Roll No.												

PRESIDENCY UNIVERSITY

BENGALURU

End - Term Examinations – May / June 2026

Date: 23- 05- 2026 **Time:**09:30am – 12:30pm

School: SOCSE	**Program:** B.Tech.	
Course Code : CCS2504	**Course Name:** Ethical Hacking	
Semester: IV	**Max Marks**: 100	**Weightage**: 50%

CO - Levels	CO1	CO2	CO3	CO4	CO5
Marks	26	24	26	24	

Instructions:

(i) Read all questions carefully and answer accordingly.

(ii) Do not write anything on the question paper other than roll number.

Part A

Answer ALL the Questions. Each question carries 2marks. **10Q x 2M=20M**

1.	Define the term Risk in ethical hacking	**2 Marks**	**L1**	**CO1**
2.	Differentiate between Pen testing and Vulnerability assessment	**2 Marks**	**L1**	**CO1**
3.	Why ethical hacking is important to enhance the security of an organization?	**2 Marks**	**L1**	**CO1**
4.	What is the use of ipconfig and traceroute commands?	**2 Marks**	**L1**	**CO2**
5.	What are the major Linux-based distributions?	**2 Marks**	**L1**	**CO2**
6.	What is passive reconnaissance? Give example.	**2 Marks**	**L1**	**CO3**
7.	What is footprinting? List the tools used for footprinting.	**2 Marks**	**L1**	**CO3**
8.	What is DNS Cache Snooping?	**2 Marks**	**L1**	**CO3**
9.	Define Port scanning. List the types of port scanning.	**2 Marks**	**L1**	**CO4**
10.	What are the main goals of Target Enumeration?	**2 Marks**	**L1**	**CO4**

Part B

Answer the Questions. **Total Marks 80M**

11.	**a.**	Explain the type of hackers with proper example and phases of ethical hacking with neat diagram.	**20 Marks**	**L2**	**CO1**
		Or			
12.	**a.**	With the growing complexity of IT infrastructures, penetration testing has become essential for proactive defense. Explain the major types of penetration testing (such as network, web application, social engineering, wireless, and physical) and provide practical examples of how each type uncovers different vulnerabilities. Conclude with your observations on the importance of combining these approaches.	**20 Marks**	**L4**	**CO1**
13.	**a.**	Compare any two major Linux operating system distributions in terms of kernel structure, usage and features with neat illustration	**20 Marks**	**L4**	**CO2**
		Or			
14.	**a.**	You are a system administrator at Presidency University. The cybersecurity lab systems are running different Linux distributions (Ubuntu, Kali, Fedora). You are asked to: a) Identify which distribution suits best for network security training. b) Standardize the file system for lab exercises. c) Configure all systems to have a consistent screen resolution for VMs. d) Document key Linux commands students should know before starting penetration testing.	**20 Marks**	**L3**	**CO2**
15.	**a.**	A company's website is publicly accessible, and you are hired to perform reconnaissance without directly interacting with their servers. Explain how you would perform passive information gathering. What tools and techniques would you use, and what kind of data would you expect to collect? How can this information be useful in later stages?	**20 Marks**	**L3**	**CO3**
		Or			
16.	**a.**	Describe the techniques and tools used for SMTP and SNMP enumeration.	**20 Marks**	**L2**	**CO3**
17.	**a.**	You are conducting a reconnaissance phase for a penetration test. Describe the sequence of host discovery, service enumeration and port scanning techniques you would use, the tools for each step, how to interpret results.	**20 Marks**	**L3**	**CO4**
		Or			
18.	**a.**	Explain in detail about the goals, steps and tools for vulnerability assessment	**20 Marks**	**L2**	**CO4**