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B.M.S. College of Engineering, Bengaluru-560019

Autonomous Institute Affiliated to VTU

May / June 2025 Semester End Main Examinations

Programme: B.E. **Semester: VIII**

Branch: Electronics and Instrumentation Engineering **Duration: 3 hrs.**

Course Code: 22EI8PE4CS **Max Marks: 100**

Course: Cyber Security

Instructions: 1. Answer any FIVE full questions, choosing one full question from each unit.
2. Missing data, if any, may be suitably assumed.

Important Note: Completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Revealing of identification, appeal to evaluator will be treated as malpractice.

		UNIT - I	CO	PO	Marks
1	a)	How can cybercrimes be classified? Illustrate a brief explanation for each classifications.	CO1	PO2	**08**
	b)	Define cybercrime. Briefly explain Techno crime and Techno Vandalism with example.	CO1	PO1	**06**
	c)	In your opinion, why is it crucial for countries to work together in the fight against cybercrime?	CO1	PO2	**06**
		OR			
2	a)	Write a note on i) Salami Attack ii) Hacking iii) Software piracy iv) Mail Bombs v) Cyber defamation	CO1	PO2	**10**
	b)	How do you think cybercrime has relevance in the extended enterprise context? Explain.	CO1	PO2	**05**
	c)	Explain cybercrime and the Indian ITA 2000	CO1	PO2	**05**
		UNIT - II			
3	a)	How are cybercrimes categorized? Explain with examples.	CO2	PO2	**06**
	b)	Explain the phases in planning a cyber crime.	CO2	PO2	**04**
	c)	Explain the difference between passive and active attacks. Illustrate with examples.	CO2	PO2	**10**
		OR			
4	a)	Define Attack vector. Outline the different attack vector approaches used by cyber criminals for launching cyber attacks.	CO2	PO2	**08**
	b)	What is cyberstalking? As per your understanding is it a crime under the Indian IT Act? Justify	CO2	PO2	**06**

		c)	Explain how Botnets can be used as a fuel to cybercrime.	*CO2*	*PO2*	**06**
			UNIT - III			
	5	a)	Classify is the difference between proxy server and an anonymizer?	*CO2*	*PO2*	**06**
		b)	Define a Backdoor? Discuss any four examples of Backdoor Trojans?	*CO2*	*PO2*	**08**
		c)	Show the difference between WAPkitting and WAPjacking?	*CO2*	*PO2*	**06**
			OR			
	6	a)	Illustrate the different ways of password cracking with example.	*CO2*	*PO2*	**06**
		b)	What is the difference between DoS and DDoS? Explain with example for each various levels of DoS attacks.	*CO2*	*PO2*	**08**
		c)	List and explain the tools used to monitor and protect the wireless networks.	*CO2*	*PO2*	**06**
			UNIT - IV			
	7	a)	Identify the common ways, the techniques used by phishers to launch Phishing attacks.	CO3	*PO2*	**07**
		b)	Explain at least 4 methods used by the phishers to reveal personal Information on internet.	CO3	*PO2*	**07**
		c)	How to prevent being a victim of ID theft?	CO3	*PO2*	**06**
			OR			
	8	a)	Explain the Sanitizing Proxy System (SPS) filtering algorithm to thwart Phishing Attacks.	*CO3*	*PO2*	**06**
		b)	What are the different type of identity theft ? Explain.	*CO3*	*PO2*	**08**
		c)	Discuss various types Phishing scams.	*CO3*	*PO2*	**06**
			UNIT - V			
	9	a)	Explain the various phases and activities in the forensics life cycle	*CO3*	*PO2*	**08**
		b)	With neat diagram and examples, explain the concept of chain of custody in digital forensics.	*CO3*	*PO2*	**08**
		c)	Is there a difference between "digital forensics" and "computer forensics"? Explain.	*CO3*	*PO2*	**04**
			OR			
	10	a)	Outline Process model for understanding a seizure and handling of forensics evidence legal framework.	*CO3*	*PO2*	**06**
		b)	List various computer forensics available, explain any two of them	*CO3*	*PO2*	**07**
		c)	Explain how an E-Mail can be traced for forensics purpose. Outline the various key steps involved.	*CO3*	*PO2*	**07**

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