## Sem-VI I.T (CB43) 20/5/16 System & Web Security Q.P. Code: 594900

Total Marks: 80

(3 Hours) N.B.: (1) Question No. 1 is compulsory. (2) Attempt any THREE Questions out of remaining FIVE questions. For an online shopping system identify vulnerability, threat and attack. What is IP spoofing? How does it lead to Denial of service attack? (b) What are the different modes of authenticating a user? What are the different phases of a virus? How does a virus propagate? (d) Differentiate between:-Access control list and capability list Firewall and IDS. Explain RSA algorithm for public key encryption. Given modulus N = 143 10 (b) and public key = 7, find the values of p, q, phi (n), and private key d. Can we choose value of e=5? Justify. What is session hijacking? How does it occur? Give two ways to prevent 10 a session hijack. How is single sign on achieved in Kerberos protocol? What is the concept of 10 (b) a ticket in this protocol? Compare the different types of firewalls that can be used to secure a network. List the different protocols of SSL and explain the working in detail. 10 (b) What are the different approaches to software reverse engineering? What are the file system vulnerabilities for a Linux system? (b) 20 Write short notes on (any four): Secure email (a) Multi level açcess control (b) Digital Right Management (c) Non-malicious programming errors Federated Identity Management