

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-V(NEW) EXAMINATION – SUMMER 2022****Subject Code:3150714****Date:02/06/2022****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.

	<b>Marks</b>
<b>Q.1</b> (a) Explain the terms : Datapipe, Fpipe and WinRelay.	<b>03</b>
(b) What do you mean by Vulnerability? Explain types of vulnerabilities in detail with its example.	<b>04</b>
(c) What is Cybercrime? Explain the different categories of cybercrime in details.	<b>07</b>
<b>Q.2</b> (a) What is Metasploit? Explain payload types in short.	<b>03</b>
(b) What is Firewall? Explain its type with rules in detail.	<b>04</b>
(c) What is Nmap? Explain different functionality with its command in detail.	<b>07</b>
<b>OR</b>	
(c) What is Netcat? Explain steps for File Transfer process by using Netcat in detail.	<b>07</b>
<b>Q.3</b> (a) Write a short note on 'Curl'.	<b>03</b>
(b) Describe Snort in detail.	<b>04</b>
(c) What is NAT? Describe port forwarding with its types in detail.	<b>07</b>
<b>OR</b>	
<b>Q.3</b> (a) Write a short note on 'Nikto'.	<b>03</b>
(b) Explain DOS and DDOS Attack in detail.	<b>04</b>
(c) What is a DVWA? Explain SQL injection in DVWA with example in detail.	<b>07</b>
<b>Q.4</b> (a) Write a short note on Cyberspace.	<b>03</b>
(b) Explain Hydra in detail with example.	<b>04</b>
(c) What is XSS? Explain iframe and cookie vulnerability by using XSS in detail.	<b>07</b>
<b>OR</b>	
<b>Q.4</b> (a) Write a short notes on 'Digital Forensic'.	<b>03</b>
(b) What is ZAP? Explain its uses and features in detail.	<b>04</b>
(c) What do you mean by Brute force attack? Explain its type with example in detail.	<b>07</b>
<b>Q.5</b> (a) Write a short notes on 'Steganography'.	<b>03</b>
(b) Describe Phishing in detail with example..	<b>04</b>
(c) Explain IT-Act 2000 in brief. List out different sections under IT-Act 2000 and explain any four in detail.	<b>07</b>
<b>OR</b>	
<b>Q.5</b> (a) Explain the term: Buffer Overflow	<b>03</b>
(b) What do you mean by Hacker? Explain its type in detail.	<b>04</b>
(c) Explain Virus, worms, Trojan Horses and backdoors in detail with example.	<b>07</b>

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