



# PRESIDENCY UNIVERSITY

BENGALURU

Roll No.														
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## Mid - Term Examinations – October 2025

Date: 11-10-2025

Time: 11.45am to 01.15pm

School: SOIS	Program: BCA	
Course Code: CSA3050	Course Name: Ethical Hacking	
Semester: V	Max Marks: 50	Weightage: 25%

CO - Levels	C01	C02	C03	C04
Marks	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.

5Q x 2M=10M

1	Summarize ethical hacking and explain its scope.	2 Marks	L2	C01
2	Classify the different types of hackers and their roles.	2 Marks	L2	C01
3	Illustrate the phases of ethical hacking.	2 Marks	L3	C01
4	Classify the key differences between viruses, worms, and Trojans.	2 Marks	L2	C02
5	Describe how ransomware functions and its impact on users.	2 Marks	L2	C02

## Part B

Answer the Questions.

Total Marks 40M

6.	a.	Explain the difference between black-hat, white-hat, and grey-hat hackers.	10 Marks	L2	C01
	b.	Demonstrate and compare different types of malwares and their effects.	10 Marks	L3	C01
Or					
7.	a.	Describe the ethical hacking techniques, approaches to find vulnerabilities in a web application.	10 Marks	L2	C01
	b.	Illustrate the working of different password cracking techniques.	10 Marks	L3	C01

8.	a.	Demonstrate how to use antivirus software to detect and remove malware.	10 Marks	L3	C02
	b.	Explain the working mechanism of a Trojan horse and how it differs from a virus.	10 Marks	L2	C02
Or					
9.	a.	Illustrate the lifecycle of a computer virus from infection to execution.	10 Marks	L3	C02
	b.	Explain how to detect and prevent malware infections also describe what does malware do?	10 Marks	L2	C02