



Brainware University
398, Ramkrishnapur Road, Barasa Kolkata, West Bengal-700125

## **BRAINWARE UNIVERSITY**

Term End Examination 2022
Programme – M.Sc.(ANCS)-2021
Course Name – Vulnerability Analysis and Penetration Testing
Course Code - MNCS302
( Semester III )

Full Marks: 60	Time: 2:30 Hour
[The figure in the margin indicates full marks. words a	Candidates are required to give their answers in their own s far as practicable.]
	Curana A
As a list of	Group-A
• • • • • • • • • • • • • • • • • • • •	choice type question,
Choose the correct alternative from the following	lowing:
(i) In which of the following, a person is congroup of several peoples?	stantly followed/chased by another person or
a) Phishing	b) Bulling
c) Stalking	d) Identity theft
(ii) Which of the following refers to the violation accessible?	tion of the principle if a computer is no more
a) Access control	b) Confidentiality
c) Availability	d) All of the above
(iii) In ethical hacking and cyber security, the	re are types of scanning:
a) 1	b) 2
c) 3	d) 4
(iv) Which Nmap output formats are support	ted by searchsploit?
a) JSON	b) XML
c) Text	d) Graphical
(v) What is the purpose of a pen test?	
a) To simulate methods that intruders tal gain escalated privileges	ke to b) To see if you can get confidential network data
<ul> <li>c) To test the security posture and policies procedures of an organization</li> </ul>	to get passwords
(vi) Which framework made cracking of vuln	erabilities easy like point and click.
a) .NET	b) Metasploit
c) Zeus	d) Ettercap
(vii) Which tool was made by OWASP Founda	ation

b) Nessus

d) Nmap

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a) Metasploit

c) ZAP

(viii) Maltego used for		
2) OCI	Information gathering Traffic analyzer tection system?	
a) Analysis Engine	All of the mentioned	
a) IRC c) ICMP	E-mail TFTP	
c) AttackSyllable d)	AttacksHybrid All of the above	
c) 80 d)	53 443	
a/ 100tp111tin.B	Application analysis Passive operating system fingerprinting of information security come	
-/	Confidentiality None of the above king?	
	Network scanning All of the above	
<b>Group-I</b> (Short Answer Type		=15
<ol> <li>What is CIA triad in Cyber Security? Explain.</li> <li>What is vulnerability management? explain the difference between a risk and a vulnerability?</li> <li>What is nmap? Report about the common ports to focus on during penetration testing?</li> <li>What is an SSL Certificate? Compare between Authentication vs Authorization?</li> </ol>		
OR  Analyze Content Security Policy (CSP)? How to use Corclickjacking?	ntent Security Policy (CSP) against (3	<b>;</b> )
6. What is patch management? Express about SSL session or SSL connections?  OR		3)
What Is a Penetration Testing Report? Invent the diffree automated penetration testing.	ence between Manual Penetration and (3	3)
Group- (Long Answer Type		6=30
7. Explain honeypots? What is a firewall and how does	it work? What is the difference between (	(5)
<ul> <li>an IDS and an IPS?</li> <li>what is API? Describe API Lifecycle Management?</li> <li>Explain bug bounty? How to mitigate the risk of Sens</li> <li>What is ClickJacking? Illustrate how to prevent a click</li> <li>Analyze PCI Compliance? What is HIPAA Compliance?</li> <li>What are the HIPAA Rules?</li> </ul>	itive Data Exposure?	(5) (5) (5) (5)

	OR  Explain Vulnerability Testing ? what are the types of a vulnerability scanner ? describe the	(5)
12.	What is buffer overflow? How can DNS and ARP be exploited by attackers? What is privilege	(5)
	escalation? Provide a few examples  OR  What are LFI and RFI ? What is IDOR, what are its consequences and how can you prevent it?	(5)
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