		BE - SEMESTER-V (NEW) EXAMINATION – SUMMER 2021	
S	nhied	et Code:3150714 Date:07/09	9/2021
	•	et Name:Cyber Security	72021
	•	10:30 AM TO 01:00 PM Total Mar	·ks: 70
	struct		110. 70
	3	 Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. 	
	2	4. Simple and non-programmable scientific calculators are allowed.	Marks
Q.1	(a)	What is Vulnerability? Give small example	03
Ų.1	(b)	Write short note on Nmap and Netcat	03
	` ′	What is OpenVas? Write advantage and disadvantage of OpenVas.	07
	(c)	what is Open vas? write advantage and disadvantage of Open vas.	U/
Q.2	(a)	Write benefits of Metasploit	03
	(b)	Explain Following terms: 1. Datapipe 2. Fpipe 3.WinRelay 4.Traffic Probe	04
	(c)	Describe Network Sniffers with suitable example.	07
		OR	
	(c)	Explain different functionally provide by Wireshark.	07
Q.3	(a)	What is Packet Filter Vs Firewall?	03
	(b)	Difference between Stateless Vs Stateful Firewalls.	04
	(c)	Explain in details: Network Address Translation (NAT) with suitable diagram.	07
		OR	
Q.3	(a)	What is Port Forwarding?	03
	(b)	Write short note on Tcpdump and Windump.	04
	(c)	Describe all HTTP utilities in details.	07
Q.4	(a)	Brief out the Sqlmap.	03
	(b)	Give brief introduction of Brute-Force Attack.	04
	(c)	List down the Application Inspection tools. Explain any two in details.	07
	` ,	OR	
Q.4	(a)	What is Cyber Crime? Explain with example.	03
	(b)	Explain types of Cyber Crimes.	04
	(c)	Explain in details: Hacking, Attack vectors, Cyberspace and Criminal Behavior.	07
Q.5	(a)	What is Digital Forensics?	03
	(b)	List down and explain Contemporary Crimes.	04
	(c)	Describe DOS and DDOS attack with suitable example.	07
		OR	

Which types of attack possible on wireless Networks? Explain in details.

Q.5

(a)

(b)

(c)

What is Virus and Warms?

Explain in details: Buffer Overflow.

03

04

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GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-V (NEW) EXAMINATION – WINTER 2021					
Subi	Subject Code:3150714 Date:15/12/2021				
_		Name:Cyber Security			
Time:02:30 PM TO 05:00 PM Instructions: Total Marks: 70			70		
HISTI		Attempt all questions.			
		Make suitable assumptions wherever necessary.			
		Figures to the right indicate full marks.			
	4.	Simple and non-programmable scientific calculators are allowed.	MADIZC		
			MARKS		
Q.1	(a)	Explain Vulnerability Scanning.	03		
V	(b)	Define the term in briefly:	04		
		(i) Open Port Identification (ii) Banner Check			
	(c)	Describe Network Sniffers and Injection Tool. Explain any two injection tools in brief.	07		
0.2	(a)	Define Network Address Translation.	03		
Q.2	(a) (b)	What is Probe. Explain its different types.	03		
	(c)	Differentiate between Packet Filter and Firewall.	07		
	(C)	OR	07		
	(c)	Differentiate between Stateless and Stateful Firewalls.	07		
Q.3	(a)	Define Snort.	03		
•	(b)	What are the different usages of Network Sniffers? List out it.	04		
	(c)	List out various Application Inspection tools. Explain any two.	07		
		OR			
Q.3	(a)	How do you protect Wireless Network?	03		
	(b)	What do you mean by Password cracking and brute force tools? Explain any	04		
		one in brief.			
	(c)	What are the different kinds of Web Vulnerabilities Tools available? Explain any two in brief.	07		
Q.4	(a)	Define Denial-of-Service.	03		
Ų.Ŧ	(a) (b)	Justify the attack vector. List out different types of attack vector.	03		
	(c)	What is Firewall and illustrate its different types.	07		
	(0)	OR	07		
Q.4	(a)	Illustrate the aim and objective of Indian IT ACT 2000.	03		
	(b)	List out different types of Traditional Problems Associated with Computer	04		
	` ′	Crime.			
	(c)	What is Incident Response. Explain it process flow with appropriate diagram.	07		
Q.5	(a)	Define the term: (i)Trojan Horse (ii)Spyware	03		
	(b)	What is Destruction of Data. List out the different reason for it.	04		
	(c)	What are the Cyber-Crime Scenarios and explain its applicability for Legal	07		
		Sections?			

classification of Cyber Crime.

