GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER–V (NEW) EXAMINATION – WINTER 2022

Subject Code:3150714   **Date:04-01-2023**
Subject Name:Cyber Security
Time:10:30 AM TO 01:00 PM   **Total Marks:70**

Instructions:
1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

			Marks
Q.1	**(a)**	Describe Reconnaissance and Probe	**03**
	(b)	Explain Phishing and 3 ways it is done.	**04**
	(c)	Explain Metasploit and Nmap	**07**
Q.2	**(a)**	Describe NAT with example	**03**
	(b)	Differentiate between Stateful and Stateless firewalls.	**04**
	(c)	Explain Injection tools like Tcpdump, Windump and Wireshark	**07**
		OR	
	(c)	Explain Ettercap and Hping Kismet	**07**
Q.3	**(a)**	Explain Zed Attack Proxy.	**03**
	(b)	Differentiate between John Ripper and HTC-Hydra.	**04**
	(c)	Explain the web vulnerability tools like Nikto and W3af.	**07**
		OR	
Q.3	**(a)**	Explain Curl, OpenSSL and Stunnel.	**03**
	(b)	Differentiate between packet filter and firewall.	**04**
	(c)	Explain the network monitoring tool Snort.	**07**
Q.4	**(a)**	Describe attack vector, cyberspace and IT act 2000.	**03**
	(b)	Explain hacking and its types.	**04**
	(c)	Explain Incident response and digital forensics.	**07**
		OR	
Q.4	**(a)**	List three contemporary crimes?	**03**
	(b)	Explain the types of cybercrimes.	**04**
	(c)	Explain DVWA and Web goat	**07**
Q.5	**(a)**	Features of Trojan virus.	**03**
	(b)	List four functions a backdoor can do to help the attacker.	**04**
	(c)	Explain how SQL Injection attacks can be prevented.	**07**
		OR	
Q.5	**(a)**	What is Stegnography and list two examples.	**03**
	(b)	Differentiate between	**04**
		1. DOS and DDOS attack	
		2. Keyloggers and Spyware	
	(c)	Explain the tools for attacking wireless Networks.	**07**

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