



SIDDHARTHA INSTITUTE OF ENGINEERING & TECHNOLOGY

(AUTONOMOUS)

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Puttur -517583, Tirupati District, A.P. (India)

QUESTION BANK (DESCRIPTIVE)

Subject with Code	(23CS1010) CYBER SECURITY AND DIGITAL FORENSICS	Course & Branch	B.Tech – CIC
Year & Sem	III & II	Regulation	R23

UNIT - I INTRODUCTION

1	a)	Define classifications of Cybercrime.	[L1][CO1]	[2 M]
	b)	What are the prevention of Cybercrime.	[L1][CO1]	[2 M]
	c)	List any two differences between PUP's and Teardrop Attack.	[L1][CO1]	[2 M]
	d)	Define the Whale Phishing Attacks and Spear Phishing Attacks.	[L1][CO1]	[2 M]
	e)	What is the difference Quid Pro Quo and Water Holing?	[L1][CO1]	[2 M]
2		Explain in detail the types of Cybercrimes in detail.	[L2][CO1]	[10 M]
3	a)	Explain the concept of different classifications of Cybercrime.	[L2][CO1]	[05 M]
	b)	Classify the different social engineering attack techniques	[L2][CO1]	[05 M]
4	a)	Describe the concept of the challenges and prevention of Cybercrime	[L2][CO1]	[05 M]
	b)	Explain the nature of cyber crime.	[L2][CO1]	[05 M]
5	a)	Explain the types of Cybercrimes in detail.	[L2][CO1]	[05 M]
	b)	Define Tailgating, Quid Pro Quo, Vishing, Water Holing, Pretexting.	[L2][CO1]	[05 M]
6	a)	Explain the types of Individual Cybercrime.	[L2][CO1]	[05 M]
	b)	Determine SQL Injections, DDOS attacks, Ransom ware, Brute Force attacks.	[L2][CO1]	[05 M]
7	a)	Differentiate Property and Individual Cybercrime.	[L2][CO1]	[05 M]
	b)	Explain Property Cybercrime in detail.	[L2][CO1]	[05 M]
8	a)	Explain the types of Individual Cybercrime.	[L2][CO1]	[05 M]
	b)	Define Social Engineering with examples.	[L2][CO1]	[05 M]
9	a)	Compare Individual and Government/Organization Cybercrime	[L2][CO1]	[05 M]
	b)	Explain the categories of Cybercrime in detail.	[L2][CO1]	[05 M]
10		What is the Authentication and Authorization?	[L2][CO1]	[10 M]
11		Demonstrate the three fragmentation of Cybercrime with a neat Flow chart	[L2][CO1]	[10 M]

UNIT – II**CYBER CRIME ISSUES**

1	a)	What is Computer Intrusion?	[L2][CO2]	[2M]
	b)	Differentiate between Viruses and Backdoor attacks.	[L2][CO2]	[2M]
	c)	What is the White Collar crime?	[L2][CO2]	[2M]
	d)	Name two Mail Bombs Attacks	[L2][CO2]	[2M]
	e)	Define Exploitation and Stalking?	[L2][CO2]	[2M]
2	a)	Explain the different strategies to prevent unauthorized access.	[L4][CO2]	[05 M]
	b)	Recall the White Collar crime. Explain its types.	[L4][CO2]	[05 M]
3		Explain in details about internet Hacking and Cracking	[L2][CO2]	[10M]
4		Explain the process of Computer Intrusion in detail.	[L2][CO2]	[10M]
5	a)	Explain in detail about Software Piracy	[L4][CO2]	[05 M]
	b)	Illustrate in brief about virus attacks.	[L2][CO2]	[05 M]
6	a)	Give brief description about types of Exploitation.	[L4][CO2]	[05 M]
	b)	Explain Trojans, Viruses, Worms and Backdoor attacks.	[L4][CO2]	[05 M]
7	a)	Explain in details about internet Hacking	[L3][CO2]	[05 M]
	b)	Explain in details about internet Cracking	[L3][CO2]	[05 M]
8		Distinguish Exploitation and Stalking?	[L2][CO2]	[10M]
9		Evaluate in detail about Mail Bombs.	[L2][CO2]	[10M]
10	a)	Explain the different strategies to prevent unauthorized access.	[L2][CO2]	[05 M]
	b)	Discuss the Cyber Security Laws in India.	[L3][CO2]	[05 M]
11	a)	Describe the Obscenity in Internet in detail.	[L4][CO2]	[05 M]
	b)	Analyze the role of Digital laws and legislation.	[L2][CO2]	[05 M]

