

GUJARAT TECHNOLOGICAL UNIVERSITY

BE- SEMESTER-V (NEW) EXAMINATION – WINTER 2024

Subject Code:3154207

Date:20-12-2024

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 do you mean by Vulnerability? Explain any Two types of vulnerabilities.	03
	(b) What is Cybercrime? Explain the different categories of cybercrime in details.	04
	(c) Explain passive attacks and active attacks with respect to cyber criminals?	07
Q.2	(a) Explain DOS and DDOS Attack in detail	03
	(b) Difference between Stateless Vs Stateful Firewalls.	04
	(c) Explain SOCAT and NETCAT using suitable example in detail.	07
OR		
	(c) What is NAT? Describe port forwarding with its types in detail.	07
Q.3	(a) Explain Vulnerability Scanning	03
	(b) Justify the attack vector. List out different types of attack vector	04
	(c) What is a DVWA? Explain SQL injection in DVWA with example in detail.	07
OR		
Q.3	(a) Illustrate the aim and objective of Indian IT ACT 2000	03
	(b) Define Curl, OpenSSL and Stunnel.	04
	(c) Explain Metasploit and Nmap	07
Q.4	(a) What do you mean by Password cracking and brute force tools? Explain any one in brief	03
	(b) What is Keyloggers? Explain different types of Keyloggers	04
	(c) What is Digital Forensics? Explain the need of Digital Forensics.	07
OR		
Q.4	(a) Discuss Traditional Problems Associated with Computer Crime	03
	(b) Explain advantages and disadvantages of NAT	04
	(c) Explain Hydra in detail with example.	07
Q.5	(a) List four functions a backdoor can do to help the attacker	03
	(b) What is ZAP? Explain its uses and features in detail	04
	(c) What is Incident Response? Explain its process flow with appropriate diagram.	07
OR		
Q.5	(a) List three contemporary crimes?	03
	(b) Explain hacking and its types.	04
	(c) Explain Virus and Worms, Trojan Horses and Backdoors in detail.	07
