

Hall Ticket Number:

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Code No. : 17254 N/O

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS), HYDERABAD

Accredited by NAAC with A++ Grade

B.E. (C.S.E. & AIML) VII-Semester Main & Backlog Examinations, Dec.-23/Jan.-24

Cyber Security (PE-III)

Time: 3 hours

Max. Marks: 60

Note: Answer all questions from Part-A and any FIVE from Part-B

Part-A (10 × 2 = 20 Marks)

Q. No.	Stem of the question	M	L	CO	PO
1.	According to National Information Assurance Glossary (NIAG) what is the definition of authentication?	2	1	1	1,2
2.	What is Window Messaging?	2	1	1	1,2
3.	List the components Pay-per-click business model.	2	4	2	1,2
4.	What is the impact of Click Fraud Motivations in cyber security?	2	1	2	1,2
5.	How Malicious PDF Files affect the security?	2	1	3	1,2
6.	What are Brute Force and Dictionary Attacks?	2	1	3	1,2
7.	What is the function of Rootkit tool.	2	1	4	1,2
8.	Summarize the Steps that spyware creators take to make money.	2	3	4	1,2
9.	Why memory forensics is crucial to handle malware incidents in cyber world?	2	1	5	1,2
10.	List the commands used in volatile software.	2	1	5	1,2
Part-B (5 × 8 = 40 Marks)					
11. a)	Explain Cipher block chaining mode encryption.	4	2	1	1,2
b)	Summarize the hierarchical structure of the domain name system with a neat sketch and explain the process of resolving www.vce.ac.in.	4	3	1	1,2
12. a)	Explain Centralized botnet infrastructures with neat sketch.	4	2	2	1,2
b)	Discuss about secure shell Tunneling Techniques.	4	4	2	1,2
13. a)	Write short notes Integer Overflow Vulnerabilities.	4	1	3	1,2
b)	Explain impact of Misdirection, Reconnaissance, and Disruption Methods in Cross-Site Scripting (XSS).	4	2	3	1,2

Contd... 2

14. a)	Elaborate on the visual representation of the token-kidnapping process.	4	3	4	1,2
b)	What is role of service descriptor table? Explain in detail.	4	2	4	1,2
15. a)	Write short notes on Intrusion Detection Systems	4	1	5	1,2
b)	Explain honeynet infrastructure.	4	2	5	1,2
16. a)	Analyze the working process of RSA.	4	4	1	1,2
b)	Explain the most common SMS phishing with suitable sketch.	4	2	2	1,2
17.	Answer any <i>two</i> of the following:				
a)	Explain an alphanumeric shellcode.	4	2	3	1,2
b)	Explain bootstrap startup algorithm.	4	2	4	1,2
c)	Passive analysis is the behavioral malicious code analysis ---justify the statement.	4	4	5	1,2

M : Marks; L: Bloom's Taxonomy Level; CO; Course Outcome; PO: Programme Outcome

i)	Blooms Taxonomy Level - 1	30%
ii)	Blooms Taxonomy Level - 2	40%
iii)	Blooms Taxonomy Level - 3 & 4	30%
