B.E. Eighth Semester (Information Technology) (CGS)

10760 : Network Administration & Security : 8 IT 02

P. Pages : 2 | AU - 3037

Time : Three Hours | Max. Marks : 80

* 0 6 9 4 *

Notes : 1. Due credit will be given to neatness and adequate dimensions.
2. Assume suitable data wherever necessary.
3. Illustrate your answer necessary with the help of neat sketches.
4. Use of pen Blue/Black ink/refill only for writing the answer book.

1.	a)	Explain the conventional Encryption scheme. How cryptographic systems are classified.	7
	b)	Explain the model for network security.	7
		OR	
2.	a)	Explain the category of passive and active attacks.	7
	b)	What is RFC? Explain the RFC publication procedure.	7
3.	a)	What is Digital signature? Explain how digital signature works.	7
	b)	Compare DES, 3DES with AES Algorithm.	6
		OR	
4.	a)	Explain how message digest is generated by using SHA-512?	7
	b)	Explain model of conventional encryption.	6
5.	a)	State the problem of Kerberos. Explain simple authentication algorithm with AS and TGS for Kerberos version 4.	7
	b)	What is PGP? Explain its operation with suitable diagram.	6
		OR	
6.	a)	Explain key management function performed by a S/MIME user.	7
	b)	Explain X.509 certificate ferment in detail.	6
7.	a)	Explain web security, threats consequences and counter measures.	7
	b)	With neat diagram explain SET transaction type.	7
		OR	
8.	a)	What is SSL? Record protocol? Explain by using suitable diagram.	7
	b)	What is IPSEC? Explain authentication header with it's scope.	7

9.	a)	Explain	**6**
		i) Management station	
		ii) Management Agent	
		iii) MIB	
	b)	Explain $SNMPV_2$ message processing model with suitable diagram.	**7**

OR

10.	a)	Compare $SNMPV_1$, $SNMPV_2$ and $SNMPV_3$.	**6**
	b)	What is SNMP? Explain it's authentication, access control and proxy service.	**7**
11.	a)	Explain Taxonomy of malicious program.	**7**
	b)	What are various password selection strategies? Explain in detail.	**6**

OR

12.	a)	Explain Firewall characteristics along with types of firewalls.	**7**
	b)	Explain the role of compression in the operation of a virus.	**6**

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