Define the Cyber Crime in your own word. Explain the different type of

Q.5 (a) What is Keyloggers? Explain different types of Keyloggers.(b) Differentiate between Computer Viruses and Worms.

(c)

03 04

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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. Marks (a) Explain the terms: Datapipe, Fpipe and WinRelay. 0.1 03 (b) What do you mean by Vulnerability? Explain types of 04 vulnerabilities in detail with its example. (c) What is Cybercrime? Explain the different categories of cybercrime **07** in details. Q.2 What is Metasploit? Explain payload types in short. 03 (a) **(b)** What is Firewall? Explain its type with rules in detail. 04 (c) What is Nmap? Explain different functionality with its command 07 in detail. OR (c) What is Netcat? Explain steps for File Transfer process by using 07 Netcat in detail. (a) Write a short note on 'Curl'. 0.3 03 **(b)** Describe Snort in detail. 04 (c) What is NAT? Describe port forwarding with its types in detail. **07** (a) Write a short note on 'Nikto'. 0.3 03 **(b)** Explain DOS and DDOS Attack in detail. 04 (c) What is a DVWA? Explain SQL injection in DVWA with example 07 in detail. (a) Write a short note on Cyberspace. 03 0.4 **(b)** Explain Hydra in detail with example. 04 (c) What is XSS? Explain iframe and cookie vulnerability by using 07 XSS in detail. OR 0.4 (a) Write a short notes on 'Digital Forensic'. 03 **(b)** What is ZAP? Explain its uses and features in detail. 04 (c) What do you mean by Brute force attack? Explain its type with **07** example in detail. Q.5 (a) Write a short notes on 'Steganography'. 03 **(b)** Describe Phishing in detail with example.. 04 Explain IT-Act 2000 in brief. List out different sections under IT-07 Act 2000 and explain any four in detail. **Q.5** (a) Explain the term: Buffer Overflow 03 **(b)** What do you mean by Hacker? Explain its type in detail. 04

example.

Explain Virus, worms, Trojan Horses and backdoors in detail with

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BE - SEMESTER-V (NEW) EXAMINATION - WINTER 2022

Subject	Cod	e:3150714 D	ate:04-01-2023
Subject	Nan	ne:Cyber Security	
•		· ·	otal Marks:70
Instructio	ns:		
1.	Atte	empt all questions.	
2.		ke suitable assumptions wherever necessary.	
		res to the right indicate full marks.	
4.	Sim	ple and non-programmable scientific calculators are allowed.	Marks
			WIAI'KS
Q.1	(a)	Describe Reconnaissance and Probe	03
	(b)		04
	(c)	Explain Metasploit and Nmap	07
Q.2	(a)	Describe NAT with example	03
~ ·-		Differentiate between Stateful and Stateless firewalls.	04
	(c)	Explain Injection tools like Tcpdump, Windump and Wir	
	(-)	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. OR	07
Q.3	(a)	Explain Curl, OpenSSL and Stunnel.	03
	(b)	-	04
	(c)	Explain the network monitoring tool Snort.	07
Q.4	(a)	Describe attack vector, cyberspace and IT act 2000.	03
	(b)	• •	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
C · · ·	(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 Stegnography 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

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GUJARAT TECHNOLOGICAL UNIVERSITY

