

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 Steganography 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
