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10CS/IS835

Eighth Semester B.E. Degree Examination, June/July 2018 Information and Network Security

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions, selecting atleast TWO questions from each part.

PART - A

1	a.	With a block diagram, explain how policies, standards, practices, procedures and	guidelines
		are related.	(05 Marks)
	h	Explain enterprise information security policy and issue specific security policy.	(10 Marks)
	٠.	Mantian the aritoria to be met for the policy to be effective and enforceable.	(05 Marks)

2	a.	Describe the categories of firewalls based on processing modes.	(10 Marks)
		What is VPN? Explain the different modes of VPN.	(10 Marks)
	n.	what is ven a Explain the different modes of vity.	(10 1:1221-14)

3	a Explain the various IDPS detection methods.	(10 Marks)
<	b. What are honey pots, honey nets and padded cell systems?	(03 Marks)
V.	List the advantages and disadvantages of using honey pots or padded cell.	(07 Marks)

2 1)				2/7
17.		Describe symmetric encryption and as	symmetric encryption with suitable	examples
74	a.	Describe symmetric encryption and as	Symmetric cheryption with suitable	Cattle Pies.

(06 Marks)

b.	Define	the	foll	owing	
				1000	

- i) Authentication
- ii) Integrity
- iii) Privacy

iv) Non-repudiation.c. Explain different types of attacks on cryptosystems.

(04 Marks)

(10 Marks)

PART - B

5	a.	With a neat diagram explain network security model. Mention the four	basic tasks in
		designing security service	(06 Marks)
	b.	List the differences between Kerberos version 4 and version 5.	(10 Marks)
		Draw X·509 certificate format.	(04 Marks)

О.	Draw X-309 certificate format.	(
b.	With neat diagrams explain PGP authentication and confidentiality functions. Describe S/MIME functionality. How are the certificates processed in S/MIME?	(10 Marks) (05 Marks) (05 Marks)
C.	How are the certificates processed in 5/14/14/12.	
a.	Discuss the Anti-Replay service provided by authentication header of IPSec.	(05 Marks)

		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	(05 Marks)
7	a.	Discuss the Anti-Replay service provided by authentication header of IPSec.	(
	b	Draw and explain ESP format. What is the significance of padding bytes?	(10 Marks)
	c.	List the features that characterize the Oakley algorithm.	(05 Marks)

8	a.	Explain SSI handshake protocol with a neat diagram.	(10 Marks)
Ü		List the key features of SET.	(04 Marks)
	c.	What is dual signature in SET? Explain with diagram.	(06 Marks)



2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice. Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.