



BRAINWARE UNIVERSITY

Term End Examination 2023-2024
Programme – B.Sc.(ANCS)-Hons-2020/B.Sc.(ANCS)-Hons-2021
Course Name – Hacking Techniques, Tools and Incident Handling
Course Code - BNCSC601
(Semester VI)

	Marks: 60	Time : 2:30 Hours
[T	he figure in the margin indicates full marks. Can own words as fa	didates are required to give their answers in their ras practicable.]
	Anal, skig network faiths for exhaustors	
	Grou	
	(Multiple Choice Type Question) 1 x 15=15	
1.	Choose the correct alternative from the following:	
(i)	Choose the benefits of Ethical Hacking.	
(ii)	a) Improved Security.c) Better Compliance with Regulations.Select that active attacks and compromises will	b) Reduced Cost of Breaches. d) All of these. ll be identified by
(iii)	a) Using Antivirus Software c) Monitoring Network Traffic Choose the cybercrime annotation.	b) Conducting Penetration Testing d) All of these
(iv)	a) Hacking for Personal Gain.c) Hacking to Cause Harm.Show the potential risks of performing foot principles.	b) Hacking to Improve Security.d) All of these.inting on a live system.
	a) None, as Foot Printing is a non-invasive process.	b) System instability or downtime.
(v)	c) Increased network performance. Classify the difference between Active and Pas	d) Enhanced system security. ssive information gathering.
	a) Active information gathering requires the use of specialized tools while Passive information gathering does not	b) Passive information gathering involves interacting with the target system while Active information gathering does not
	c)	d) Passive information gathering is performed
	Active information gathering is faster than Passive information gathering	without the knowledge of the target system while Active information gathering is performed with the knowledge of the target system

system

b) By launching a DoS attack against the target

(vi) Classify the information gathered during the foot printing phase to gain unauthorized

access to a target system.

the Foot Printing phase

a) By exploiting vulnerabilities found during

 c) By using social engineering techniques to trick system users into revealing sensitive 	d) By deleting critical system files	
information (vii) Show which methods would be most effective	for conducting foot printing on a wireless	
 a) Using packet sniffers to capture network traffic. 	b) Performing a port scan on the wireless router. The long a vulnerability scanner to detect	
 c) Conducting a DNS lookup on the wireless router. 	weaknesses in the wireless network.	
router. (viii) Choose the characteristics of a good vulnerab	b) Accurate and reliable.	
 a) Easy to use and configure. c) Flexible and customizable. (ix) Classify the primary goal of vulnerability man 	d) All of these. agement.	
 a) Detect and remediate vulnerabilities c) Monitor network traffic for attacks 	b) Secure the perimeter of the networkd) Identify and report vulnerabilities	
(x) Choose two types of system hacking.	b) Internal and external.	
a) Passive and active. c) Remote and local. (vi) Find the first step in the backing process	d) Host-based and network-based.	
(xi) Find the first step in the hacking process.	b) Identifying the target system.	
 a) Gaining access to the target system. c) Conducting reconnaissance of the target system. 	d) Analyzing network traffic for vulnerabilities.	
(xii) Identify the purpose of a keystroke logger.	La	
a) A tool to guess passwords.	b) A tool to capture keystrokes.d) A tool to scan for vulnerabilities in the	
 A tool to generate secure passwords. 	system.	
(xiii) Identify the best way to remove a keystroke I	logger.	
a) By reinstalling the operating system.	b) By disabling the device driver.	
c) By deleting the executable file.	 d) By running an anti-malware program on the system. 	
(xiv) Show the difference between black-box and	white-box testing.	
 a) Black-box testing is for network security, white-box testing is for system security. 	 b) Black-box testing is for system security, white-box testing is for network security. 	
 Black-box testing is a manual process, white-box testing is an automated process 	 d) Black-box testing is for testing third-party software, white-box testing is for in-house software. 	
(xv) Choose a recommended countermeasure ag	gainst insider attacks.	
a) Implementing strong passwordsc) Educating employees on security	b) Using multi-factor authenticationd) Blocking all incoming traffic	
G	roup-B	
(Short Answe	er Type Questions) 3 x 5=15	
2. Name some ethical issues that are related to co	ybercrime and hacking. (3)	
3. Explain the importance of Foot Printing and Re		
Create a plan that includes the necessary resourceonnaissance and footprinting.		
5. Explain the Phishing Attacks.	(3)	
Differentiate between backdoors and trojans.	(3)	
D	OR (2)	
Describe the significance of incident handling to and integrity of data.	for preserving the availability, confidentiality, (3)	

Group-C (Long Answer Type Questions) 5 x 6=30 7. Describe how the mindset of hackers influences cybersecurity. (5) 8. Discuss the various types of viruses. (5) 9. Explain the role of IDS, IPS, and honeypots in incident handling. (5) 10. Explain BOTs/BOTNETs. (5) 11. Summarize the types of social engineering attacks. (5) 12. Explain strategies for preventing cyber attacks and mitigating their impact. (5) Explain a countermeasure plan to prevent trojan attacks. (5)