BE – SEMESTER- V EXAMINATION-SUMMER 2023

Su	bject	Code: 3150714	Date: 23/06/2023	
Su	bject	Name: Cyber Security		
Tiı	Time: 02:30 PM TO 05:00 PM		Total Marks: 70	
Inst	truction	ns:		
	1.	Attempt all questions.		
	2.	Make suitable assumptions wherever neces	sary.	
	3. 4.	Figures to the right indicate full marks. Simple and non-programmable scientific controls	alculators are allowed	
	7.	Simple and non-programmable scientific co	Mai	rk
Q.1	(a)	Define System and Web Vulnerability.	0:	3
	(b)	Explain Metasploit and OpenVAS.	04	4
	(c)	Describe Nmap. Explain different fund detail.	ctionality with its command in 0'	7
Q.2	(a)	Define Snort.	0:	3
	(b)	Differentiate between Stateful and State	eless firewalls. 04	4
	(c)	Explain Network Sniffers with suitable	example. 0'	7
		OR		
	(c)	Define NAT. Describe Port Forwarding	with its types in detail. 0'	7
Q.3	(a)	Explain Curl, OpenSSL and Stunnel.	0:	3
	(b)	Define Password cracking and Brute f brief.	Force tools. Explain any one in 04	1
	(c)	Describe DVWA. Explain SQL injecti detail.	on in DVWA with example in 0'	7
		OR		
Q.3	(a)	Explain Zed Attack Proxy.	0.	3
•	(b)	Explain following terms: 1. Datapipe	2. Fpipe 3.WinRelay 4.Traffic 0 4	4
		Probe	•	
	(c)	Discuss the Web Vulnerability tools in	detail. 0'	7
Q.4	(a)	Define Digital Forensics.	03	3
	(b)	Explain types of Cyber Crimes.	04	4
	(c)	Explain IT Act, 2000. List out and discu	uss different sections under IT 0'	7
		Act, 2000 in detail.		
0.4	(-)	OR	0′	,
Q.4	(a)	Define Incident Response. Discuss about Contaminants and Destru	oction of Data. 03	
	(b)	Discuss about Containmants and Destru	ection of Data.	•
	(c)	Discuss Attack vector. List out different	t types of Attack vector. 0'	7
Q.5	(a)	Explain SQL Injection.	03	
	(b)	Discuss Keyloggers and Spyware.	04	
	(c)	Explain Virus, Worms, Trojan Horses example.	and Backdoors in detail with 0'	7
		OR		
Q.5	(a)	Explain Steganography with example.	0:	3
	(b)	Explain Buffer Overflow attack in detail	l. 0 4	4

Describe DOS and DDOS attack with suitable example.

(c)

BE - SEMESTER-V (NEW) EXAMINATION - SUMMER 2024

Subject Code:3150714 Date:16-05-2024

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) (b)	Write sort note on Indian IT ACT 2000. What is the difference between Threat, Vulnerability, and Risk and Computer Virus?	03 04
	(c)	What is the need of Demilitarized Zone (DMZ)? Explain with example.	07
Q.2	(a)	Define the term in briefly: (i) Open Port Identification (ii) Banner Check	03
	(b)	What is Probe. Explain its different types.	04
	(c)	List and explain types of Network Sniffer. List Network Sniffers and Injection tools.	07
		OR	
	(c)	Explain Ettercap and Hping Kismet.	07
Q.3	(a)	What do you mean by Cyber Crime? How do you relate it with Hacking?	03
	(b)	Explain Traditional Problems Associated with Computer Crime.	04
	(c)	What is firewall? Explain three main type of firewall. OR	07
Q.3	(a)	How ZAP proxy works? Explain with suitable example.	03
Q.S	(b)	What do you mean of contaminants and destruction of data? Explain it.	04
	(c)	Explain Digital Forensics life cycle in detail.	07
Q.4	(a)	Explain Curl, OpenSSL and Stunnel.	03
	(b)	Explain Wireshark and how do we use Wireshark to find a password in network?	04
	(c)	What is Netcat? Explain steps for File Transfer process by using Netcat in detail.	07
		OR	
Q.4	(a)	What is Metasploit? Explain payload types in short.	03
	(b)		04
	(c)	What is Nmap? Explain different functionality with its command in detail.	07
Q.5	(a)	What is Brute-Force Attack? How it can be prevented?	03
	(b)	Justify the attack vector. List out different types of attack vector.	04
	(c)	Explain how SQL Injection attacks can be prevented.	07
		OR	
Q.5	(a)	What is Keyloggers? Explain different types of Keyloggers.	03
	(b)	Explain L0htcrack, HTC-Hydra, Pwdump.	04
	(c)	Explain DVWA and Web goat.	07

Seat No.:	Enrolment No.

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
		OR	
	(c)	Define Denial-of-Service (DOS). How can we prevent DDOS attack?	07
Q.3	(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
		OR	
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
		OR	
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
		OR	
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 it process flow with appropriate diagram.	07
