28. a.	Describe the recursive descent disassembly algorithms in detail.	10	0.1	3	1
b.	(OR) Categorize the various disassembly tools.	10	2	3	1
29. a.	Categorize various infamous patch program menus.	10	2	4	1
Ъ.	(OR) Develop a script to enhance additional features in <i>IDA</i> using variables, expressions, statements, functions, objects of <i>IDC</i> scripting language.	10	3	5	4
30. a.	Analyse the android Trojan "Usbcleaver".	10	2	6	1
b.	(OR) Categorize the various open source tools available in Native analysis and reverse engineering.	10	2	6	1

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## B.Tech. DEGREE EXAMINATION, MAY 2022

Sixth & Seventh Semester

		Sixin a	x seve	enth Semester				
				WARE ANALYSIS academic year 2018-2019 to 2019-202	0)			
Note:								
(i) (ii)	OV	<ul> <li>rt - A should be answered in OMR</li> <li>er to hall invigilator at the end of 40<sup>th</sup></li> <li>rt - B should be answered in answer</li> </ul>	minut		et shou	ld be	e har	ıde
Time: 2	2½ Ho	ours			Max.	. Ma	ırks:	75
		$PART - A (25 \times 1)$	= 25 ]	Marks)	Marks	BL	CO	P
		Answer ALL (						
1	. Ide	ntify the signature used to detect		cious code by monitoring network	1	1	I	1
	(A)	Network signature	(B)	Host based signature				
	(C)	Remote signature	(D)	Malicious signature				
2	. Rel	ate the analysis which involves e	xamir	ning the malware without using it	1	1	1	1
	(A)			Dynamic analysis				
	(C)	Behavioural analysis	(D)					
3	. Wh	at examines the executable file w	vithou	t viewing the actual instructions?	1	1	1	1
		Basic static analysis		Basic dynamic analysis				
	(C)	Behavioural analysis	(D)					
4	by I		sassen	neering in the malware's internals abler and looking at the program does is	1	1	1	1
		Basic static analysis	_	Basic dynamic analysis				
	(C)	Advanced static analysis	(D)					
5.		ntify the malware that installs cker access is	itself	onto a computer to allow the	1	1	1	1
	(A)	Backdoor malware	(B)	Botnet malware				
	(C)	Downloader	(D)	Root kit				
6.	env	ironment without the fear of harm	ning r		1	2	2	2
	(A)		(B)	Mind box				
	(C)	Flip box	(D)	Mind map				
7.	Iden	ntify the advanced monitoring to nitor certain registry, file system,	ol for	windows that provides a way to	1	1	2	2
	(A)			Procmon				
	(C)	Viewpro	, ,	Viewmon				
	. ,	Torr	(-)	(6) TRI				

8	Which is an extremely pow when you are performing dyn (A) Process monitor	werful task manager that should be running, namic analysis  (B) View processor	1 1 2 1		describes the overall layout of a binary, sections that make up the binary and the section	1	1	4	1
	(C) Process explorer	(D) View explorer		(A) .map (C) .inc	(B) .asm (M) = M = M = M = M = M = M = M = M = M =				
9		es the quickest way to see DNS requests made	, 1 1 2 1		a number of subdirectories, which in turn	1	1	5	1
	by malware	(B) Netcat		contain the link libraries required					
	(A) ApateDNS	(D) Viewmon		(A) ldr directory	(B) module directory				
	(C) Procmon	(D) Viewmon		(C) etc directory	(D) lib directory				
10	Which is an open source sn	iffer, a packet capture tool that intercepts and	1 1 2 1	(0) 000 000000		A			
10	logs network traffic?	inter, a packet capture toor that intercepts and		21. Relate the malware that attempt	ted to send premium rate SMS messages	1	3	6	1
	(A) Net cat	(B) Wireshark		without the users consent to a har					
	(C) Apate DNS	(D) Procomon		(A) Fake player	(B) DroidSMS				
	(3)			(C) FakeInst	(D) TapSnake				
11	1. Which of the below display	information from object files?	1 1 3 1						
	(A) objdump	(B) otool		22. Recognize the image file the em	ulator uses to write runtime user-data for a	1	I	6	1
	(C) nm	(D) PEiD		unique user					
				(A) sdcard.img	(B) userdata-qemu.img				
12	2. Which tool is used to examin	ne an intermediate object file?	1 1 3 1	(C) temp.img	(D) avd.img				
	(A) objdump	(B) otool							
	(C) nm	(D) PEiD		23. Identify the tool which uses a ge-				6	- 1
				(A) FakeDNS	(B) FakeHTTP				
13		ed to identify the compiler used to build a		(C) AVS logical	(D) Proxy server				
		e executable binary and to identify any tools	S	Ė				6	
	used to obfuscate a windows	s portable executable binary	1/	· · · · · · · · · · · · · · · · · · ·	to capture all the net flow traffic passing	1	1	O	1
	(A) objdump	(B) otool		through the machine					
	(C) nm	(D) PEiD		(A) HTTP	(B) Heap				
			1 1 2 1	(C) Wire shark	(D) Promax				
= 14		xamples of recursive descent disassembler	1 1 3 1	25 B 1 1 1 1 1 1 61	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1	6	= 1
		(B) SAND BOX		25. Recognize the tool that profiles	s the application showing the objects and				·
	(C) PEiD	(D) otool		methods called during application					
		-1.2	2 1 1 3 1	(A) Update heap	(B) Dump HPROF				
1	<ol><li>The linear sweep disassemble locating instructions to disaster.</li></ol>		0 1 1 3 1	(C) Start method profiling	(D) Update threads				
	(A) Straight forward	(B) Backward		2122	40 5075 1)	Marks	RI	СО	Þ
	(C) Bottom-up	(D) Top-down			10 = 50  Marks)	IVIAI KS	, ,,		
		1	0 1 1 4 1	Answer Al	LL Questions				
1		ch causes IDA to delete any existing databas	e	26 - Describe how the heating helm	in Malyrona analysis	5	1	1	1
		cified on the command line is		26. a.i. Describe how the hashing helps	in waiware analysis.				
	(A) "A"	(B) "-C"		:: I sat the times of Meliviane		5	1	1	1
	(C) "S"	(D) "–B"		ii. List the types of Malware.					
1	7 Poloto the configuration	file which allows IDA to create bother	1 1 4 1	· ·	OR)	10	3	1	
1	specification is	file which allows IDA to create hotke	у	b. Relate how dependency walker	explores the dynamically linked functions.	10			
	(A) ida.cfg	(B) idagui.cfg		27. a. Relate how dynamic analysis of	Malware can be performed using Sandbox	ζ 10	3	2	- 2
	(C) idatui.cfg	(D) idamain.cfg		technology.					
1	8. The set of techniques emp	loyed by IDA to identify sequences of code a	as 1 1 4 1						
1	library code is said to be	1,000		·	OR)	1.0	2	0	
	(A) "IDC"	(B) "FLIRT"		b. Sketch the architecture of X86 a	nd explain in detail.	10	2	2	
	(C) "ADA"	(D) "SHARK"							
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