Seat No.: _____ Enrolment No.____

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER-V • EXAMINATION - WINTER • 2014

	•		1-12-2014	
Tiı	•	1	Marks: 70	
	1. 2.	 Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. 		
Q.1	(a)			07
	(b)	 d) Data Integrity e) Availability f) Cipher g) 1) Write a short note on: Various types of Cryptographic attacks 2) Mention two major benefits of using CBC mode compared to the for a given cipher. Mention any one major disadvantage of CBC 	e ECB mode	04
Q.2	(a)		ption based	04
	(b)	system. 1) Explain the process of generating the public and private k algorithm. 2) Briefly explain: Certificate Revocation List (CRL).		04
	(b)	OR 1) Mention and briefly explain any four environmental difference Kerberos Version 4 and Version 5. 2) Explain with a block diagram how a public key certificate is used		04
Q.3	(a)	 Explain Private Key Ring with reference to PGP. Mention and briefly explain any three applications of IPSEC. 		04 03
	(b)	 Explain with the help of a diagram the generic message sending p PGP. Explain the difference between transport mode and tunnel mode owith respect to IPSEC. 		04 03
		OR		
Q.3	(a)			04 03
	(b)	 Explain Public Key Ring with respect to PGP. Mention and very briefly explain the various uses of Padding in I 	PSEC.	04 03
Q.4	(a)	their countermeasures.	and	04
		2) Mention and briefly explain various classes of Intruders.		03
	(b)	 Mention and briefly explain Fatal SSL Alerts Messages. Briefly Explain: Statistical Anomaly Detection with respect to ID 	S.	04 03
		OR		
Q.4	(a)	 Mention and briefly explain Non Fatal SSL Alert Messages. Briefly Explain: Rule based Detection with respect to IDS. 		04 03

	(b)	1) Write a short note on: SSLSessionState	04
		2) Briefly explain any three metrics which are useful for profile based Intrusion detection.	03
Q.5	(a)	1) Briefly explain with respect to a firewall: a) Service Control b) Direction Control c) User Control d) Behavior Control	04
		 Mention and briefly explain any three commonly used techniques for password generation. 	03
	(b)	1) Briefly explain the limitations of a firewall.	04
	()	2) Mention and briefly explain any three rules for creating a good password.	03
		OR	
Q.5	(a)	1) Mention and briefly explain the criteria/parameters on the basis of which a typical packet filtering firewall filters packets.	04
		2) Mention and briefly explain the reasons why a dictionary based approach for dealing with bad passwords is not practical.	03
	(b)	1) Briefly explain: Bastion Host with respect to a Firewall.	04
		2) Mention and briefly explain any three drawbacks of a packet filtering firewall.	03
