

CMR INSTITUTE OF TECHNOLOGY: HYDERABAD
UGC AUTONOMOUS

III – B.Tech. – I – Semester End Examinations– January – 2024

INFORMATION AND CYBER SECURITY
(CSE, CSE(AI&ML), CSE(DS),AI&ML,AI&DS)

[Time: 3 Hours]

[Max. Marks: 70]

- Note:** 1. This question paper contains two parts A and B.
 2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
 3. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have i, ii, iii as sub questions.
 4. Illustrate your answers with NEAT sketches wherever necessary.

PART-A**10 X 2M = 20 M**

S.No	Question	Blooms Taxonom Level	CO	PO
1	Define Reverse Engineering.	L1	1	2,,3,6,8,12
2	Examine the difference between Threat and Attack.	L1	1	2,,3,6,8,12
3	Define Cyberstalking.	L1	2	2,,3,6,8,12
4	Name the two different categories of Cybercrime.	L1	2	2,,3,6,8,12
5	Assume that there is bi-directional IPsec traffic between headquarters and 5 branch offices in a VPN. Infer the number of SA's to be established.	L4	3	2,,3,6,8,12
6	Differentiate SSL and TLS.	L4	3	2,,3,6,8,12
7	Define Logging.	L1	4	2,,3,6,8,12
8	Recall the different ways in which an asset is classified.	L1	4	2,,3,6,8,12
9	Recite Copyright law.	L1	5	2,,3,6,8,12
10	State any 2 cyber laws in India.	L1	5	2,,3,6,8,12

PART-B**5 X 10M = 50 M**

11.A	i. With a neat diagram, explain the network security model.	L2	1	2,,3,6,8,
	ii. Describe different types of Operating system attacks.	L2		
OR				
11.B	Explain any five types of Web application attacks.	L2	1	2,,3,6,8,

12.A	Explain in detail about the phases involved in planning Cybercrime.	L2	2	2,,3,6,8,12
OR				
12.B	i. Summarize various risks associated with the cloud computing environment. ii. Discuss about Social Engineering.	L2 L2	2	2,,3,6,8,12
13.A	Illustrate with a neat diagram the different phases in a SSL handshake Protocol mechanism.	L2	3	2,,3,6,8,12
OR				
13.B	Describe various services provided by PGP in detail.	L2	3	2,,3,6,8,12
14.A	i. Compare and contrast Risk assessment and Risk management. ii. Prioritize the necessary steps to be taken for resource recovery.	L4 L4	4	2,,3,6,8,12
OR				
14.B	Explain in detail about the crisis management plan.	L2	4	2,,3,6,8,12
15.A	Discuss about E-mail security policies and Corporate policies.	L2	5	2,,3,6,8,12
OR				
15.B	Explain Information Technology Act, 2000.	L2	5	2,,3,6,8,12

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