Paper / Subject Code: 90924 / Information Tech.: Malware Analysis (R-2020)

(Time: $2\frac{1}{2}$ hours)

	[Total Marks: 60]	
N. E	3.: (1) All questions are compulsory.	, X
	(2) Make suitable assumptions are	1
	(2) Make <u>suitable assumptions</u> wherever necessary and <u>state the assumptions</u> made.	
	to the same question milst be written together	
	(4) Numbers to the <u>right</u> indicate <u>marks</u> .	
	(5) Draw <u>neat labeled diagrams</u> wherever <u>necessary</u> .	
	(6) Use of Non-programmable calculator is allowed.	
1.	Attempt any two of the following:	
a.	Explain types of malware.	12
b.	What are packed and abformed to a Royal Company	. 1. 2.
	What are packed and obfuscated program? Explain packing of files and how to detect it.	
c.		
d.	How to use VMware machine for malware analysis?	
	Explain the use of malware Sandboxes. Also state its drawback.	
2.	Attempt any two of the C. H.	10.5
a.	Attempt any two of the following:	12
b.	What are the features of IDA Pro to enhance disassembly?	
c.	Explain function call convention.	
d.	mat are BEEs. How marware authors use dils?	
- S-	Write a short note on Using a debugger.	
3.	Attempt any two of the following:	
a.	What is tracing? Explain features of tracing supported by OllyDbg.	12
b.	Explain important commands of WinDbg.	
C	What is a backdoor? What are the functions performed by backdoor?	
d.	Write a short note on Hook Injection.	
	The a chort note on floor injection.	
4.	Attempt any two of the following:	
a.	Explain different ways to identify the way of standard	12
	Explain different ways to identify the use of standard cryptographic functions and content.	
b.	How to safely investigate an attacker online?	
c.	Explain Anti-disassembly.	
d.	What are the anti-debugging techniques of malayers to	
u.	What are the anti-debugging techniques of malware to detect debugger behavior?	
5.	Attempt any two of the following:	
	Explain Red will est; VM and No. 111 to 1	12
a. b.	Explain Red pill anti-VM and No pill techniques.	
o.	What are the tips and tricks for common packers?	
c. d.	Write a short note on Virtual vs. Non-Virtual function.	
u.	Give the example of why malware might need to be compiled for x64 architecture.	

Also state the differences between Windows 64-bit and 32-bit architecture.