			(2 ½ Hours)	T] (T	otal Marks: 75]				
N.B.	<ol> <li>All questions are compulsory.</li> <li>Figures to the right indicate marks.</li> <li>Illustrations, in-depth answers and diagrams will be appreciated.</li> </ol>								
	4) N	lixing of sub-questions is	not allowed.	· 87°					
			VA.	· (%)	\$ 50°				
Q. 1		empt All	8		7 (107 5)				
(a)	Select the correct alternative from the options given: (10M)								
(i)		jan Horse is an example		Males Comments					
	(a)	Antivirus	(b)	Malware					
	(c)	Attack	(d)	Virus					
(ii)	The act of gathering information about target system is called								
	(a)	Social Gathering	(b)	Reconnaissance					
	(c)	Stealing	(d)	Repudiation					
	29				25 V.				
(iii)	AR	P Poisoning is an exampl	e of what type	of attack?	, 6				
, ,	(a)	Man in the middle	(b)	DOS					
4	(c)	Brute-force attack	(d)	DDOS	and of				
		VA. 189, 12	28,		St. O.				
(iv)	A F	A Framework which is a collection of shell codes, exploits and payload is							
	call	ed?	181						
	(a)	Simple	(b)	.NET					
	(c)	Metasploit	(d)	Complex					
		E A &							
(v)		ich of the following is a s		Y A Control of the co	hackers?				
	(a)	Honeypot	(b)	Firewall					
	(c)	Bootstrap	(d)	IDS					
100			Ok.		1 1				
(vi)	is done to make users access a spoof website rather than the intended								
and the second second		tination.		LIDI Obfugastion					
	(a)	DOS	(b)	URL Obfuscation					
	(c)	DDOS	(d)	Eavesdroping					
(vii)	Which of the following is not a type of Ethical Hacker?								
	(a)	Grey	(b)	Black					
	(c)	Red	(d)	White					
	(C)	Tea S		vviiic					
(viii)	Online purchase recommends websites beginning with https Protocol. This is referred as								
	(a)	Security lab	(b)	firewall					
	_ , ,	Security lab Secure socket laver	(b) (d)	Encryption					

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(ix)	is an action that compromises security in a system							
	(a) Threat (b) Attack							
	(c) Exploit (d) Vulnerability							
(x)	The main purpose of penetration test is to?							
( )	(a) Identify Vulnerabilities (b) Steal sensitive data							
	(c) Fix vulnerabilities (d) Exploit vulnerabilities							
(b)	Fill in the blanks by selecting from the pool of options:	(5M)						
(-)	(NMAP, SYN ACK, Privilege escalation, Exploit, IP)							
(i)	A DNS Translates domain name to							
(-)								
(ii)	Thecommand attacks the Target machine							
(11)	Theemiliated attacks the range internite							
(iii)	SYN packet is always followed by							
(111)	511V packet is always followed by							
(iv)	Thetool helps to scan a Network							
(11)								
(v)	The process of getting elevated access to the resource is called							
264								
Q. 2	Attempt the following (Any THREE) (15M)							
(a)	Explain the terms authentication and authorization in Security							
(b)	Describe the Security, Functionality, and Ease of Use Triangle.							
(c)	What is a CSRF attack and how it is done?							
(d)	Explain the term Keystroke logging							
(e)	Write a short note on URL Obfuscation							
(f)	Give a complete description of Rootkits with example							
Q. 3	Attempt the following (Any THREE)	(15M)						
(a)	Bringout the differences between Manual and Automated							
	PenetrationTesting.							
(b)	Write a short note on Session Hijacking							
(c)	What is meant by packet sniffing.?Explain							
(d)	Explain Crawling/Spidering with example							
(e)	Describe the terms Internal and External Penetration testing							
(f)	Define Ethical Hacking and explain its need.?							
Q. 4	Attempt the following (Any THREE)	(15)						
(a)	Explain the term SYN Flooding.							
(b)	Write short note on VOIP Vulnerabilities.							
(c)	Explain SQL Injection attack							
(d)	What are the ways to achieve Mobile apps Security.?Explain							
(e)	Describe Honeypots and Evasion techniques							
(f)	Explain a Smurf Attack							
X	\$\tag{\text{\tint{\text{\tin}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tex{\tex							

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Q. 5	Attempt the following	(Anv FIVE
$\mathbf{O}$	Attempt the following	

(15

- (a) Define spyware and give example
- (b) Explain the term Cookie Theft
- (c) Define Black, Grey and white box penetration testing
- (d) Define Scanning and mention its three types
- (e) What is Buffer overflow
- (f) Describe the term Steganography
- (g) Define IP Spoofing
- (h) What is XSS?

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