Total No. of Questions: 6

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## Enrollment No.....



## Faculty of Science End Sem Examination Dec-2023

BC3ET01 Ethical Hacking

Programme: B.Sc. Branch/Specialisation: Computer

Science / All

Duration: 3 Hrs. Maximum Marks: 60

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d. Assume suitable data if necessary. Notations and symbols have their usual meaning.

• `	~ /	otations and symbols have	their usual meaning.	iai		
Q.1	i.	Which of the following is a tool for performing footprinting undetected?				
		(a) Whois search	(b) Traceroute			
		(c) Ping sweep	(d) Host scanning			
	ii.	Banner grabbing is an exa	ample of what?	1		
		(a) Footprinting				
		(b) Active operating system	em fingerprinting			
		(c) Passive operating syst	em fingerprinting			
		(d) Application analysis				
	iii.	For discovering the OS ru	unning on the target system, the scanning	1		
		has a specific term. What	is it?			
		(a) Footprinting	(b) 3D Printing			
		(c) Fingerprinting	(d) Screen-printing			
	iv.	In order to prevent a had	cker from using SMB session hijacking,	1		
	which TCP and UDP ports would you block at the firewall?					
		(a) 167 and 137	(b) 80 and 23			
		(c) 1277 and 1270	(d) 139 and 445			
	v.	is the wo	rld's most popular vulnerability scanner	1		
		used in companies for checking vulnerabilities in the network.				
		(a) Wireshark	(b) Nessus			
		(c) Snort	(d) WebInspect			

	V1.	What is a virtual private network (VPN)?	1			
		(a) A device used to encrypt network traffic				
		(b) A device used to monitor network traffic				
		(c) A device used to block network traffic				
		(d) A device used to analyze system logs				
	vii.	This is a type of cyber attack that has a program running on your	1			
		server to bypass the authorization.				
		(a) DoS (b) Phishing (c) Sniffing (d) Backdoor				
	viii.	What is enumeration?	1			
		(a) Identifying active systems on the network				
		(b) Cracking passwords				
		(c) Identifying users and machine names				
		(d) Identifying routers and firewalls				
	ix.	What is the purpose of a penetration test?				
	(a) To identify vulnerabilities in a system or network					
	(b) To exploit vulnerabilities in a system or network					
		(c) To fix vulnerabilities in a system or network				
		(d) To steal sensitive information from a system or network				
	х.	framework made cracking of vulnerabilities easy like	1			
		point and click.				
		(a) .Net (b) Ettercap				
		(c) Zeus (d) Metasploit				
Q.2	i.	Compare Remote Access vs Local access.	2			
	ii.	How to take full permissions control to edit protected Registry	3			
		Keys?				
	iii.	Enumerate the different methodology used for footprinting.	5			
		Explain the footprinting through search engine?				
OR	iv.	What is the importance of Network Enumeration with example?	5			
Q.3	i.	Explain in detail the pre attack phase of penetration testing.	2			
	ii.	Illustrate the open-source tools for scanning. Explain any one of	8			
		them in detail.				
OR	iii.	Discuss gaining access phase of the attack including how the attack occurs.	8			

Q.4 i.		Discuss about network sniffing in detail.	
	ii.	Explain with example:	7
		(a) Voice mail hacking (b) VPN hacking	
OR	iii.	Expressing valuable thought about the Private Branch Exchange	7
		hacking.	
Q.5	i.	Identifying the Tools that exploiting WEP Weakness.	4
	ii.	Examining the Wireless Foot printing, Wireless Scanning and	6
		discuss how enumeration play a role in wireless hacking.	
OR	iii.	What is Denial of Service Attacks? Discuss Motivation of DoS	6
		Attackers. Also explain the types of DoS attacks.	
Q.6		Write short note on any two:	
	i.	SQL injection attacks	5
	ii.	Client-side browser	5
	iii.	Metrpreter	5

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## **Scheme of Marking**

## Ethical Hacking-BC3ET01(T)

Q.1	i)	Which of the following is a tool for performing footprinting undetected?	1
		a) Whois search	
	ii)	Banner grabbing is an example of what?	1
		c) Passive operating system fingerprinting	
	iii)	For discovering the OS running on the target system, the scanning	1
		has a specific term. What is it?	
		c) Fingerprinting	
	iv)	In order to prevent a hacker from using SMB session hijacking,	1
		which TCP and UDP ports would you block at the firewall?	
		d) 139 and 445	
	v)	is the world's most popular vulnerability scanner	1
		used in companies for checking vulnerabilities in the network.	
		b) Nessus	
	vi)	What is a virtual private network (VPN)?	1
		a) A device used to encrypt network traffic	
	vii)	This is a type of cyber attack that has a program running on your	1
		server to bypass the authorization.	
		d) Backdoor	
	viii)	What is enumeration?	1
		c) Identifying users and machine names	
	ix)	What is the purpose of a penetration test?	1
		b) To exploit vulnerabilities in a system or network	
	x)	framework made cracking of vulnerabilities easy like	1
		point and click.	
		d) Metasploit	
		, 1	
Q.2	i.	Define Remote Access 1 mark	2
		vs Local access 1 mark	
	ii.	Simulating to take full permissions control to edit protected	3
		Registry Keys	
	iii.	Different methodology used for footprinting 2 marks	5

OR	iv.	Footprinting through search engine What is the Importance of Network Enumeration With example	3 marks 4 marks 1 mark	5
Q.3	i.	Explain in detail the pre attack phase of penetration	testing	2
OR	ii. iii.	Illustrate the Open source tools for scanning explains any one of them in detailed Gaining Access phase of the attack including how the attack occurs	2 marks 6 marks 2 marks 6 marks	8
		metading now the attack occurs	o marks	
Q.4	i.	Discuss about network sniffing in detail		3
	ii.	Develop a case study to product your system into Brute force attack	2 marks 5 marks	7
OR	iii.	Expressing valuable thought about the Private Br hacking Explanation	anch Exchange	7
Q.5	i.	Identifying the Tools	1 mark	4
	ii.	that exploiting WEP Weakness Examining the Wireless Foot printing	3 marks 2 marks	6
	11.	Wireless Scanning	2 marks	Ū
		Enumeration does play a role in wireless hacking	2 marks	
OR	iii.	Detecting Denial of Service Attacks	2 marks	6
		Motivation of Dos Attackers Types of DoS attacks	2 marks 2 marks	
Q.6		Attempt any two:		
	i.	SQL injection attacks 5 marks		5
	ii.	Client-side browser 5 marks		5
	iii.	Metrpreter 5 marks		5

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