GUJARAT TECHNOLOGICAL UNIVERSITY MCA - SEMESTER- V EXAMINATION – SUMMER 2016

Subject Code: 650002Date: 06/03Subject Name: Network SecurityTime:10.30 am to 01.00 pmInstructions:Total Mail			/05/ 2016	
		:ks: 70		
1115	1. 2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a)	 Do as directed Active & Passive attack. Message Confidentiality Non repudiation Digital Signature honey pot Message Integrity 	07	
	(b)	 Non Repudiation Differentiate between Security Threat and Security Attack. What is meant by the term "Hacking"? What is a key ring in PGP? Give one major difference between a stream and a block cipher. What is Stateful firewall? Explain Authentication server. Explain Trojan horse defense. 	07	
Q.2	(a) (b)		07 07	
	(b)	Mention and briefly explain any five properties necessary for a hash function to be useful for message authentication.	07	
Q.3	(a)	Briefly explain any five fields/elements of the format of X.509 Public Key Certificate.	07	
	(b)	Write any four important differences between Kerberos version 4 and 5. OR	07	
Q.3	(a) (b)	How PGP constructs a secure mail? Write the steps involved in the process. Discuss IP security. Briefly explain its architecture.	07 07	
Q.4	(a) (b)	Mention and briefly explain the services available in PGP. Discuss the concept of ESP.	07 07	
Q.4	(a) (b)	OR How enveloped data is constructed in SMIME. Write all steps for the same. What are intruders? Briefly explain its category.	07 07	
Q.5	(a) (b)	What is intrusion detection? Explain: Rule based Intrusion Detection. Why web security is more important issue today? List at least four reasons for the same.	07 07	
Q.5	(a)	OR Draw the schematic diagrams of popular firewall configurations/topologies.	07	
	(b)	Discuss the general guidelines for creating a good password.	07	
