



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(AUTONOMOUS)

Accredited by NAAC with 'A' Grade & NBA (Under Tier - I)

An ISO 21001:2018, 14001:2015, 50001:2018 Certified Institution

Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada

L.B. REDDY NAGAR, MYLAVARAM, KRISHNA DIST., A.P.-521 230.

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DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY

ASSIGNMENT QUESTIONS

Name of Course Instructor: Dr. Phaneendra Kanakamedala

Reg: R23

Course Name & Code : CYBER SECURITY - 201T05

L-T-P Structure : 3-0-0

Credits: 3

Program/Sem/Sec : B.Tech.-CS&IT, Sec-A, Sec-B

A.Y: 2026-27

CYCLE-I

Q.No	Question Description	Unit #	CO#	BL
1	Develop a detailed personal safety blueprint against cyberstalking. Identify key protective measures across online platforms and digital devices, and analyze the specific security mechanism behind each measure that helps safeguard individual privacy.	I	CO1	L5
2	Evaluate the legal mechanisms governing public internet access points. How effective are current cyber laws in preventing and prosecuting offenses originating from cybercafés? In your analysis, address the key jurisdictional limitations, anonymity issues, and enforcement obstacles law enforcement faces.	I	CO1	L5
3	Construct a detailed end-to-end scenario illustrating a Botnet-driven Distributed Denial of Service (DDoS) attack. Your case study should detail three distinct phases: 1. Setup: Infection vector and command-and-control (C2) architecture. 2. Execution: Attack orchestration and traffic amplification methods. 3. Impact: System degradation, operational downtime, and financial/reputational damage.	I	CO1	L5
4	Critique the role of Mobile Device Management (MDM) in modern enterprise security. Assess how effectively MDM solutions mitigate risks associated with mobile endpoints (smartphones and tablets), highlighting potential security gaps or user privacy trade-offs.	I	CO1	L4
5	Investigate the role of human psychology in network breach vectors. Analyze how social engineering tactics bypass traditional technical controls, and design a multi-layered security strategy (combining technical controls and organizational policy) to reduce human-centric risk.	II	CO1	L4
6	Critically assess proxy servers and anonymization tools (e.g., VPNs, Tor) in digital privacy. How reliable are these technologies for maintaining	II	CO1	L5



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	online anonymity, and what technical methods can be used to detect, trace, or misuse them?			
7	Trace the evolutionary trajectory of modern phishing techniques. Analyze how advanced phishing attacks (e.g., spear phishing, BEC, AI-generated lures) bypass multi-factor authentication (MFA) and secure email gateways (SEGs).	II	CO2	L4
8	Demonstrate how defensive coding practices prevent Structured Query Language (SQL) injection. Contrast raw input handling with input validation and parameterized queries (prepared statements), explaining mathematically or programmatically how these controls neutralize malicious payloads.	II	CO2	L4
Title	Course Instructor	Course Coordinator	Module Coordinator	Head of the Department
Name of the Faculty	Dr. K. Phaneendra	Dr. K. Phaneendra	Dr. G. Rajendra	Dr. D. Ratna Kishore
Signature				