

ASSIGNMENTS

Name of subject: **COMPUTER SECURITY**

Subject code: **17514**

Semester: **V**

Course : **CO**

ASSIGNMENT NO 1	
CHAPTER NO 1: Introduction to computer security and security trends [22 marks]	
Q NO:	3marks QUESTIONS
1.	Explain man in the middle attack
2.	Explain and list different types of attacks? Explain any one in detail.
3.	State the steps in attack
	4marks QUESTIONS
4.	List the basic principle of computer security? Explain any four of them in detail
5.	Explain insider threat in detail
6.	Explain active and passive attack
7.	Define following terms: i) sniffing ii) spoofing iii) worms iv) backdoors & trapdoors
ASSIGNMENT NO 2	
CHAPTER NO 2: Identification, Authentication and Operational Security [20 marks]	
	3marks QUESTIONS
1.	What is biometric? List different types of biometric
2.	Explain dumpster diving
	4marks QUESTIONS
3.	Describe piggy backing and shoulder surfing.
4.	State and explain any 4 password selection policies.
5.	Explain physical security.
6.	Explain installing unauthorized software and hardware.
7.	Explain the classification of social engineering.
8.	Explain role based access control (RBAC).
	CHAPTER NO 3: CRYPTOGRAPHY [16 marks]
	CHAPTER NO 3: CRYPTOGRAPHY
	3 marks QUESTIONS
1.	What is Plain Text? What is cipher text?
2.	Explain the term Steganography.
3.	What is encryption?
	4 marks QUESTIONS
4.	Explain Caesar's cipher encryption technique considering text as "HAPPY BIRTHDAY TO YOU"
5.	'Come Home tomorrow 'converts it into cipher text using Caesar's cipher method
6.	What is cipher? Convert "Welcome to Computer

	World” into cipher text using Rail Fence transposition technique.
7.	Explain Rail fence technique with suitable example?
8.	Explain the term Encryption, Cryptography, Cryptanalysis and cryptology?
9.	Explain the concept of Hashing.
10.	Explain Caesar’s Cipher technique with suitable example.
CHAPTER NO 4: COMPUTER SECURITY TECHNOLOGY & INTRUSION DETECTION [24 marks]	
3marks QUESTIONS	
1.	What is Firewall? List different types of firewall.
2.	What is Security Topology? List different types of security zone.
4marks QUESTIONS	
3.	What is Kerberos? Explain with diagram different servers involved in Kerberos.
4.	Explain IDS in detail.
5.	Explain E-mail security in details.
6.	How IPSec works in security? Explain in detail.
7.	Explain VLAN, types of VLAN and tunneling.
8.	Explain the working of host based Intrusion detection System.
ASSIGNMENT NO 5	
CHAPTER NO 5: IT Act and Cyber law [10 marks]	
3marks QUESTIONS	
1.	What is cyber-crime? How do you define it?
2.	How do we classify cyber-crime? Explain each in detail.
3.	What are the different types of cyber criminals?
4.	What is hacking and cracking?
4marks QUESTIONS	
5.	What is cyber law? Mention in detail IT act 2000.
CHAPTER NO 6: APPLICATION AND WEB SECURITY [08 marks]	
4marks QUESTIONS	
1.	Explain web security threats approaches.
2.	Explain web traffic security approaches.
3.	Describe the architecture of SSL and list its protocols.
4.	Describe SSL protocol stack with suitable sketch.
5.	Describe Secure Electronic Transaction process.
6.	Explain web server and active directory.