GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER–V (NEW) EXAMINATION – SUMMER 2024

Subject Code:3150714   **Date:16-05-2024**
Subject Name:Cyber Security
Time:02:30 PM TO 05:00 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)**	Write sort note on Indian IT ACT 2000.	**03**
	(b)	What is the difference between Threat, Vulnerability, and Risk and Computer Virus?	**04**
	(c)	What is the need of Demilitarized Zone (DMZ)? Explain with example.	**07**
Q.2	**(a)**	Define the term in briefly: (i) Open Port Identification (ii) Banner Check	**03**
	(b)	What is Probe. Explain its different types.	**04**
	(c)	List and explain types of Network Sniffer. List Network Sniffers and Injection tools.	**07**
		OR	
	(c)	Explain Ettercap and Hping Kismet.	**07**
Q.3	**(a)**	What do you mean by Cyber Crime? How do you relate it with Hacking?	**03**
	(b)	Explain Traditional Problems Associated with Computer Crime.	**04**
	(c)	What is firewall? Explain three main type of firewall.	**07**
		OR	
Q.3	**(a)**	How ZAP proxy works? Explain with suitable example.	**03**
	(b)	What do you mean of contaminants and destruction of data? Explain it.	**04**
	(c)	Explain Digital Forensics life cycle in detail.	**07**
Q.4	**(a)**	Explain Curl, OpenSSL and Stunnel.	**03**
	(b)	Explain Wireshark and how do we use Wireshark to find a password in network?	**04**
	(c)	What is Netcat? Explain steps for File Transfer process by using Netcat in detail.	**07**
		OR	
Q.4	**(a)**	What is Metasploit? Explain payload types in short.	**03**
	(b)	How Buffer overflow attack works?	**04**
	(c)	What is Nmap? Explain different functionality with its command in detail.	**07**
Q.5	**(a)**	What is Brute-Force Attack? How it can be prevented?	**03**
	(b)	Justify the attack vector. List out different types of attack vector.	**04**
	(c)	Explain how SQL Injection attacks can be prevented.	**07**
		OR	
Q.5	**(a)**	What is Keyloggers? Explain different types of Keyloggers.	**03**
	(b)	Explain L0htcrack, HTC-Hydra, Pwdump.	**04**
	(c)	Explain DVWA and Web goat.	**07**

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