

8. What is the purpose of UBA macros in offensive security testing?	1	3	2	1
(A) To create payloads for exploitation				
(B) To perform network reconnaissance				
(C) To brute force passwords				
(D) To automate tasks in Microsoft office applications				
9. What technique is utilized to run shell code through dotnet payloads?	1	3	3	5
(A) VBA shell code runner				
(B) Power shell shellcode runner				
(C) DOTNET-TO-JSCRIPT				
(D) JSCRIPT payload execution				
10. Which payload execution technique requires both stages of the payload to be sent in the same request?	1	2	3	1
(A) Staged payload				
(B) Non-staged payload				
(C) Reverse payload				
(D) Bind payload				
11. What is the primary benefit of utilizing power shell for offensive security testing?	1	3	3	1
(A) Powershell is easy to use and requires no programming skills				
(B) Powershell scripts can be used to execute malicious commands				
(C) Powershell is cross-platform and can be used on windows linux and mac OS				
(D) Powershell is faster than other scripting languages				
12. What is the method used to run harmful code in a genuine process?	1	2	3	1
(A) Process injection				
(B) DLL injection				
(C) Reflective DLL injection				
(D) Classic DLL injection				
13. What is the primary purpose of antivirus software?	1	2	4	1
(A) To prevent all types of cyber attacks				
(B) To detect and remove malware				
(C) To improve the performance of the system				
(D) To encrypt all files on the system				
14. What is the name of the process injection attack type that injects code into a remote process among the following options?	1	2	4	1
(A) Code injection				
(B) Thread injection				
(C) Remote injection				
(D) Process DLL injection				
15. Which of the following is an example of a process injection attack?	1	3	4	1
(A) SQL injection				
(B) Cross-site scripting (XSS)				
(C) Dynamic-link library (DLL) injection				
(D) Man-in the middle (MITM) attack				
16. Pick the rationale behind identifying the antivirus signature from a flagged file?	1	3	4	1
(A) To delete the file				
(B) To white list the file				
(C) To block the file				
(D) To rename the file				
17. What role do encoders play in offensive security testing?	1	2	5	1
(A) To encrypt data				
(B) To compress data				
(C) To encode payloads to avoid detection by antivirus software				
(D) To decode payloads on the target system				

18. What objective is pursued through a windows credentials attacks?	1	2	5	1
(A) To gain access to sensitive information stored on the target system				
(B) To delete files on the target system				
(C) To encrypt data				
(D) To compress data				
19. What objective is aimed for an applocker bypass attack?	1	2	5	5
(A) To bypass antivirus detection				
(B) To execute payloads on the target system				
(C) To gain access to sensitive information stored on the target system				
(D) To bypass applocker policies and run unauthorized programs				
20. What role does an encoder serve in the development of malware?	1	3	5	1
(A) To encrypt the payload				
(B) To obfuscate the code				
(C) To bypass a firewall				
(D) To create a rootkit				

PART – B (5 × 4 = 20 Marks)
Answer ANY FIVE Questions

	Marks	BL	CO	PO
21. What are reconnaissance attacks?	4	2	1	1
22. Difference between the red team and the blue team.	4	3	1	5
23. Explain the process of payload creation with metasploit.	4	3	2	5
24. Difference between staged and nonstaged metasploit payload.	4	3	2	5
25. What is process injection in malware analysis?	4	2	3	1
26. What is the difference between process hollowing and process injection?	4	3	4	1
27. Define applocker and technique to bypass it.	4	2	5	5

PART – C (5 × 12 = 60 Marks)
Answer ALL Questions

28. a. Explain in detail the types of penetration testing and its testing style.	12	3	1	1
(OR)				
b. Explain in detail for the following		3	1	1
(i) Windows API	6			
(ii) Services functions and routines in windows operation system	6			
29. a. Explain the HTML smuggling attack used by downloaders and how it can be used to bypass security measures, ways to prevent hem.	12	4	2	5
(OR)				
b. Explain the metasploit framework and its role in penetration testing and ethical hacking.	12	4	2	5