GUJARAT TECHNOLOGICAL UNIVERSITY
BE – SEMESTER- V EXAMINATION-SUMMER 2023

Subject Code: 3150714   **Date: 23/06/2023**
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)	Define System and Web Vulnerability.	03
	(b)	Explain Metasploit and OpenVAS.	04
	(c)	Describe Nmap. Explain different functionality with its command in detail.	07
Q.2	(a)	Define Snort.	03
	(b)	Differentiate between Stateful and Stateless firewalls.	04
	(c)	Explain Network Sniffers with suitable example.	07
		OR	
	(c)	Define NAT. Describe Port Forwarding with its types in detail.	07
Q.3	(a)	Explain Curl, OpenSSL and Stunnel.	03
	(b)	Define Password cracking and Brute force tools. Explain any one in brief.	04
	(c)	Describe DVWA. Explain SQL injection in DVWA with example in detail.	07
		OR	
Q.3	(a)	Explain Zed Attack Proxy.	03
	(b)	Explain following terms: 1. Datapipe 2. Fpipe 3.WinRelay 4.Traffic Probe	04
	(c)	Discuss the Web Vulnerability tools in detail.	07
Q.4	(a)	Define Digital Forensics.	03
	(b)	Explain types of Cyber Crimes.	04
	(c)	Explain IT Act, 2000. List out and discuss different sections under IT Act, 2000 in detail.	07
		OR	
Q.4	(a)	Define Incident Response.	03
	(b)	Discuss about Contaminants and Destruction of Data.	04
	(c)	Discuss Attack vector. List out different types of Attack vector.	07
Q.5	(a)	Explain SQL Injection.	03
	(b)	Discuss Keyloggers and Spyware.	04
	(c)	Explain Virus, Worms, Trojan Horses and Backdoors in detail with example.	07
		OR	
Q.5	(a)	Explain Steganography with example.	03
	(b)	Explain Buffer Overflow attack in detail.	04
	(c)	Describe DOS and DDOS attack with suitable example.	07