

Course Code: 23CSE3E03
**BONAM VENKATA CHALAMAYYA INSTITUTE OF TECHNOLOGY &
 SCIENCE(AUTONOMOUS)**

II - M.Tech III-Semester Regular Examinations (BR23), Dec - 2024

PRINCIPLES OF CYBER SECURITY (CSE)

Time: 3 hours

Max. Marks: 75

*Answer any Five Questions One Question for One UNIT
 ALL the Question Carry Equal Marks*

UNIT-I		Marks	CO	BL
1.a)	Discuss about objectives and roles of Cyber security	7M	CO1	BL2
b)	Explain about online frauds with an example. How to survive from them?	8M	CO1	BL3
OR				
2.a)	Differentiate between Information Security & Cyber security	7M	CO1	BL3
b)	Explain about Cyber security Principles in details	8M	CO1	BL4
UNIT-II		Marks	CO	BL
3.a)	Explain about Information Security in Lifecycle management	7M	CO2	BL4
b)	Define Security architecture. Give an example for Security architecture tools and frameworks.	8M	CO2	BL2
OR				
4.a)	Write a short notes on (i) Risks & (ii) Vulnerabilities.	7M	CO2	BL2
b)	Explain the concepts of Intermediate lifecycle managements.	8M	CO2	BL3
UNIT-III		Marks	CO	BL
5.a)	Explain in detail about different categories and recovery of Incident.	7M	CO3	BL3
b)	Illustrate the concept of Digital and data assets.	8M	CO3	BL3
OR				
6.a)	Define ports and protocols. Discuss in detail about Protection Technologies.	7M	CO3	BL2
b)	Explain the roles of configuration management in Operational security protection.	8M	CO3	BL3
UNIT-IV		Marks	CO	BL
7.a)	Explain the process for Vulnerability management.	7M	CO4	BL4
b)	Explain in detail packet capture and analysis.	8M	CO4	BL4
OR				
8.a)	Discuss in detail about Network traffic Analysis.	7M	CO4	BL2
b)	Explain about Security Logs and Alerts.	8M	CO4	BL3
UNIT-V		Marks	CO	BL
9.a)	Explain about Digital Signatures schemens.	7M	CO5	BL3
b)	Demonstrate brief study on Harding of operating system.	8M	CO5	BL3

OR				
10.a)	Explain about DMZ in detail.	7M	CO5	BL2
b)	Illustrate Metasploit and Explain Various components of Metasploit	8M	CO5	BL2

Course Outcomes: At the end of the course, student will be able to

CO1: Apply cyber security architecture principles.

CO2: Describe risk management processes and practices.

CO3: Appraise cyber security incidents to apply appropriate response

CO4: Distinguish system and application security threats and vulnerabilities.

CO5: Identify security tools and hardening techniques



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