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Brainware University
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BRAINWARE UNIVERSITY

Term End Examination 2024-2025 Programme – M.Sc.(ANCS)-2021/M.Sc.(ANCS)-2022/M.Sc.(ANCS)-2023 Course Name – Malware Analysis and Reverse Engineering Course Code - MNCS303 (Semester III)

Full Marks: 60 Time: 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

1.	Choose the correct alternative from the followin	g :	
(i)	Name a disassembler		·
	a) PE Explorer	b)	x64dbg
	c) Wireshark	d)	IDA Pro
(ii)	Name a Common Indicator of Compromise		·
	a) Cross-site-scripting	b)	DNS Request Anomalies
	c) SQL Injection	d)	IP Spoofing
(iii)	Name a Scanner		
	a) Joebox	b)	Jotti
	c) Wireshark	d)	YARA
(iv)	Tell PEiD used for		
	a) for detecting spear phishing	b)	for identifying hash files
	c) for identifying packers	d)	for detecting Ip spoofing
(v)	Choose Memory analysis performs on		·
	a) RAM	b)	ROM
	c) a and b	d)	None of these
(vi)	Solve that RegRipper creates		files when it runs.
	a) One	b)	Two
	c) Three		None of these
(vii) MAC ACL applies only to		packets.
•	a) Layer 1	b)	Layer 2
	c) Laver 3		Layer 4
(vii	i) Select the online service known for scanning fi engines	les a	and URLs using multiple antivirus
	a) VirusTotal	b)	Jotti
	c) NoVirus Thanks	d)	Threat Expert

ix)	Identify the typical location of Windows Regis	stry hive files	Lipuning Prince	13/19 13581 13/19 13/19/19/19/19
	a) C:\Program Files c) C:\Windows\System32\config Identify the primary function of RegRipper in I	b) C:\Users d) C:\Temp Registry analysis	Librurive Brainware Unive 398, Ramkrishnapur Roa 398, Ramkrishnapur Beng Kolkata, West Beng Kolkata	7-100.2
	a) To destroy Registry hives c) To automate data extraction and analysis from the Windows Registry Select that what is the purpose of kernel debu	b) To change Regi d) To install softw ugging with IDA Pro	stry keys Pare	
(xii)	 a) Debugging web applications c) Debugging kernel-mode drivers and components What is the primary focus of YARA rules in con 	b) Debugging mo d) Debugging Jav de analysis	bile apps aScript code	
	a) To beautify code	b) To identify pat code	terns or characterist	ics in
/viii	c) To compile code into an executable i) What is the primary focus of DLL injection	d) To debug code		
	 a) Debugging system issues c) Extracting code from an executable d) Estimate that what type of analysis can help in or suspicious network connections in memor 	b) Extending the d) Analyzing cras identify injected code	e, hidden processes,	ocess
(xı	a) Network analysisc) File system analysisr) Select that code injection involves	b) Process analys d) Registry analy		
	a) Extracting code from an executable file c) Inserting and executing code within a running process	b) Modifying the	Windows Registry	
	Gr	oup-B		
	(Short Answer	r Type Questions)		3 x 5=15
2.	Describe memory analysis tools used in malwar	re analysis.		(3)
3.	Describe the purpose of Volatility in malware a	nalysis.		(3)
4.	Explain the concept of dynamic analysis in the	context of REMnux.		(3)
5.	Explain YARA.			(3)
6.	Summarize Malfind.			(3)
	Summarize Recursive DNS query.	OR		(3)
		roup-C rr Type Questions)		5 x 6=30

7. 8.	Define Malware Analysis. Describe Static Analysis.	Library Brainware University Brainware Uni	(5) (5)					
9.	Summarize that how Deep Freeze we	orks.	(5)					
10.	Explain PEiD.		(5)					
11.	Express the types of Malware.		(5)					
12.	Explain Sandbox.		(5)					
	Explain INetSim.	OR	(5)					
