

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-V (NEW) EXAMINATION – WINTER 2023****Subject Code:3150714****Date:05-12-2023****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 Network Sniffers with suitable example.	03
	(b) What is Cyber Crime? Explain different types of Cyber Crimes in brief.	04
	(c) What do you mean by Password cracking and brute force tools? Explain any one in detail.	07
Q.2	(a) Differentiate between Computer Viruses and Worms.	03
	(b) What are the Cyber Crime Scenarios and explain its applicability for Legal Sections?	04
	(c) Explain attacks on wireless network. How do you protect Wireless Network?	07
<b>OR</b>		
Q.3	(c) Define Denial-of-Service (DOS). How can we prevent DDOS attack?	07
	(a) What is Keyloggers? Explain different types of Keyloggers.	03
	(b) Explain Wireshark and how do we use Wireshark to find a password in network?	04
	(c) What is Hacking? Explain types of Hackers.	07
<b>OR</b>		
Q.3	(a) Difference between Stateless Vs Stateful Firewalls.	03
	(b) Define Snort? What is the difference between IPS and IDS?	04
	(c) Explain in details: Network Address Translation (NAT) with suitable diagram.	07
Q.4	(a) What is SQL injection?	03
	(b) List out different types of Traditional Problems Associated with Computer Crime.	04
	(c) Describe all HTTP utilities in details.	07
<b>OR</b>		
Q.4	(a) What is contemporary approach in criminology in the world of computer science?	03
	(b) Explain in details: Buffer Overflow.	04
	(c) Explain in details: Hacking, Attack vectors, Cyberspace and Criminal Behavior.	07
Q.5	(a) Explain Vulnerability Scanning.	03
	(b) What is OpenVas? Write advantage and disadvantage of OpenVas.	04
	(c) Describe credit card fraud that can be done through mobile or other wireless devices.	07
<b>OR</b>		
Q.5	(a) Explain passive attacks and active attacks with respect to cyber criminals?	03
	(b) What is Packet Filter Vs Firewall?	04
	(c) What is Incident Response. Explain its process flow with appropriate diagram.	07

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