LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(AUTONOMOUS)
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ASSIGNMENT QUESTIONS

Name of Course Instructor: M. Vijay Kumar **Reg**: R20
Course Name & Code : 20IT84-Cyber Security & Digital Forensics
L-T-P Structure : 3-0-0 **Credits:** 3
Program/Sem/Sec : B.Tech.–Civil/VI Sem/ **A.Y.:** 2023-24

CYCLE-II

Q.No	Question Description	Unit #	CO#	BL
1	Evaluate the effectiveness of different forensic tools and techniques available for database analysis.	III	CO3	L5
2	Compare and contrast different malware analysis techniques and tools to determine the most effective approach for investigating the incident.	III	CO3	L3
3	Analyze a hypothetical cybercrime scenario involving data theft from a company's servers. Evaluate and compare different methods of evidence collection, including volatile and non-volatile data sources.	IV	CO4	L4
4	Develop a systematic approach for correlating file system events with registry changes to uncover evidence of malicious activity.	IV	CO4	L5
5	Evaluate the types of information stored in browser history, cookies, cache, and other artifacts.	IV	CO4	L4
6	Evaluate the challenges associated with preserving, authenticating, and presenting digital evidence in a court of law.	IV	CO4	L5
7	Develop a data recovery plan that outlines the steps, tools, and techniques to be employed in recovering crucial evidence.	V	CO5	L5
8	Analyze the significance of forensic tools for encryption/decryption in digital forensic investigations.	V	CO5	L4
9	Analyze the role of forensic tools in investigating network security incidents.	V	CO5	L4
10	Evaluate the functionality and utility of various tools designed for email forensics, including those used for email recovery, metadata analysis, and email content examination.	V	CO5	L5

Title	Course Instructor	Course Coordinator	Module Coordinator	Head of the Department
Name of the Faculty	M. Vijay Kumar	Dr. K. Phaneendra	Dr. K. Phaneendra	Dr. B. Srinivasa Rao
Signature				