

University Of Mumbai

T.Y. B.Sc. Sem VI (Computer Science) Rev 21 Practical Examination – April 2025

Duration: 2 hrs

Marks: 50

Date: 15 April 2025

Time: 9:00 - 11:00

Course: USCSP6042 Ethical Hacking – Practical

Candidate's University Seat Number: _____

| | | |
|----|---|----|
| 1. | A. Use NMap to perform an ACK scan to determine if a port is filtered, unfiltered, or open. [20] B. Perform SYN, FIN, NULL, and XMAS scans to identify open ports and their Characteristics [20] | 40 |
| 2. | Viva | 05 |
| 3. | Journal | 05 |

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| 1. | A. Use NMap to perform an ACK scan to determine if a port is filtered, unfiltered, or open. [20] B. Crack the password using: [20] a. Dictionary Attack b. Cryptool | 40 |
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| 1. | A. Perform SYN, FIN, NULL, and XMAS scans to identify open ports and their Characteristics. [20] B. Use Wireshark to capture network traffic on a specific network interface. Analyze the captured packets to extract relevant information and identify potential security issues. [20] | 40 |
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| | | |
|----|--|----|
| 1. | A. Use Cryptool to perform Encryption and Decryption of Password. [20] B. Perform Network Analysis using following commands [20] a) ifconfig b) ping c) netstat d) traceroute | 40 |
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| 1. | <p>A. Execute the following tasks: [20]</p> <ul style="list-style-type: none">a) Perform network scan.b) Find active machines.c) Find number of hops from source to destination.d) Perform ping command <p>B. Find the number of hops from your PC to www.prestashop.com. [20]</p> | 40 |
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|----|---|----|
| 1. | A. Perform Reconnaissance to obtain following: [20] a) The domain name b) The URL c) Registrant name – Who registered the domain d) Email address e) IP address B. Use ARP poisoning to crack password of email account. [20] | 40 |
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|----|--|----|
| 1. | A. Install and configure the Tamper Data add-on in Firefox. Intercept and modify HTTP requests to impersonate a user's session. [20] B. Demonstrate the use of Wireshark in sniffing the data. [20] | 40 |
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| 1. | A. Create simple keylogger using python and record keys used by user. [20] B. Find the Reconnaissance on www.google.com as following: [20] a) Determine the network range b) Identify active machines c) Discover open ports and access points d) Uncover services on ports. e) Server name. | 40 |
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| 1. | <p>A. Crack the password using: [20]</p> <ul style="list-style-type: none">a) Dictionary Attackb) Cryptool <p>B. Perform Reconnaissance to obtain following: [20]</p> <ul style="list-style-type: none">a) The domain nameb) The URLc) Registrant name – Who registered the domaind) Email addresse) IP address | 40 |
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| 1. | A. Crack the password using: [20] a) Dictionary Attack b) Cryptool B. Perform SYN, FIN, NULL, and XMAS scans to identify open ports and their characteristics. [20] | 40 |
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|----|--|----|
| 1. | A. Use Wireshark to capture network traffic on a specific network interface. [20] B. Use cain and abel to crack windows password by using Dictionary attack. [20] | 40 |
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|----|---|----|
| 1. | A. Using ARP poisoning to crack password of email account. [20] B. Perform network scanning on www.sports.com to find number of active machines and no of packets send. [20] | 40 |
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| 1. | A. Using Nmap (ZenMap) perform the following scans on the system: [20] a. Intense scan b. Xmas Scan c. Null Scan B. Create simple keylogger using python and record keys used by user. [20] | 40 |
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| 1. | A. Use Ping and IP Scanner to scan the network. List your findings. [20] B. Perform keylogger attack on your system using python. [20] | 40 |
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| 1. | A. Perform Cross Site Scripting attack to change content of Session Cookies. [20] B. Perform SQL Injection and retrieve the user names and passwords from the application. [20] | 40 |
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| 1. | A. Perform Encryption and Decryption of password using RC4 Algorithm. [20] B. Demonstrate the use of wireshark in sniffing the data. [20] | 40 |
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| 1. | A. Find the number of hops taken by your system to send information from your computer to www.google.com [20] B. Create simple keylogger using python and record keys used by user. [20] | 40 |
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|----|---|----|
| 1. | A. Find the owner of the website Godaddy.com, it's geographic location and owner of the IP address block of Godaddy.com [20] B. Find the Reconnaissance on www.google.com as following: [20] a) Determine the network range b) Identify active machines c) Discover open ports and access points d) Uncover services on ports. e) Server name | 40 |
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