Paper / Subject Code: 37303 / SYSTEM AND WEB SECURITY

	(3 Hours)	Total Marks: 80]
	N.B.: (1) Question No. 1 is compulsory.	
	(2) Solve any three questions out of remaining five.	
	(3) Figures to right indicate full marks.	
	(4)Assume suitable data where necessary .	
1.	a) Explain Biometric authentication.	
	b) Explain Vulnerability, Threat and Attack.	5 (5)
	c) What is Distributed Denial of Service Attack?	(5]
	d) Describe TCP Syn Flood attack.	[5]
2.	a) Explain different types of Firewalls that can be used to secure a network.	
	b) Explain RSA algorithm for public key encryption. Given modulus $N = 14$	CA 101, 015 170 1 VA 120 1 VA
	public key = 7, find the values of p, q, phi(n), and pivate key d. Can we c value of $e = 5$? Justify.	_Y
3.	a) What is Digital Signature? Explain how it is created by sender and verific receiver.	ed by [10]
	b) What is session hijacking? Give two ways to prevent a session hijacking	attack. [10]
4.	a) What are the different approaches to Software Reverse Engineering?	[10]
	b) Explain the need of Intrusion Detection System (IDS)? Differentiate between signature based and anomaly based IDS.	veen [10]
5.	a) What are the file system vulnerabilities for a Linux system?	[10]
	b) What is SSO? Explain the working of Kerberos Authentication Protocol ((KAP) [10]
6.	Write short notes on: (Any Four)	
	a) Honey Pots	[5]
.6	b) Secure email	[5]
	c) Federated Identity Management	[5]
	d) CIA Security goals	[5]
	e) Incomplete Mediation	[5]
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