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Bengaluru

Mid Term Examinations - October 2026

Date: 06/10/2026 **Time:** 11:45 AM - 01:15 PM

Course Code: CCS2510 **Course Name:** Security Assessment and Testing

Semester: Fifth Semester **Max. Marks:** 50 **Weightage:** 50%

CO - Levels	CO1	CO2
Marks	44	46

PART A: Answer Following Questions. 10 M

Q.N.	Questions	M	CO	BT
1	What is meant by the "gray area" in cybersecurity ethics?	2	CO1	BT2
2	List any two common social engineering attacks.	2	CO1	BT2
3	State two common ways an unauthorized person may attempt to gain physical access to a building.	2	CO2	BT3
4	Mention two controls that can help defend against insider attacks.	2	CO2	BT3
5	What is Meterpreter in the context of Metasploit?	2	CO2	BT3

PART B : Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
6	Explain the major phases and objectives of a vulnerability assessment and penetration test.	10	CO1	BT2
7	Explain why understanding an organization's potential attackers is important in ethical hacking. Discuss how this knowledge supports defensive security.	10	CO1	BT2

PART C: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
8	Explain common social engineering attacks and discuss why human behavior is an important component of cybersecurity.	10	CO1	BT2
9	Explain the major defensive measures organizations can adopt to protect employees against social engineering attacks.	10	CO1	BT2

PART D: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
10	An organization wants to evaluate its building's physical security. Apply a physical penetration-testing methodology to assess the security of entry points, restricted areas, and sensitive assets.	10	CO2	BT3
11	A company has multiple offices containing sensitive equipment and information. Apply physical-security assessment concepts to recommend appropriate controls against unauthorized physical access.	10	CO2	BT3

PART E: Answer Any 1 Following Questions. 10 M

PTO (Please Turn Over)

Q.N.	Questions	M	CO	BT
12	A security team discovers a potentially vulnerable application on an authorized test system. Explain how Metasploit can be applied in a controlled environment to validate and assess the vulnerability.	10	CO2	BT3
13	Explain how Meterpreter and Metasploit can be incorporated into an authorized penetration-testing exercise to assess the security posture of a test environment.	10	CO2	BT3