December 2023

B.Tech. (ME) - V SEMESTER

CYBER LAW AND SECURITY (OEC-ME-502)

Time: 3 Hours   Max. Marks: 75

Instructions: 1. *It is compulsory to answer all the questions (1.5 marks each) of Part -A in short.*
2. *Answer any four questions from Part -B in detail.*
3. *Different sub-parts of a question are to be attempted adjacent to each other.*

PART -A

Q1	(a)	Why do we need distributed information systems?	(1.5)
	(b)	What is e-cash?	(1.5)
	(c)	What are the key security threats in e-commerce?	(1.5)
	(d)	What is a cryptographically generated address (CGA)?	(1.5)
	(e)	What is a Rootkit?	(1.5)
	(f)	Explain the public key certificate.	(1.5)
	(g)	Differentiate between utility and design patents.	(1.5)
	(h)	What are the types of works protected under copyright law in India?	(1.5)
	(i)	What is the role of VPN in networking?	(1.5)
	(j)	What is the objective of a firewall?	(1.5)

PART -B

Q2	(a)	Discuss the common security attacks on mobile devices.	(10)
	(b)	What is the CIA Triad and Why is it important?	(5)
Q3	(a)	Explain about web threats for organizations.	(7)
	(b)	Explain E-Governance from India's perspective.	(8)
Q4		Discuss various criteria for the selection of biometrics.	(15)
Q5	(a)	Explain different types and techniques of Credit Card Fraud.	(7)
	(b)	Discuss cryptographic security for mobile devices.	(8)
Q6	(a)	Explain the factors that make the network vulnerable.	(7)
	(b)	What is a firewall? Discuss different types of firewalls.	(8)
Q7		Discuss different types of cybercrimes and measures that should be taken to prevent them.	(15)

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