UNIT-III
INVESTIGATION

1	a) Define the process of digital evidence collection.	[L3][CO3]	[2M]
	b) What is internetworking, and why is it necessary in computer networks?	[L2][CO3]	[2M]
	c) Name any two devices used in internetworking and briefly state their functions	[L2][CO3]	[2M]
	d) What is the primary function of the network layer in the OSI model?	[L3][CO3]	[2M]
	e) Differentiate between static routing and dynamic routing.	[L3][CO3]	[2M]
2	Explain in detail about digital evidence collection.	[L1][CO3]	[10M]
3	a) Explain the different Cybercrime Investigation technique.	[L2][CO3]	[05 M]
	b) Write about Data Carving and its limitations.	[L3][CO3]	[05 M]
4	a) What are the Password Attacks.	[L3][CO3]	[05 M]
	b) Explain IP tracking.	[L2][CO3]	[05 M]
5	a) Explain E-mail tracking.	[L2][CO3]	[05 M]
	b) Briefly state what is count to infinity problem.	[L3][CO3]	[05 M]
6	Give brief description about E-mail Investigation.	[L3][CO4]	[10M]
7	a) Discuss about steps in preserving digital evidence..	[L2][CO4]	[05 M]
	b) Explain the recovery process of deleted evidences.	[L2][CO4]	[05 M]
8	a) Explain the any two Investigation Tools.	[L1][CO4]	[05 M]
	b) Describe about Types of Evidence	[L2][CO4]	[05 M]
9	a) Explain about working of E-discovery.	[L2][CO4]	[05 M]
	b) Describe the term internetworking in network layer.	[L2][CO4]	[05 M]
10	a) Explain the concept of Encryption and Decryption Methods.	[L3][CO4]	[05 M]
	b) Explain how it is important in Encryption and Decryption modern communication systems?	[L2][CO4]	[05 M]
11	a) Explain the E-Mail Recovery,.	[L3][CO4]	[05 M]
	b) Explain about the Autopsy.	[L3][CO4]	[05 M]

UNIT-IV**DIGITAL FORENSICS**

1	a)	What is stages of Digital Forensics?	[L1][CO5]	[2M]
	b)	Define Terminal/Wound Ballistics	[L1][CO5]	[2M]
	c)	What is meant by Forensic Ballistics?	[L1][CO5]	[2M]
	d)	Describe Internal Ballistics?	[L2][CO5]	[2M]
	e)	Define External Ballistics?	[L2][CO5]	[2M]
2	a)	Explain Forensic Hardware and its different tools.	[L2][CO5]	[05M]
	b)	Explain the different Digital Forensics Techniques.	[L1][CO5]	[05M]
3	a)	Give brief description about Digital Forensics practices	[L4][CO5]	[05M]
	b)	Compare between Autopsy and The Sleuth Kit	[L4][CO5]	[05M]
4	a)	Illustrate in brief about Windows system Forensics.	[L2][CO5]	[05M]
	b)	Explain in detail about Linux system Forensics.	[L2][CO5]	[05M]
5		Evaluate Finger print Recognition in detail	[L5][CO5]	[10M]
6		Discuss in detail about Digital Forensics.	[L6][CO5]	[10M]
7	a)	ExplainTypes of Digital Forensics	[L2][CO5]	[05M]
	b)	Describe about Advantages of Digital forensics and Disadvantages of Digital Forensics.	[L2][CO5]	[05M]
8		Distinguish Face and IRIS Recognition.	[L4][CO5]	[10M]
9	a)	Explain Forensic Ballistics in details	[L1][CO5]	[05M]
	b)	Explain in detail Face Recognition and IRIS Recognition pros and cons	[L2][CO5]	[05M]
10	a)	What is the Audio Enhancement Techniques?	[L2][CO5]	[05M]
	b)	What is the Video Enhancement Techniques	[L1][CO5]	[05M]
11		Estimate the different Video and Audio Enhancement techniques.	[L6][CO5]	[10M]

UNIT-V**LAWS AND ACTS**

1	a)	Illustrate the P2P Architecture in Network Application Architectures.	[L3][CO6]	[2M]
	b)	Differentiate between HTTP and HTTPS.	[L4][CO6]	[2M]
	c)	What is the role of DNS in the Internet?	[L2][CO6]	[2M]
	d)	Illustrate the structure of high-level Internet e-mail system	[L3][CO6]	[2M]
	e)	What is meant by Content Distribution Networks (CDN) ?	[L1][CO6]	[2M]
2	a)	Explain Laws and Ethics in Cyber Security.	[L5][CO6]	[05 M]
	b)	Explain Digital Evidence and its Importance in Cyber Crime Cases	[L2][CO6]	[05 M]
3	a)	What is Chain of Custody? Explain its significance.	[L2][CO6]	[05 M]
	b)	Explain Evidence Handling Procedures in Digital Forensics.	[L3][CO6]	[05 M]
4	a)	Explain the Role of Ethics in Digital Forensics.	[L2][CO6]	[05 M]
	b)	Explain IPC and CrPC Provisions Relevant to Cyber Crime Investigations.	[L1][CO6]	[05 M]
5	a)	Explain Digital Evidence and its Types.	[L2][CO6]	[05 M]
	b)	Explain the Importance of the Chain of Custody in Digital Evidence Handling.	[L3][CO6]	[05 M]
6	a)	Explain Digital Evidence Preservation Techniques.	[L2][CO6]	[05 M]
	b)	Explain Ethical Responsibilities of a Digital Forensic Investigator.	[L2][CO6]	[05 M]
7		Explain the Role of IPC and CrPC in Cyber Crime Investigations	[L1][CO6]	[10 M]
8	a)	Explain the role of the Stored Communications Act under the Electronic Communication Privacy Act.	[L3][CO6]	[05 M]
	b)	Explain the objectives and scope of the Electronic Communication Privacy Act (ECPA).	[L2][CO6]	[05 M]
9	a)	Explain the Electronic Communication Privacy Act (ECPA) and its significance in cyber crime investigations.	[L2][CO6]	[05 M]
	b)	Explain the Importance of Evidence Handling Procedures in Cyber Forensics	[L4][CO6]	[05 M]
10	a)	Explain Ethical Issues Involved in Cyber Crime Investigations.	[L2][CO6]	[05 M]
	b)	Explain Digital Evidence Handling Procedures with Reference to Chain of Custody	[L3][CO6]	[05 M]
11		Discuss the Indian Evidence Act and its Role in the Admissibility of Digital Evidence.	[L6][CO6]	[10M]