



**SIDDHARTHA INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)**

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QUESTION BANK (DESCRIPTIVE)

Subject with Code: Principles of Cyber security (20CS1003)

Course & Branch: B.Tech – CIC

UNIT –I INTRODUCTION TO CYBER SECURITY & Sem: III - B.Tech & I-Sem

1	a	What is cybersecurity?	[L1][CO1]	[2M]
	b	What are Cyber Crimes and How these crimes can be minimized?	[L1][CO1]	[2M]
	c	Who are Cyber Criminals and what kind of harms done by them	[L1][CO1]	[2M]
	d	List out few roles of Cyber Threats	[L1][CO1]	[2M]
	e	Classify Cybercrimes and brief it with related terms	[L2][CO1]	[2M]
2		Inference Cybercrimes Cases of Various Categories under ITA 2000	[L1][CO1]	[10M]
3		Discuss and Elaborate about Cybercrime and its related security measures	[L4][CO1]	[10M]
4	a	List out the sections and rules in IT ACT 2000	[L1][CO1]	[5M]
	b	Analyze about the Global perspective of Cyber Crime	[L1][CO1]	[5M]
5		What is cybercrime? Explain the classification of cybercrimes.	[L1][CO1]	[10M]
6	a	Summarize about cybercrime in “the legal perspective”	[L3][CO1]	[5M]
	b	Summarize about cybercrime in “the Indian perspective”	[L3][CO1]	[5M]
7		Distinguish between Information Security & Cyber security	[L4][CO1]	[10M]
8		Explain about Information Security Management in detail	[L1][CO1]	[10M]
9		Explain about Cyber Security Management in detail	[L1][CO1]	[10M]
10	a	Inference Cybercrimes Cases of Various Categories under IPC Section	[L4][CO1]	[5M]
	b	Dissect the Incidence of Cybercrimes in Cities in detail	[L4][CO1]	[5M]

UNIT –II
Information Security (IS) within Lifecycle Management

1	Explain Information Security Life cycle in detail	[L1][CO2]	[10M]
2	Discuss the information security tools in detail	[L1][CO2]	[10M]
3	What do you mean by Operational Threat Environment	[L1][CO2]	[10M]
4	Discuss the classes of Attacks	[L6][CO2]	[10M]
5	What is Vulnerability? Explain it in detail	[L1][CO2]	[10M]
6	a What do you mean by Access attacks?	[L2][CO2]	[5M]
	b Explain Reconnaissance attacks	[L6][CO2]	[5M]
7	What is Risk management in Cyber Security?	[L5][CO2]	[10M]
8	a What is CTI and its types?	[L2][CO2]	[5M]
	b Explain Malware and Phishing?	[L6][CO2]	[5M]
9	Distinguish between Risks,Threats and Vulnerabilities?	[L4][CO2]	[10M]
10	Briefly discuss on DDos Attacks?	[L6][CO2]	[10M]

UNIT –III
Incident Response

1	Explain the categories of Incidents in Cyber security?	[L2][CO3]	[10M]
2	a What is Incident Response?	[L1][CO3]	[5M]
	b What is Incident Recovery?	[L4][CO3]	[5M]
3	Explain Identity and access Management in Cyber security?	[L6][CO3]	[10M]
4	Discuss the ports and Protocols in Cyber security	[L2][CO3]	[10M]
5	Explain Data assets in detail	[L2][CO3]	[10M]
6	Briefly explain Protection Technologies?	[L2][CO3]	[10M]
7	a Why is digital data security important?	[L1][CO3]	[5M]
	b What are the different types of digital security?	[L3][CO3]	[5M]
8	What's the Difference Between Digital Information Security and Cyber Security?	[L2][CO3]	[10M]
9	Explain Digital security and its types?	[L4][CO3]	[10M]
10	What is configuration Management in Cyber security?	[L4][CO3]	[10M]

UNIT –IV
Threat Detection and Evaluation

1	Explain Vulnerability Management in Cyber security			
2	a	What are security Logs	[L2][CO4]	[5M]
	b	What do you mean by alerts	[L1][CO4]	[5M]
3	a	Examine Web threats for organization in detail	[L1][CO4]	[5M]
	b	List out few roles of Cyber Threats	[L6][CO4]	[5M]
4	Explain in detail Monitoring Tools and Appliances?		[L5][CO4]	[10M]
5	Explain the classification of Cyber Threats?		[L2][CO4]	[10M]
6	a	Discuss various Threat detection	[L2][CO4]	[5M]
	b	What is Threat Evaluation?	[L4][CO4]	[5M]
7	What is packet capture analysis?		[L2][CO4]	[10M]
8	What are the Network traffic analysis?		[L5][CO4]	[10M]
9	What is Vulnerability assessment?		[L2][CO4]	[10M]
10	Difference between vulnerability management and vulnerability assessment?		[L3][CO4]	[10M]

UNIT –V
Introduction to backdoor System and security

1	Explain Backdoor system in Cyber security?	[L5][CO5]	[10M]
2	How to protect your device from Backdoor Attacks?	[L2][CO5]	[10M]
3	Brief study on Hardening of operating system.	[L6][CO5]	[10M]
4	a Explain single Firewall	[L2][CO5]	[5M]
	b Explain Dual Firewall	[L6][CO5]	[5M]
5	Explain Ransomware Attack in Brief	[L5][CO5]	[10M]
6	What is demilitarized zone(DMZ)?	[L2][CO5]	[10M]
7	What are Backdoor Trojans?	[L5][CO5]	[10M]
8	a What is metasploit	[L2][CO5]	[5M]
	a What are the Inferences of Digital Signature in Cyber security	[L6][CO5]	[5M]
9	What is System Hardening? Explain it in detail?	[L1][CO5]	[10M]
10	What is Network Hardening? Explain it in detail?	[L1][CO5]	[10M]

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