USN					



10CS/IS835

Eighth Semester B.E. Degree Examination, June/July 2016 Information and Network Security

Time: 3 hrs.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, w... Je treated as malpractice.

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Important Note: 1. On completing your answers, co

Max. Marks: 100

(06 Marks)

Note: Answer FIVE full questions, selecting at least TWO questions from each part.

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		PART A)
1	a.	Briefly explain the components of issue specific security policy.	(08 Marks)
	b.	Discuss various stages in a Incident response planning strategy.	(08 Marks)
	c.	Write and define different levels of controls in a security Architecture.	(04 Marks)
		and the second of the second o	(04 Maiks)
2	a.	Explain different categories of Firewalls according to their processing mode.	(10 Marks)
	b.	Define any six design rules of Firewall.	(06 Marks)
	c.	Discuss content filter technology in a security.	(04 Marks)
			(04 Mai ks)
3	a.	Explain Host based intrusion detection system. Write its advantages and disadva	ntages
		. 9	(08 Marks)
	b.	Discuss port scanning and Vulnerability scanning tools.	(08 Marks)
	c.	Define the following terms with respect to intrusion detection system:	
		i) Alert ii) False positive iii) False negative iv) Confidence value.	(04 Marks)
4	a.	Describe any four attacks on a cryptosystem.	(08 Marks)
	b.	Explain substitution cipher technique. Discuss its weakness.	(08 Marks)
	C.	in a second with the second to dryptography.	
		i) Encryption ii) Cipher iii) Keyspace iv) Strganography.	(04 Marks)
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-		PART - B	
5	a.	Write and explain the general format of a X.509 public key certificate.	(08 Marks)
	b.	- and version 5.	(06 Marks)
	C.	Explain any Three Active security attacks.	(06 Marks)
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6	a.	Explain the PGP message generation and message reception technique.	(10 Marks)
	b.	Briefly explain the header fields of MIME protocol.	(05 Marks)
	C	What is S/MIME? What are the functions of S/SMIME?	(05 Marks)
4	0	Describe the CA mercureture and CA 1	
1/1/	h.	Describe the SA parameters and SA selectors of a IPSec.	(10 Marks)
9	b.	Draw and explain the header format of ESP protocol.	(06 Marks)
	C.	Mention the applications of IPSec.	(04 Marks)
8	a.	Explain different phases in a SSL Handshake protocol.	(40.37
0	b.		(10 Marks)
	c.	Discuss the need and construction of a Deal in the incident of the construction of a Deal incident of the construction of a Deal incident of the construction of the c	(04 Marks)

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c. Discuss the need and construction of a Dual-signature in a SET protocol.