

**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**

1.a) Briefly discuss about objectives of Cyber Security.	7M	CO1	BL2
b) Write a short notes on i) Authentication ii) Non repudiation	8M	CO1	BL2
<b>OR</b>			
2.a) Define Cyber Security. Discuss about roles of cyber security.	7M	CO1	BL2
b) Differentiate between Information Security & Cyber security	8M	CO1	BL4

**UNIT-II**

3.a) Discuss about life cycle management landscape in detail.	7M	CO2	BL2
b) Define attack. Explain about classes of attacks in detail.	8M	CO2	BL2
<b>OR</b>			
4.a) Briefly discuss about operational threat environments.	7M	CO2	BL2
b) Write a short notes on i) Risks ii) Vulnerabilities	8M	CO2	BL2

**UNIT-III**

5.a) Define Incident. Discuss about incident recovery with suitable example.	7M	CO3	BL3
b) Briefly discuss about the protection of Digital and data assets.	8M	CO3	BL2
<b>OR</b>			
6.a) Discuss the role of ports and protocols in operational security protection.	7M	CO3	BL2
b) Discuss about identity and access management in operational security protection.	8M	CO3	BL2

**UNIT-IV**

7.a) Explain how security logs are helpful in vulnerability management.	7M	CO4	BL2
b) Discuss about Monitoring Tools and appliances in Threat Detection.	8M	CO4	BL2
<b>OR</b>			
8.a) Briefly discuss about Threat detection and evaluation mechanisms.	7M	CO4	BL2
b) Discuss about packet capture and analysis in detail.	8M	CO4	BL2

**UNIT-V**

9.a) What is meant by Demilitarized zone in Cyber Security? Explain.	7M	CO5	BL2
b) Discuss about the components in Metasploit in detail.	8M	CO5	BL2
<b>OR</b>			
10.a) What is backdoor in cyber security? How it can be prevented.	7M	CO5	BL2
b) What is Digital Signature? Explain how it works.	8M	CO5	BL2

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