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T. E. Sem-II (CBSGS) IT - SWS

7/12/16

System and Web security

Q.P. Code: 594902

(3 Hg	urs)
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[Total Marks: 80

N.B.: (1) Question No. 1 is com	pulsory
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(2) Attempt any THREE Questions out of remaining FIVE questions.

1.	(a) (b)	Give two techniques to establish a covert channel. Compare and contrast discretionary access control and mandatory access control.	5
	(c) (d)	Define with examples i) SQL injection ii) Cross-site scripting. What are the different phases of a virus? Explain.	5
2.	(a) (b)	are to the first	10 10
3.	(a)	What is a firewall? Explain different types of firewalls and specify at which layer of the Internet stack do they operate?	10
	(b)	What is a denial of service attack? Discuss different ways in which an attacker can mount a DOS attack.	10
4.	(a)	each in transport and tunnel mode.	10
	(b)	What is an IDS? How does it differ from a honeypot? Discuss the different types of IDS.	10
5.	(a) (b)	Explain the process of generation and verification of digital certificate. With respect to SSL protocol explain the following: (i) Generation of master Key (ii) Authentication of server to client.	10 10
6.		ite short notes on (any four): (a) Windows Security (b) Federated Identity Management (c) Software Reverse Engineering (d) Knapsack cryptosystem	20
		(e) Non-malicious programming errors	