32. a. How to perform logging based vulnerability in android platform? Justify 12 4 6 1 with a suitable example. (OR) b. Write in detail about analyzing android malware. Justify with necessary 12 3 6 1 examples.

Reg. No.									
	_	_							

## **B.Tech. DEGREE EXAMINATION, JUNE 2023**

				Sixth S	emester				
			18CSE	E472T – MAL	WARE ANALYSIS				
			(For the candidates admi	itted during the	academic year 2018-2019 to 2021-20	122)			
Note:			·	O					
(i)			t - A should be answered in to hall invigilator at the end		vithin first 40 minutes and OMR sheet.	et shou	ld be	han	ıded
(ii)			t - B & Part - C should be						
Time	: 3	hours	S			Max. I	Marl	cs: 1	00
			PART – A	$(20\times1=20~\text{l}$	Marks)	Marks	BL	со	PO
				r ALL Question					
	1. The malicious programs which include key loggers, spyware, sniffers a form grabbers called as						1	1	1
		(A)	Information stealer	(B)	Ransom ware				
		(C)	Adware	(D)	Botnet				
	2.		ware designed to down	load or install	additional malware components	S 1	1	1	1
		(A)	Downloader	(B)	Spyware				
*);		(C)	Adware	(D)	Key logger				
	3.		covers the tools and malware binary using this	_	extract useful information from	1	2	1	2
		(A)	Static analysis	(B)	Dynamic analysis				
		(C)	Hybrid analysis	(D)	Memory analysis				
	4.	The	windows executable file	es are also call	ed as	l	1	1	1
		(A)	PE files	(B)	Pdf files				
		(~)	- 24		~ ~ ~ ~ ~ ~				

	(4 )	Static ariary 515		Dynamic analysis					
	(C)	Hybrid analysis	(D)	Memory analysis					
4.	The	The windows executable files are also called as							
	(A)	PE files	(B)	Pdf files					
	(C)	Doc files	(D)	Cpp files					
5.	<u>(A)</u>	tool that allows an examiner the Hex editor		pects each byte of the file.  Text editor	1	1	2		
	(C)	C editor	` '	Java editor		8			
6.	dete	can be used to determine wheted by searching online or datab		the sample has been previously f AV scanner.	1	2	1		
	(A)	File hash	(B)	File name					
	(C)	File size	(D)	File time stamp					

(B) Strings - b log.exe

(D) Strings - e log.exe

applies filter on the malware executable name and clear all events

(D) Wireshark

7. To extract strings from a suspect binary the following command is used

(A) Strings - a log.exe (C) Strings - c log.exe

just before running it.

1 2 1 1

9.	(A) Ncat.exe (C) Nc.cet	n windows.  (B) Nc.exe  (D) netcat.exe	1	1	1	1		20	Which command is used to transfer files from android device to sdcard?  (A) sudo push (B) sudo pull (C) adb push (D) adb pull	1	1	6	2	
10.	is included in Kali Linux to (A) Glomsim (C) Mobile sim	simulate the internet.  (B) Inetsim  (D) Internet sim	1	1	2	1		5	PART – B (5 × 4 = 20 Marks) Answer ANY FIVE Questions	Marks	BL	CO	) PO	
11.		registry keys when they are changed or	1	1	2	2		21.	How to classify malware using section hash? Justify with example.	4	3	1	2	
	modifier? (A) Regshot (C) Process explorer	<ul><li>(B) Procomn</li><li>(D) Fake net</li></ul>						22.	How to simulate internet services for dynamic analysis? Justify with an example.	4	3	1	2	
12.	Expand ASLR.		1	1	3	1		23.	With the help of a diagram, explain the various levels of abstraction.	4	3	1	4	
	(A) Address Space Layout Resolution	t (B) Address Space Layout Recommendation						24.	Write short notes on opeodes and endianes with examples.	4	3	2	2	
	(C) Address Space Layout Randomization	t (D) Address Space Layout Resize						25.	How push and pop operations are done in a stack? Justify with an example.	4	4	3	2	
13.	In coloring the services are represent	ted using	1	.1	3	1		26.	How to configure emulated devise within AUD? Justify with an example.	4	4	5	2	
	(A) Pink (C) Green	(B) Blue (D) Red						27.	Write short notes on devices view. Justify with an example.	4	3	6	1	
14.	Expand FLIRT.  (A) Fast Library Identification and Recognition Technology	l (B) Fast Library Identity Recognition Technology	1	1	3	1			PART – C ( $5 \times 12 = 60$ Marks) Answer ALL Questions	Marks	BL	со	PO	
	(C) Fast Library Information Recognition Technology							28. a.i.	Discuss in detail the methods used as a finger print for malware analysis.	6	3	1	1	
15.	List the two modes in IDA protocol.		1	1	4	2		ii.	In malware analysis, what are all the methods for identifying file types?	6	3	1	2	
	<ul><li>(A) Graph and code mode</li><li>(C) Graph and display mode</li></ul>	<ul><li>(B) Graph and text mode</li><li>(D) Graph and tree mode</li></ul>						b.	(OR) Explain in detail the important PE sections giving suitable examples.	12	3	1	4	
16.	Names window contains  (A) Functions, strings	(B) Name code, data code	1	1	5	1		29. a.	Discuss in detail the various logging system activities using Noriben.	12	4	2	2	
17.	<ul><li>(C) Functions, name code, named data, strings</li><li>Parameters pushed onto stack inside</li></ul>		1	1	5	2		b.	(OR) Explain in detail the simulating services with Inetsim. Justify by giving an examples.	12	4	2	2	
	<ul><li>(A) Function call</li><li>(C) Data call</li></ul>	(B) Value call (D) Window call						30. a.	Write a C++ application to demonstrate conditional statement. Convert the code to assembly language and explain the same with global and local variables.	12	4	3	2	
18.	Going to shell mode of android device	ce using	1	1	6	1	•		variables.					
į	(A) sudo adb (C) shell adb	<ul><li>(B) root adb</li><li>(D) adb shell</li></ul>						b.	(OR) Explain in detail Rep instructions for manipulating data buffers.	12	3	4	ı	
10	The command used to show current i	Tunning processes is	1	1	6	1			,	4 - HB444				
1).	(A) ps	(B) Is	-	•	3	•		31. a.	Write in detail about named constants in IDA pro.	12	3	5	1	
	(C) pc	(D) lc						b.	(OR) How to modify execution with a debugger? Justify with an example.	12	4	5	2	