

# University Of Mumbai

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

**Duration:** 2 hrs

**Marks:** 50

**Date:** 15 April 2025

**Time:** 9:00 - 11:00

**Course:** USCSP6042 Ethical Hacking ó Practical

**Ecpf If c vgt Wp kgt ul{ 'Ugc v'P wo dgt <aaaaaaaaaaaaaaaa**

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.	<p>A. Use Cryptool to perform Encryption and Decryption of Password. [20]</p> <p>B. Perform Network Analysis using following commands [20]</p> <p>a)      ifconfig</p> <p>b)      ping</p> <p>c)      netstat</p> <p>d)      tracert</p>	40
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1.	<p>A. Execute the following tasks: [20]</p> <ul style="list-style-type: none"> <li>a) Perform network scan.</li> <li>b) Find active machines.</li> <li>c) Find number of hops from source to destination.</li> <li>d) Perform ping command</li> </ul> <p>B. Find the number of hops from your PC to www.prestashop.com. [20]</p>	40
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1.	<p>A. Perform Reconnaissance to obtain following: [20]</p> <ul style="list-style-type: none"><li>a) The domain name</li><li>b) The URL</li><li>c) Registrant name ó Who registered the domain</li><li>d) Email address</li><li>e) IP address</li></ul> <p>B. Use ARP poisoning to crack password of email account. [20]</p>	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.	<p>A. Create simple keylogger using python and record keys used by user. [20]</p> <p>B. Find the Reconnaissance on www.google.com as following: [20]</p> <ul style="list-style-type: none"><li>a) Determine the network range</li><li>b) Identify active machines</li><li>c) Discover open ports and access points</li><li>d) Uncover services on ports.</li><li>e) Server name.</li></ul>	40
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1.	<p>A. Crack the password using: [20]</p> <ul style="list-style-type: none"><li>a) Dictionary Attack</li><li>b) Cryptool</li></ul> <p>B. Perform Reconnaissance to obtain following: [20]</p> <ul style="list-style-type: none"><li>a) The domain name</li><li>b) The URL</li><li>c) Registrant name ó Who registered the domain</li><li>d) Email address</li><li>e) IP address</li></ul>	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. Crack the password using: [20] a. Dictionary Attack b. Cryptool  B. Use wireshark to capture and analyze network traffic [20]	40
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1.	<p>A. Find the owner of the website Godaddy.com, it's geographic location and owner of the IP address block of Godaddy.com [20]</p> <p>B. Find the Reconnaissance on www.google.com as following: [20]</p> <ul style="list-style-type: none"><li>a) Determine the network range</li><li>b) Identify active machines</li><li>c) Discover open ports and access points</li><li>d) Uncover services on ports.</li><li>e) Server name</li></ul>	40
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