achieved through Kerberos protocol?	[10141]
~	OR	
7.	a) Discuss the steps involved in Key performance indicators	[5 <b>M</b> ]
	b) Elaborate the Data leakage threats?	[5M]
8.	a) Briefly discuss about ID Security A 1	
0.	a) Briefly discuss about IP Security Architecture.	[5M]
	b) Explain the Encapsulating Security Payload.	[5M]
	OR	
9.	a) Explain the Secure Electronic Transaction	· ·

a) Explain the Secure Electronic Transaction.b) Discuss the types of Firewalls With examples?

[5M]

[5M]