PRESIDENCY UNIVERSITY
BENGALURU

School Of Computer Science and Engineering & Information Science

End-Term Examinations, Aug 2024

Odd Semester: 2023 - 24

Course Code: CSE2060

Course Name: INFORMATION SECURITY MANAGEMENT

Department: INFORMATION SCIENCE AND TECHONOLOGY

Date: 07-08-2024

Time: 09.30 a.m. to 12.30 p.m.

Max Marks: 100

Weightage: 50%

Instructions:

(i) Read the all questions carefully and answer accordingly.

(ii) Do not write any matter on the question paper other than roll number.

Q.No		Questions	Marks	CO	RBT
1	a.	Explain the three legs of security trinity	4	CO1	L1
	b.	List and explain in brief the different ways confidentiality can be compromised	6	CO1	L2
	c.	Discuss the Systems Development Life Cycle	10	CO1	L3
OR					
2	a.	List the components of IS	4	CO1	L1
	b.	Explain the CNSS security Model	6	CO1	L2
	c.	Explain the NIST Approach to Securing the SDLC	10	CO1	L3
3	a.	Describe the software attacks	4	CO2	L1
	b.	Discuss the different steps of an attack	6	CO2	L2
	c.	List and Describe the threats posed to information security and Common attacks associated with those threats	10	CO2	L3
OR					
4	a.	Explain the insider threat	4	CO2	L1
	b.	Discuss the threat consequences	6	CO2	L2
	c.	Explain the multiple defenses against attacks	10	CO2	L3
5	a.	Explain the importance of executive Governance and support in risk management.	4	CO3	L1
	b.	What is ALE You need to calculate the ALE for a server. The value of the server is $3000, but it has crashed 10 times in the past year. Each time it crashed , it resulted in a 10 percent loss? Calculate the ALE	6	CO3	L2
	c.	Explain the Risk Management Process, in detail	10	CO3	L3

6	a.	Explain different types of risk analysis	4	CO3	L1
	b.	Describe different categories of data classification scheme	6	CO3	L2
	c.	Explain the Risk Management Framework, in detail	10	CO3	L3

7	a.	Explain the various techniques used protect remote connection	4	CO4	L1
	b.	Explain various Firewall Architectures	6	CO4	L2
	c.	Explain the Kerberos, in detail	10	CO4	L3

OR

8	a.	Differentiate between authentication and authorization	4	CO4	L1
	b.	Explain how static filtering is different from dynamic filtering of packets? Which is perceived to offer improved security?	6	CO4	L2
	c.	Describe the VPN? Why is it becoming more widely used? Explain in detail	10	CO4	L3

9	a.	List the components of IS and explain in brief	4	CO1	L1
	b.	Explain the Software Design Principles	6	CO1	L2
	c.	List and explain the critical characteristics of information	10	CO1	L3

OR

10	a.	Define the terms Hacker, expert hacker, jailbreaking, novice hacker	4	CO2	L1
	b.	Differentiate between active attack and passive attack	6	CO2	L2
	c.	Discuss various types of active attacks	10	CO2	L3