TELITIVE (Rev.) 12/5/12 INS

53: 1st half-12-(i)JP

Con. 3731-12.

GN-7332

		(3 Hours)	[Total Marks : 100
N.B.	(1) (2) (3)	Answer any four out of the remaining questions.	
Q1. (a) Co	onsider an online fees payment system. People will cast the	heir votes through the
	In	ternet. For this system identify vulnerability, threat and a	ttacks. (0
(b) D	efine the terms Confidentiality, Integrity and Availability	. Give one example each of
	tw	o attacks each that violates these goals.	(05)
(c) De	escribe any two non malicious program flaws.	(05)
(d) Ex	xplain the session hijacking attack with an example.	(05)
Q 2. ((a) E	xplain clearly the differences between block and stream of	ciphers. (10)
(b) G	ive a list of network vulnerabilities with an example each	1. (10)
Q3.(a) Di	fferentiate between public and private key cryptosystems.	Give Examples of each type
	of c	eryptosystem.	(10)
	(b) V	Write a note on different authentication methods.	(10)
Q.4. (a) D	escribe the various types of viruses that can infect a syste	em. (10)
()	y W	hat is the role of a firewall in securing a network? Descri	be different types of
	f	irewalls.	(10)
Q.5 (a) U	se two prime numbers p=3, q=5, and explain the full wor	king of the RSA
	C	Cryptosystem.	(10)
(b) E	xplain any two access control mechanism. Indicate clearly	y the advantages and
	di	sadvantages of each scheme.	(10)
Q.6 (xplain the protocol flaws existing in the TCP/IP model the	at can lead to security
		cidents & how to overcome them.	(10)
	(b) \	What is the role of hashing? Explain any one hashing algo	orithm. (10)
Q.7.		te a detailed note on any one of the following topics:	
	3	a) Intrusion Detection Systems (10)	
	- (b) Secure Sockets Laver (SSL) (10)	