Register No: _____

THE KAVERY ENGINEERING COLLEGE

(An Autonomous Institution)

MCA DEGREE END SEMESTER THEORY EXAMINATIONS, NOV/DEC 2025

Second Semester

Master of Computer Applications

PMCT2425 - Cyber Security

Regulations - 2024

Duration : 3 Hrs *Maximum : 100 Marks*

*PART – A (ANSWER ALL QUESTIONS) (Marks 10*2=20)*

Q.No	*Questions*	*BLT*	*CO*	*Marks*
1.	Define Security Governance and its importance in Cyber Security.	L1	1	2
2.	List the differences between threats and vulnerabilities in information risk management.	L1	1	2
3.	What is human resource security, and why is it essential?	L1	2	2
4.	Name the two types of information classification.	L1	2	2
5.	Compare the system access and system management.	L2	3	2
6.	What is IP Security, and how does it protect network communications?	L1	3	2
7.	Define Cloud Security and its importance.	L1	4	2
8.	List two common tools used in digital forensic investigations.	L1	4	2
9.	What is information risk reporting?	L1	5	2
10.	Define compliance monitoring.	L1	5	2

*PART – B (ANSWER ALL QUESTIONS) (Marks 5*16 = 80)*

Q.No		*Questions*	*BLT*	*CO*	*Marks*
11.	a	Explain the process of Risk Assessment in cyber security in detail.	L2	1	16
		Or			
	b	Compare the Bell-La Padula, Biba Integrity, and Chinese Wall security models, with examples of scenarios where each would be most applicable.	L2	1	16
12.	a	Outline the ways in which security awareness training contribute to reducing security risks.	L2	2	16
		Or			
	b	Explain how disaster management and incident response planning can minimize the impact of security breaches on an organization.	L2	2	16
13.	a	Compare different Authentication Mechanisms used in business application security.	L2	3	16
		Or			
	b	Explain the different types of Network Storage Systems and their security considerations.	L2	3	16

14.	a	Build a secure supply chain management plan by identifying potential threats and developing effective countermeasures.	L3	4	16
		Or			
	b	Identify the impact of malware protection strategies on the overall cybersecurity of an organization.	L3	4	16
15.	a	Develop a Security Performance measurement framework for an organization.	L3	5	16
		Or			
	b	Construct a comprehensive Security Monitoring and Improvement plan for an organization.	L3	5	16