

THE KAVERY ENGINEERING COLLEGE*(An Autonomous Institution)***M.E DEGREE END SEMESTER THEORY EXAMINATIONS, NOV/DEC 2025***Third Semester**Computer Science and Engineering***PCST2431 - Security Practices***Regulations - 2024**Duration : 3 Hrs**Maximum : 100 Marks***PART - A (ANSWER ALL QUESTIONS) (Marks 10*2=20)**

<i>Q.No</i>	<i>Questions</i>	<i>BLT</i>	<i>CO</i>	<i>Marks</i>
1.	Differentiate between Stream Cipher and Block cipher.	L2	1	2
2.	Differentiate Intrusion Prevention system with Intrusion detection system.	L2	1	2
3.	Why is internet security so important today?	L1	2	2
4.	Outline the challenges of bootstrapping in wireless sensor networks.	L2	2	2
5.	Summarize the duties of an Information Security Manager.	L2	3	2
6.	Identify the main components of identity management.	L3	3	2
7.	Outline the required set of skills needed to be a cyber-forensic expert.	L2	4	2
8.	Relate the different ways that a Malware can get into system.	L2	4	2
9.	Categories most possible privacy issues.	L2	5	2
10.	List various risk management standards.	L1	5	2

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

<i>Q.No</i>	<i>Questions</i>	<i>BLT</i>	<i>CO</i>	<i>Marks</i>
11.	a i Propose appropriate security mechanisms and services to mitigate the identified threats and vulnerabilities.	L3	1	8
	ii Apply the following keyword "Rockerrooks" over the plaintext "Ask not what your country can do for you" to produce the ciphertext using Vigenere cipher.	L3	1	8
	Or			
	b i Identify the security risks reported in the OWASP top 10 2017 report.	L3	1	10
	ii Compare various intrusion prevention system technologies.	L3	1	6
12.	a i How can a local area network (LAN) be secured? Demonstrate the same with minimum network security recommendations.	L2	2	8
	ii Compare various security protocols for sensor networks.	L2	2	8
	Or			
	b i Summarize cellular Network Vulnerability assessment Toolkit with neat diagram.	L2	2	8
	ii Outline IoT Security Issues and Challenges.	L2	2	8

13.	a	Examine how a Policy-driven system management automates the management of large-scale computing systems.	L4	3	16
	Or				
	b	Inspect various aspects of IT security should be considered in an organization.	L4	3	16
14.	a	Analyze wireless communications that could potentially be used in a court of law as digital evidence.	L4	4	16
	Or				
	b	Examine the best security practices to automate more secure Cloud deployments.	L4	4	16
15.	a	Illustrate various Privacy Enhancing Technologies with example.	L2	5	16
	Or				
	b	Outline several major areas of focus for securing storage networks.	L2	5	16