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		Time: 3nrs Total Mark	s: 100
Note:	e: 1. Question No. 1 is compulsory 2. Attempt any four out of remaining six questions 3. Illustrate answers with sketches wherever required.		
Q1.	a.	What is cryptography? Compare Symmetric Key Cryptography and Asymmetric Key Cryptography.	[10]
	b.	Explain in detail PGP.	[10]
Q2.	a	Explain Diffie Hellman key exchange protocol with a suitable example. How can this mechanism be foiled by an attacker?	[10]
	b.	Explain different algorithm modes.	[10]
Q3.	a.	Define network security? What are the services and mechanisms provided by network security?	[10]
	b.	Give Comparison of MD5 and SHA-1.	[10]
Q4.	a.	What is Ticket Lifetime? Distinguish between Renewable Tickets and Postdated Tickets.	[10]
	b.	Explain mutual authentication and reflection attack with the help of diagram. Suggest two methods to fix it.	[10]
Q5.	a.	Explain SSL Architecture.	[10]
	b.	What are the various types of Malware? Explain in detail	[10]
Q6.	a.	Explain working of Kerberos. How is Kerberos V5 different from V4?	[10]
	b.	Explain the security mechanism used on the electronic transactions	[10]
Q7.	2 4 2 4	Write short notes on any four	[20]
	a.	Certificate Revocation.	
	b.	Digital Signature	
	\mathbf{c}	IPSec	
	d. :	Biometrics	
	e.0	El-Gamal signatures	