



# NARSIMHA REDDY ENGINEERING COLLEGE

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## Department of Cyber Security

### CYBER CRIME INVESTIGATION AND DIGITAL FORENSICS (23CY602)

### UNIT WISE QUESTION BANK

UNIT-I				
S.No	Questions	BT	CO	PO
<b>Part –A(Short Answer Questions)</b>				
1	What is Digital Forensics?	L1	CO1	PO1
2	List any four objectives of Digital Forensics.	L1	CO1	PO1
3	What is Digital Evidence?	L1	CO1	PO1
4	Write the steps in the digital forensic process.	L1	CO1	PO1
5	What is Live Data Acquisition?	L1	CO1	PO1
6	What are the types of Digital Forensics?	L1	CO1	PO1
7	What is Chain of Custody?	L1	CO1	PO1
8	What are the properties of digital evidence?	L1	CO1	PO1
9	Define Malware Forensics.	L1	CO1	PO1
10	What is email forensics?	L1	CO1	PO1
11	Mention any two advantages of digital forensics.	L1	CO1	PO1
12	What is preservation in digital forensics?	L1	CO1	PO1
<b>Part– B(Long Answer Questions)</b>				
13	a) Explain the Digital Forensics process in detail.	L2	CO1	PO1
	b) Summarize the Objectives & Importance of Cyber Laws.	L2	CO1	PO1
14	a) Discuss the role of computers in Cyber Crime.	L2	CO1	PO1
	b) Explain sources of digital evidence with examples.	L2	CO1	PO1
15	a) Explain the challenges in handling digital evidence.	L2	CO1	PO1
	b) Discuss about the Cyber Crime Laws in India?	L1	CO1	PO1
16	a) Explain the principles of Digital Forensics.	L2	CO1	PO1
	b) Explain the advantages and disadvantages of Digital Forensics.	L2	CO1	PO1
17	a) Discuss the Key Objectives of Digital Forensics Science.	L1	CO1	PO1
	b) Explain different types of Digital Forensics with examples.	L1	CO1	PO1

**UNIT- II**

S.No	Questions	BT	CO	PO
<b>Part –A(Short Answer Questions)</b>				
1	What is Digital Investigation?	L1	CO2	PO1
2	Define identification in investigation process.	L1	CO2	PO1
3	What is forensic imaging?	L1	CO2	PO1
4	List any two challenges in digital investigation.	L1	CO2	PO1
5	What is the scientific method in digital forensics?	L1	CO2	PO1
6	Define examination and analysis.	L1	CO2	PO1
7	What is volatility?	L1	CO2	PO1
8	What are Autopsy tool used for?	L3	CO2	PO1
9	What is FTK?	L1	CO2	PO1
10	What is preservation in investigation?	L1	CO2	PO1
11	What is Cellebrite UFED?	L1	CO2	PO1
12	Define Wireshark.	L3	CO2	PO1

**Part– B(Long Answer Questions)**

13	a)	Explain digital investigation process model in detail.	L2	CO2	PO1
	b)	Discuss about surveying in digital investigation.	L2	CO2	PO1
14	a)	Explain scientific method and its steps in digital investigation.	L2	CO2	PO1
	b)	Discuss about the tools used in digital investigation.	L6	CO2	PO1
15	a)	Explain about the different types of digital investigations.	L2	CO2	PO1
	b)	Why the Scientific Method Matters in Digital Forensics.	L1	CO2	PO1
16	a)	How to handle a Digital Crime Scene in Forensic Science.	L2	CO2	PO1
	b)	Discuss about preserving in digital investigation.	L2	CO2	PO1

UNIT-III						
S. No	Questions			BT	CO	PO
<b>Part –A(Short Answer Questions)</b>						
1	What is violent crime in digital context?			L1	CO3	PO1
2	What are digital footprints?			L1	CO3	PO1
3	What is timeline reconstruction?			L1	CO3	PO1
4	Define metadata.			L1	CO3	PO1
5	What is digital evidence as alibi?			L1	CO3	PO1
6	What are the challenges in violent-crime investigations?			L1	CO3	PO1
7	What is forensic imaging?			L1	CO3	PO1
8	Mention two roles of computers in violent crime.			L3	CO3	PO1
9	What is investigative reconstruction?			L1	CO3	PO1
<b>Part– B(Long Answer Questions)</b>						
10	a)	Explain the role of computers in violent crimes.		L2	CO3	PO1
	b)	Discuss about the key connections between violent crime & digital investigation.		L2	CO3	PO1
11	a)	Explain investigative reconstruction with an example.		L2	CO3	PO1
	b)	What are the fundamental steps in processing a digital crime scene?		L6	CO3	PO1
12	a)	Explain digital evidence as an alibi.		L2	CO3	PO1
	b)	Explain in detail about the processing of digital crime scene.		L1	CO3	PO1
13	a)	Discuss about the investigative techniques, challenges and examples in violent crime digital investigation.		L2	CO3	PO1
	b)	Write a short note on Legal Consideration & examples in digital evidence.		L2	CO3	PO1

UNIT-IV				
S.No	Questions	BT	CO	PO
<b>Part –A(Short Answer Questions)</b>				
1	Define Cyberstalking.	L1	CO4	PO1
2	What are the types of cyberstalking?	L1	CO4	PO1
3	What is the impact of cyberstalking?	L1	CO4	PO1
4	What is a file system?	L1	CO4	PO1
5	What is NTFS?	L1	CO4	PO1
6	What is registry in Windows OS?	L1	CO4	PO1
7	What is metadata?	L1	CO4	PO1
8	What are system logs?	L3	CO4	PO1
9	What is forensic imaging?	L1	CO4	PO1
10	What is File System Artifacts?	L3	CO4	PO1
<b>Part– B(Long Answer Questions)</b>				
11	Explain cyberstalking, its forms, and consequences.	L2	CO4	PO1
12	Explain computer basics required for digital forensics.	L2	CO4	PO1
13	Explain application of forensic science to computers.	L2	CO4	PO1
14	Explain digital evidence artifacts in Windows systems.	L2	CO4	PO1
15	Discuss about the core principles of Forensic Science.	L2	CO4	PO1
16	Explain digital evidence in UNIX/Linux systems.	L2	CO4	PO1

UNIT-V				
	Questions	BT	CO	PO
<b>Part –A(Short Answer Questions)</b>				
1	Define Network Forensics.	L1	CO5	PO1
2	What is packet capture?	L1	CO5	PO1
3	What is Net Flow?	L1	CO5	PO1
4	Define IP address and MAC address.	L1	CO5	PO1
5	What is DNS log?	L1	CO5	PO1
6	What is deep packet inspection?	L1	CO5	PO1
7	What is the OSI model?	L1	CO5	PO1
8	What is TCP handshake?	L3	CO5	PO1
9	What is ARP spoofing?	L1	CO5	PO1
10	What is network evidence?	L3	CO5	PO1
<b>Part– B(Long Answer Questions)</b>				
11	Explain network forensics and its objectives.	L2	CO5	PO1
12	Discuss forensic evidence at physical and data link layers.	L2	CO5	PO1
13	Explain evidence at network and transport layers.	L2	CO5	PO1
14	Explain application of forensic science in networks.	L2	CO5	PO1
15	Discuss about the core network concepts for digital investigators.	L2	CO5	PO1
16	Summarize the core principles of forensic science to networks.	L2	CO5	PO1

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