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## **B.Tech. DEGREE EXAMINATION, MAY 2024**

Sixth Semester

## 18CSE472T - MALWARE ANALYSIS

(For the candidates admitted during the academic year 2018-2019 to 2021-2022)

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	N	Λ	T	٠.

- (i) Part - A should be answered in OMR sheet within first 40 minutes and OMR sheet should be handed over to hall invigilator at the end of 40<sup>th</sup> minute.

  Part - B & Part - C should be answered in answer booklet.
- (ii)

: 3 1	hours			Max. I	Marl	cs: 1	.00
	PART – A (20			Marks	BL	со	PO
	Answer AL	-					
1.	is a type of payload that	_		1	2	1	_ 1
	(A) Worm	` ,	Virus				
	(C) Trojan	(D)	Fake defender				
2.	What is the output for following	command	l? File sample exe	1	1	1	1
	(A) Show the nature of file	(B)	Show the file size				
	(C) Shows the file stamp	(D)	Shows the file security				
3.	The program that takes the exe obfuscate content is	cutable a	s input and uses compression to	1	2	1	1
	(A) Cryptor's	(B)	Encoders			3	
	(C) Packers	(D)	Floss				
•	uses a debugger to exami	ine the int	ernal state of a running malicious	1	2	1	3
	(A) Basic static analysis	(B)	Basic dynamic analysis				
	(C). Advanced static analysis	(D)	Advanced dynamic analysis				
	is an open source, my system resources	ultipurpos	se tool that helps in monitoring	1	1	2	1
	(A) Process hacker	(B)	Regshot				
	(C) Regedit		CFF explorer				
5.	clears all the events in pr	ocess mo	nitor tool.	1	1	2	1
	(A) $Ctrl + X$	(B)	Ctrl + C				
	(C) Ctrl + E	(D)	Ctrl + W				
7	environment without fear of harm	ning real	· ·	, 1	1	2	1
	(A) Process monitor	` '	Sand box				
	(C) Process explorer	(D)	Regshot				
8.	displays configurable individual events	columns	containing information about	, 1	2	2	1
	(A) Regshot	(B)	Procmon				
	(C) Fakenet	(D)	IDA				

9.	A	is a program that transla	ated macl	nine code back to assembly code.	1	2	4	1
		Assembler						
		Disassembler	(D)	Compiler				
	( /		e a Street	A TOTAL CONTRACTOR OF THE PARTY				
10.	IDA	stands for			1	2	3	4
	(A)	Interactive disassembler	(B)	Interface disassembler				
	(C)	Inductive disassembler	(D)	Imperative disassembler				
	(0)	illidadi ve disassellister	(~)					
11	The	microcode level is also know	n as		1	2	3	4
11.		Firmware	(7)	Software				
	` '	Wrapper	· /	Assembler				
	(0)	Winpper	(-)					
12.	The	way of hiding implementation	n details	in a code is called as	1	2	3	1
		Encapsulation	(B)	Polymorphism				
	` /	Abstraction	(D)	Typecast				
	(0)							
13.		is used to examine an inte	ermediate	object file	1	1	3	1
1.0.		NM	(B)	NMAP				
	, ,	NETCAT		NETVIEW				
	(0)	NETCH1	(2)					
14		is canable of displaying	a wide	range of information related to	1	2	3	1
17.		dows PE files	, a ,,,,,,					
		Dunkbin	(B)	Dumpbin				
	. ,	Deskbin	` '	Cyclebin				
	(C)	Deskom	(D)	Cyclosia				
15	Proc	orammers typically oroun exe	cutable s	tatements into units called	1	1	2	1
15.		Segments	(B)	Functions				
		Loops		Header				
	(0)	Loops	(2)					
16.		allows the user to grou	n comm	ents for display at the top of a	1	1	3	1
10.		ctions disassembly listing	Р	one for any man of				
		Feedback comments	(B)	Regular comments				
	(C)	Function comments		Segment comments				
	(0)	Tunction comments	(15)	Segment comments				
17.		researches properties of	software	e that can be investigated by the	1	1	6	1
17:		pection of application and its s						
	-	Static analysis		Behavioral analysis				
	(C)	Dynamic analysis	` '	Functional analysis				
	(C)	Dynamic analysis	(12)	1 wild total distribution				¥
12	DV	M in android stands for			1	2	6	1
10.		Dilvik Virtual Machine	—· (B)	Delvik Virtual Machine				
	` /	Dalvik Virtual Machine		Dalvuk Virtual Machine				
	(C)	Darvik virtual Macinic	(D)	Daivak virtaar iviaamie				
19.		attempted to send premi	ium rate	SMS messages to predetermined	1	1	6	1
19.		bers.	rain rate	bitio modages to productime				
		Base bridge	(B)	Mass bridge				
	• .		(D)	-				
	(C)	2,50110	(1)	and although				
20.		was viewed as spyware	and the o	official name would show as SMS	1	2	6	1
	spy							
	(A)		(B)	Gambler SMS				
	(C)		(D)					
Page 2 of 3	, ,	-FF	<i>(</i> - <i>)</i>	•	22MA6	-18CS	E4721	7

	PART – B ( $5 \times 4 = 20$ Marks) Answer ANY FIVE Questions	Marks	BL	со	РО
21.	Write a note on file dependencies and imports.	4	3	1	1
22.	What are the various steps in dynamic analysis?	4	3	2	1
23.	Distinguish between high level and interpreted language with examples.	4	3	3	2
24.	How to import new structures in IDApro tool?	4	3	3	3
25.	Write short notes on obj dump with an example.	4	3	2	2
26.	Discuss ADB push and pull command with an example.	4	3	6	3
27.	How to find certificate information in APK file?	4	3	6	3
	PART – C (5 × 12 = 60 Marks) Answer ALL Questions	Marks	BL	со	PO
28. a.i.	How to extract strings using tools?	6	3	1	1
ii.	How to decode encrypted strings using FLOSS?	6	3	1	1
b.	(OR) Obfuscation is used by malware authors to protect the inner workings of	12	4	1	3
	malware from security researchers, malware analyst and reverse engineers. Summarize the various ways of determining file obfuscation.				
29. a.	Explain the structure of virtual machine and sandboxing approach in dynamic analysis.	12	3	2	1
	(OR)				
b.	Discuss in detail about faking a network and registry snapshot with necessary tool.	12	4	4	1 -
30. a.	Construct a C++ application using arithmetic operators. Write an equivalent assembly code for the same.	12	4	4	1
	(OR)				
b.	How reverse engineering is done using disassembler? Discuss in detail.	12	4	4	3
31. a.	Explain in detail about Names and Naming in IDApro tool.	12	4	5	1
b.	(OR) Compare and contrast exports and imports window using example.	12	3	3	1
	How dynamic analysis is done for android malware? Given an example.	12	4	6	3
	(OR) Write the procedure for performing static analysis in android malware. Justify with an example.	12	4	6	3