GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER–V (NEW) EXAMINATION – SUMMER 2021

Subject Code:3150714   **Date:07/09/2021**

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)**	What is Vulnerability? Give small example	03
	(b)	Write short note on Nmap and Netcat	04
	(c)	What is OpenVas? Write advantage and disadvantage of OpenVas.	07
Q.2	**(a)**	Write benefits of Metasploit	03
	(b)	Explain Following terms: 1. Datapipe 2. Fpipe 3.WinRelay 4.Traffic Probe	04
	(c)	Describe Network Sniffers with suitable example.	07
		OR	
	(c)	Explain different functionally provide by Wireshark.	07
Q.3	**(a)**	What is Packet Filter Vs Firewall?	03
	(b)	Difference between Stateless Vs Stateful Firewalls.	04
	(c)	Explain in details: Network Address Translation (NAT) with suitable diagram.	07
		OR	
Q.3	**(a)**	What is Port Forwarding?	03
	(b)	Write short note on Tcpdump and Windump.	04
	(c)	Describe all HTTP utilities in details.	07
Q.4	**(a)**	Brief out the Sqlmap.	03
	(b)	Give brief introduction of Brute-Force Attack.	04
	(c)	List down the Application Inspection tools. Explain any two in details.	07
		OR	
Q.4	**(a)**	What is Cyber Crime? Explain with example.	03
	(b)	Explain types of Cyber Crimes.	04
	(c)	Explain in details: Hacking, Attack vectors, Cyberspace and Criminal Behavior.	07
Q.5	**(a)**	What is Digital Forensics?	03
	(b)	List down and explain Contemporary Crimes.	04
	(c)	Describe DOS and DDOS attack with suitable example.	07
		OR	
Q.5	**(a)**	What is Virus and Warms?	03
	(b)	Explain in details: Buffer Overflow.	04
	(c)	Which types of attack possible on wireless Networks? Explain in details.	07