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BTECH (SEM III) THEORY EXAMINATION 2021-22 **COMPUTER SYSTEM SECURITY**

Total Marks: 50 Time: 3 Hours

Note: Attempt all Sections. If you require any missing data, then choose suitably.

Attempt all questions in brief. Questions CO Questions CO (a) Why is Session Hijacking successful? (b) What is the significance of Confinement Principle? (c) How access control in UNIX is different from Windows? (d) How many look-up zones are in DNS? (e) Define Firewall and Its Uses? SECTION B Attempt any three of the following: SECTION B Attempt any three of the following: Questions (a) What is Control hijacking with an example? Explain the term of Buffer overflow in Control hijacking. (b) Write short notes on System call Interposition. (c) What is Cross Site Scripting? How to Protect against XSS Attacks. (d) Explain the term Public key Cryptography in detail. (e) Explain in brief about RSA Public key cryptography. SECTION C Attempt any one part of the following: Ono Questions Questions Questions CO (a) How Security System Should Evolve to Handle Cyber Security Threats and Vulnerabilities? (b) What is a Digital Signature? How Digital Signature Works? 4 Attempt any one part of the following: (a) How to detect Rootkits? Explain how to prevent Rootkits 2 Attempt any one part of the following: (a) How Cross site request foregry attack works? Also mentioned example of CSRF Attack. (b) What's the difference between Browser Isolation and Remote Browser Isolation? Attempt any one part of the following: (a) Explain RSA algorithm. Perform Encryption and Decryption using RSA for p=11,q=13,c=7,m=9. (b) What is Symmetric and Asymmetric Key cryptography? Write their respective advantages and disadvantages? Attempt any one part of the following: S*1 = 5 (a) How do you define Risk, Vulnerability and threat in the context of Network Security? (b) What is a Network Intrusion Detection System? Explain its types.		SECTION A					
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