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10CS/IS835

USN

Eighth Semester B.E. Degree Examination, Dec.2019/Jan.2020 Information and Network Security

Time: 3 hrs.

Max. Marks:100

(10 Marks)

(10 Marks)

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

		at least TWO questions from each part.	
		PART - A	
1	-	Explain the three types of security policies defined in planning security.	(10 Marks)
1	a. b.	Describe the major steps involved in contingency planning with neat diagram.	(10 Marks)
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2	a.	What are firewalls? Explain the processing modes of firewalls.	(06 Marks)
_	b.	Give the best practices for firewall.	(06 Marks)
	c.	How do you protect remote connections? Explain.	(08 Marks)
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3	a.	List the organizational requirements and constraints involved in designing	Intrusion
		Detection System (IDS)	(06 Marks)
	b.	Compare Honey pots, Honey nets and padded cell systems.	(06 Marks)
	c.	How to deploy and implement IDS? Explain.	(08 Marks)
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4	a.	Define Cryptography, Cryptosystems and Cryptanalysis.	(06 Marks)
	b.	Compare substitution ciphers with transposition ciphers.	(06 Marks)
	c.	Describe any two types of Cryptographic tools.	(08 Marks)
		PART - B	
5	a.	Compare Kerberos version 4.0 with 5.0.	(06 Marks)
	b.	Describe the various security mechanisms defined in X.800 services.	(06 Marks)
	c.	Explain the modes network security with the aid of diagram.	(08 Marks)
6	a.	What is PGP? Explain the PGP cryptographic functions with neat diagrams.	(10 Marks)
	b.	Explain the MIME content types of S/MIME functionalities.	(10 Marks)
7	a.	Give the application and benefits of IP security.	(06 Marks)
	b.	How the Oakley key determination protocol is different from Diffie – Hellman	
		Explain.	(06 Marks)
	c.	Explain Authentication Header and ESP protocol with formats.	(08 Marks)
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What is SET? Explain how the cardholder sends purchase request via SET.

Explain SSL protocol architecture in detail.